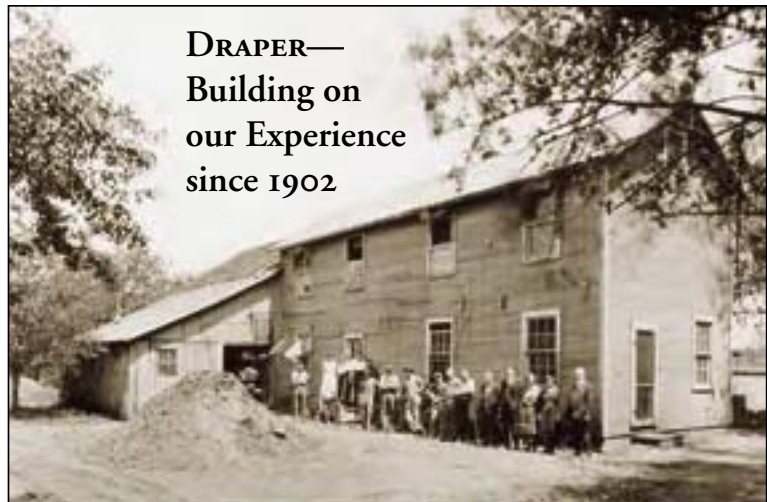
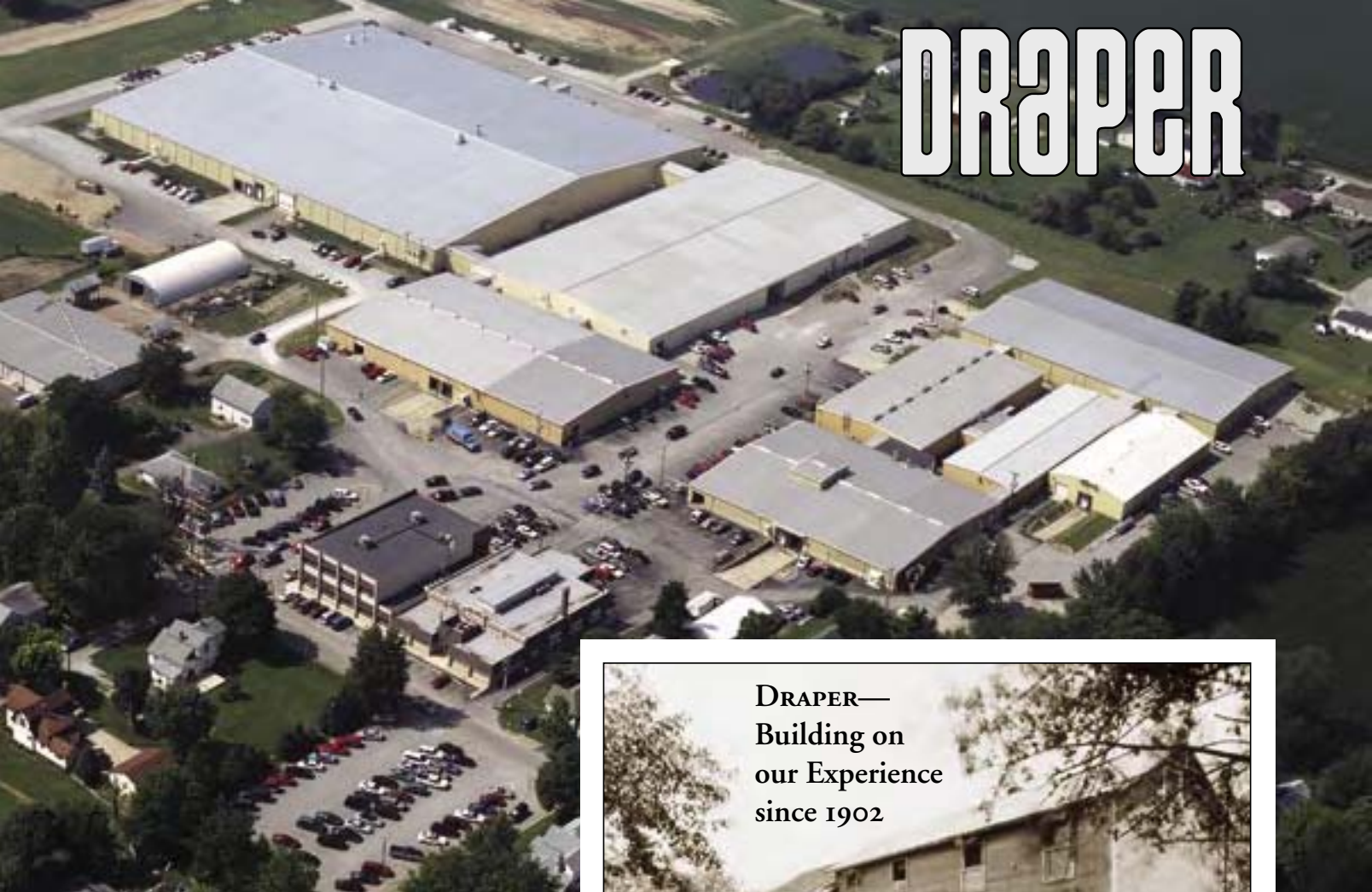


# DRAPER



**DRAPER—  
Building on  
our Experience  
since 1902**

The Luther O. Draper Shade Company, now known as DRAPER, INC., was founded in Spiceland, Indiana, in 1902. Under the ownership and management of Mr. Draper's descendants, his simple and straightforward business philosophy continues today: make a quality product and offer it at a reasonable price.

Those products include projection screens, rear projection display systems, video projector mounts and lifts, plasma and LCD display mounts and lifts, presentation easels, window coverings and gymnasium equipment.

In addition to its Indiana facility, DRAPER has manufacturing operations in Ohio, China and Sweden, and sales offices in California and the United Kingdom. DRAPER products are sold to dealers and shipped throughout the United States and to more than 100 countries. DRAPER's dedication to innovation is one reason its workforce has never experienced a layoff.

This catalog features DRAPER's full line of products for visual communication, which includes—

● Ceiling-Recessed Motorized Screens.....	6-13
● Wall-Mounted Motorized Screens .....	14-19
● Video Projector Lifts .....	20-24
● Controls for Screens and Lifts .....	25
● SMS Mounts for LCD/DLP Projectors .....	26-30
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● Easels .....	65-68

# Selecting the Right Projection Screen

DRAPER manufactures the finest and most complete line of projection screens in the world. We want to help you incorporate these screens into the most effective presentation systems. Planning a projection system involves several steps: choosing the screen size, viewing surface, screen model and control system. We've provided detailed recommendations to help with these important decisions.

## Projection Screen Size Selection

One of the most important decisions in screen selection is to determine the correct size of screen based upon—

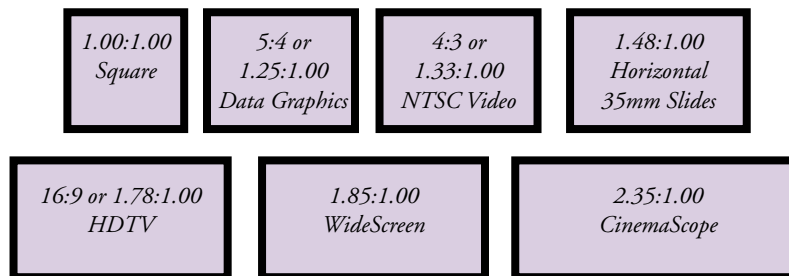
1. The dimensions of the audience area.
2. The projection format(s) to be used.

Other key considerations—

- **Audience Area**—The goal is to make the screen large enough so those in the back row can read the subject matter easily, but not so large as to overwhelm the closest viewer.
- **Height**—Use the following formulas for calculating screen height for maximum legibility. For 4:3 NTSC moving video and entertainment, screen height should be at least  $\frac{1}{6}$  the distance from the screen to the furthest seat; for charts and data, as in a conference or lecture room, use  $\frac{1}{4}$ ; for complex graphics found in a command/control center, use  $\frac{1}{2}$ . For HDTV projection, screen height should equal or exceed  $\frac{1}{3}$  the distance from the screen to the optimum seat.
- **Width**—Screen width is generally determined by the height of the screen and the projection formats to be used.
- **Ceiling Height**—The bottom of the screen should be approximately 40-48" above the floor in a room with a level floor and several rows of seats. In rooms with theatre seating or only one or two rows, the bottom of the screen should usually be 24-36" above the floor. Evaluate any barriers, and try to make sure that the lower part of the screen will be visible from all seats. Extra drop may be required to position the screen at a comfortable viewing level in a room with a high ceiling.
- **Projection Format**—Once you have determined the correct size of screen based upon the audience area, that size may be modified based upon the projection equipment. If the screen will only be used with one type of projector (NTSC video, HDTV, etc.), it is easy to determine the exact screen dimensions based upon its projection format.

## Common Projection Formats

*Note:* Vertical presentation of a slide reverses its aspect ratio. To allow this, use a 1:1 aspect ratio for any type slide.



Most models of DRAPER screens are offered in both audio visual and NTSC video formats. Many models are also offered in HDTV and WideScreen formats. The differences between these formats are described below. We are glad to provide any DRAPER screen in the size and projection format of your choice, up to and including the largest published size.

Audio visual (or AV) format screens accommodate a variety of projector types and range from square to wide horizontal in aspect ratio. **AV format screens** are described in terms of height x width, and are furnished without black borders, although borders are optionally available. Screens with TAB TENSIONING SYSTEM always include black borders and 12" of black drop at the top.

**NTSC video format screens**, on the other hand, are specifically designed for use with video/data projectors. Their format is strictly defined as a 4:3 rectangle, and the size is usually described in terms of a nominal diagonal. Conventional models of NTSC format screens are furnished with black borders to frame the image on all four sides. Tab-tensioned screens include black borders at the sides and bottom, and 12" of black drop at the top. **HDTV format (16:9)** is designed for high-definition television projection, and **WideScreen format (1.85:1)** is suitable for letterboxed video images. Data graphics format (5:4) projectors more accurately reproduce the image from a 1024 x 1280 pixel computer screen. Data graphics format screens are available in any model by quotation.

## How to Calculate a Custom Size

DRAPER also manufactures custom size screens to meet your specification. Virtually any size up to the maximum shown for a given model is available. If you need to calculate a custom size, these formulas may be useful (D = exact diagonal; H = image area height; W = image area width):

### 4:3 NTSC Video

$$\begin{aligned} H &= D \times .6 \\ W &= D \times .8 \\ D &= H \times 1.667 \\ D &= W \times 1.25 \end{aligned}$$

### 16:9 HDTV

$$\begin{aligned} H &= D \times .49 \\ W &= D \times .87146 \\ D &= H \times 2.04 \\ D &= W \times 1.1475 \end{aligned}$$

### 1.85:1 WideScreen

$$\begin{aligned} H &= D \times .4762 \\ W &= D \times .881 \\ D &= H \times 2.1 \\ D &= W \times 1.135 \end{aligned}$$

### 2.35:1 CinemaScope

$$\begin{aligned} H &= D \times .3915 \\ W &= D \times .92 \\ D &= H \times 2.554 \\ D &= W \times 1.0868 \end{aligned}$$

### 5:4 Data Graphics

$$\begin{aligned} H &= D \times .625 \\ W &= D \times .781 \\ D &= H \times 1.601 \\ D &= W \times 1.281 \end{aligned}$$

# Which Surface? *Textile Backed vs 100% Vinyl*

**Textile Backed Screen Surfaces**—A reflective surface laminated to a woven textile base. The screen surface hangs suitably flat because of the stability of the material and the weight of the bottom dowel. Good for all types of projection. Commonly used for single lens video projection, as well as for CRT video and data-graphics projection.

**Fiberglass Matt White**—The standard to which all other screen surfaces are compared. Matt white vinyl reflective surface laminated to tear-resistant woven fiberglass. A matt white surface diffuses projected light in all directions, so image can be seen from any angle. Provides accurate color rendition as well as superior clarity. Recommended for use with all high light output projection devices. Requires control of ambient light in the audience area. Washable, flame and mildew resistant. Seamless in virtually all standard sizes.

**Glass Beaded**—Spherical glass beads embedded in surface provide brighter on-axis viewing than matt white, within a narrower viewing cone. All glass beaded surfaces have some loss of clarity and perform best with table-mounted projectors. Flame and mildew resistant, cannot be cleaned. Seamless in standard sizes through 10' high.

**High Contrast Grey**—Grey, textile-backed, surface offers excellent resolution while enhancing the blacks of LCD and DLP projected images, even as whites and lighter colors are maintained. Performs well in ambient light. Lower gain of 0.8 allows use with even the brightest projectors. Available on most non-tensioned motorized and manual screens; seamless in sizes up to 8' in height.

**AT1200 and AT Grey**—The most innovative and versatile acoustically transparent screen material. Similar in gain performance to matt white. Acoustical properties comparable to the finest speaker grille cloth. Washable, flame and mildew resistant. Available in sizes through 72" x 96" or 10' diagonal. AT1200 is white; AT GREY is grey for high contrast.

**100% Vinyl Materials**—These screen surfaces are tensioned vinyl with no backing. Draper offers motorized, crank-operated and permanently tensioned screens with built-in tensioning systems. Advantage—The surface is stretched perfectly flat, resulting in better picture quality. Flatness is always desirable and highly recommended for video or data-graphics projection.

**M1300**—The perfect matt white diffusing surface. Extremely broad light dispersion and spectral uniformity. Panoramic viewing angle and true color rendition. For use with any type of projector in rooms where the light level can be reasonably controlled. Washable.

**M2500**—A high-contrast front viewing surface with excellent resolution and high gain. For data-graphics projectors producing up to 1000 ANSI lumens. M2500 tolerates a higher ambient light level than most other front projection screen surfaces.

**HiDef Grey**—A grey front projection surface that provides excellent contrast and black reproduction with a low gain to handle today's super-bright projectors. The grey color enhances color contrast, black levels and allows for more ambient light in the audience area.

**Cineflex**—A neutral grey vinyl for rear projection. CINEFLEX has high resolution and excellent contrast, even in lighted rooms. For use with any type of projection equipment.

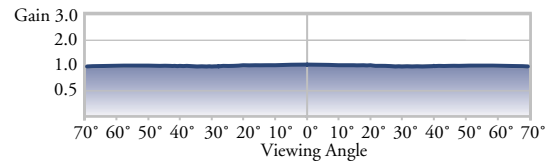
When selecting a front projection surface, several key factors need to be considered, including:

- **Gain**—a relative measure of a screen's reflectivity.
- **Contrast**—the ability to accurately reproduce and differentiate light and dark characters and backgrounds, or light and dark areas of an image.
- **Ambient light rejection properties**—the ability to perform well under normal to adverse audience lighting conditions.
- **Resolution**—the clarity of the projected image.
- **Uniformity**—the screen's performance when viewed from various points off the projection axis (both horizontally and vertically), and when the brightness of the center of the image is compared to the corners.
- **Aspect ratio**—the screen's height and width configuration, formatted for the desired projection source (NTSC video, HDTV, WideScreen, CinemaScope, overhead, slide or motion pictures).

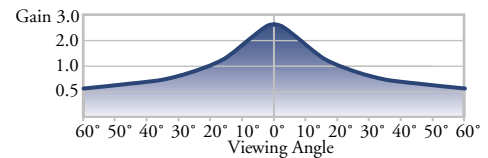
\*These charts depict gain values at various points, measured in degrees from projection axis. Gain is a measure of brightness as compared to a block of magnesium carbonate, which serves as a standard for gain of 1.0. These charts also help in judging uniformity. The flatter the curve in the portion of the viewing cone where viewers will be seated, the more consistent the image they will perceive. The quality of an image which the human eye perceives is primarily a function of gain, contrast, uniformity and resolution.

## Gain Charts\*

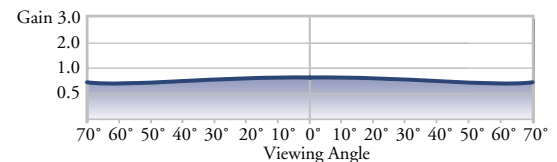
**Fiberglass Matt White & AT1200**



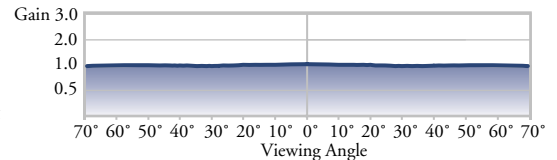
**Glass Beaded**



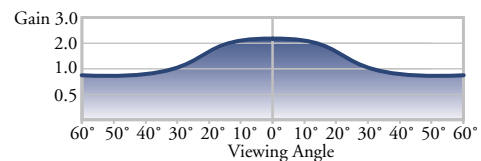
**High Contrast Grey & AT Grey**



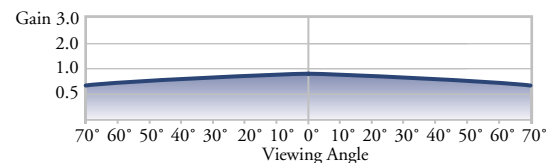
**M1300**



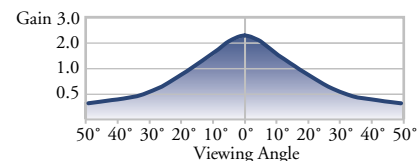
**M2500**



**HiDef Grey**



**Cineflex**



# Front Projection Screens Quick Reference—Their Surfaces and Features

Screen Model	Page Number	HC Grey, Fiberglass Matt White or Glass Beaded	M1300, M2500 or HiDef Grey	AT1200/AT Grey Acoustically Transparent	Cineflex Rear Vinyl	Operator (see key)	12" Black Drop Supplied	Tensioned Viewing Surface	Ceiling Closure	Sizes Over 12' wide
Access MultiView/Series E	6, 9	*		*		M	*			
Access MultiView/Series V	6, 9		*		*	M	*	*		
Access/Series E	6, 7	*		*		M	* <sup>4</sup>			*
Access/Series M	6, 47	*				SR	* <sup>4</sup>			
Access/Series V	6, 7		*		*	M	*	*		*
Access Sonata/Series E	6, 9	*		*		M	*			
Access Sonata/Series V	6, 9		*			M	*	*		
Ambassador	13	*				M			*	
Apex	47	*				SR	* <sup>4</sup>		*	
Artisan/Series E	15	*				M	* <sup>4</sup>			
Artisan/Series M	42	*				SR	* <sup>4</sup>			
Artisan/Series V	15		*			M	*	*		
Baronet	19	*				M	* <sup>4</sup>			
Cineperm	39		*	*	*	PT		*		*
Cinefold & Truss Cinefold	50-51		* <sup>1</sup>		*	P		*		*
Clarion	38		*	*	*	PT		*		
Consul	54	* <sup>2</sup>				P				
Diplomat & Diplomat/R	54	*				P				
Envoy	13	*				M	* <sup>4</sup>		*	
Evenroll	46	* <sup>2</sup>				Rope/Pulley				*
Luma	45	*				SR	* <sup>4</sup>			
Luma 2 & Luma 2/R <sup>2</sup>	43	*				SR	* <sup>4</sup>			
Onyx	37		*	*	*	PT		*		*
Paragon	12	* <sup>2</sup>				M				*
Piper	52	* <sup>3</sup>				P				
Premier	16		*		*	M	*	*		*
Premier/Series C	42		*		*	C	*	*		
RoadWarrior	53	*				P				
Rolleramic	12	*				M				*
Salara	18	*		*		M	* <sup>4</sup>			
Salara/Series M	46	*				SR	* <sup>4</sup>			
ShadowBox Clarion	40		*		*	PT		*		
Signature/Series E	10	*		*		M	* <sup>4</sup>		*	*
Signature/Series V	10		*		*	M	*	*	*	*
Silhouette/Series C	41		*		*	C	*	*		
Silhouette/Series E	14	*		*		M	* <sup>4</sup>			
Silhouette/Series M	41	*				SR	* <sup>4</sup>			
Silhouette/Series V	14		*		*	M	*	*		
Star	44	* <sup>3</sup>				SR				
Targa	17	*		*		M	* <sup>4</sup>			*
Traveller	53	*				P				
Ultimate Folding Screen	48-49		* <sup>1</sup>		*	P		*		*
Ultimate Access/Series E	6, 8	*		*		M	* <sup>4</sup>		*	
Ultimate Access/Series V	6, 8		*		*	M	*	*	*	
VScreen	44	* <sup>3</sup>				SR				
WrapAround Clarion	40		*			PT		*		

<sup>1</sup> FLEXIBLE MATT WHITE is the front projection viewing surface available.

<sup>2</sup> Not available with HIGH CONTRAST GREY.

<sup>3</sup> MATT WHITE only.

<sup>4</sup> Selected HDTV sizes of non-tensioned screens now included 12" black drop as standard.

For specific details, size and surface limitations, see the descriptions and charts on the referenced pages.

<b>Operator Key</b>
C = Crank
M = Motorized
P = Portable
PT = Permanently Tensioned
SR = Spring Roller

**Warranty**—All products in this catalog are warranted for one year against defects in materials and workmanship. Some products carry a longer warranty term: see product description. Defective products will be repaired or replaced, at Draper's option. Authorization required prior to return. Detailed warranty terms are available upon request.

# Access Concept

- Access/Series V, Series E & Series M
- Ultimate Access/Series V & Series E

*Case Now/Screen Later*—The ACCESS SERIES is the original “case now/screen later” screen. A DRAPER innovation, the essence of the ACCESS concept is a ceiling-recessed, extruded-aluminum headbox designed to be installed during construction of a facility. The screen itself (viewing surface attached to a roller) can either be furnished with the headbox or at any time thereafter.

The ACCESS SERIES is DRAPER’S thoughtful solution to the problems that have plagued projection screen buyers for years. Incorrect size of screen or aspect ratio, choice of surface and job site damage during construction—all can be avoided with the ACCESS. The screen itself installs in minutes, and the only tool you need is a hex key.

The ACCESS SCREEN SERIES is our most popular family of motorized screens. We’ve shortened the height of the case and redesigned the hanging brackets—making it easier to put the projection screen in just the right place.

## Access Case

### Easy Installation—Easy Access

It’s easy to see why the ACCESS is so popular. Designed with solutions in mind, the case features include:

- Redesigned hanging brackets that slide in channels on top of the case. Allows unlimited adjustment to avoid interference with structures above the ceiling. ①
- A pre-wired junction box inside left end (of audience side) and a pre-drilled cable exit hole on top. Cable leads are approximately 12”. ②
- Redesigned case with a 2” reduction in overall height. White flange around the perimeter of the case supports ceiling tile or trims out rough ceiling opening. ③
- “Pin connector” electrical connection of screen to internal junction box eliminates the need for tools. ④
- Bottom panel of the case forms a slot for fabric passage and is removable without tools for installation or replacement of screen. ⑤

The screen (motor-in-roller with fabric attached) comes with easy-to-install latching brackets. Latching brackets slide along a track inside the top of the case, so the case can accommodate different sizes of screens. A large case allows for maximum flexibility.

The ACCESS case may be ordered in advance of the screen or alone. The installation of a ceiling-recessed projection screen in the aftermarket may cost more than the screen itself, so a pre-installed ceiling-recessed housing adds real value. You can select, order and install the desired ACCESS SERIES screen at any later date.

*Bottom panel off for installation and maintenance*



*Screen up*



*Screen down*



### What If...

What if you know you want a ceiling-recessed screen, but you don’t know what projector (or projectors) will be used. Therefore, you don’t know the optimum size or aspect ratio of the screen, the optimum screen surface or whether tab tensioning is required.

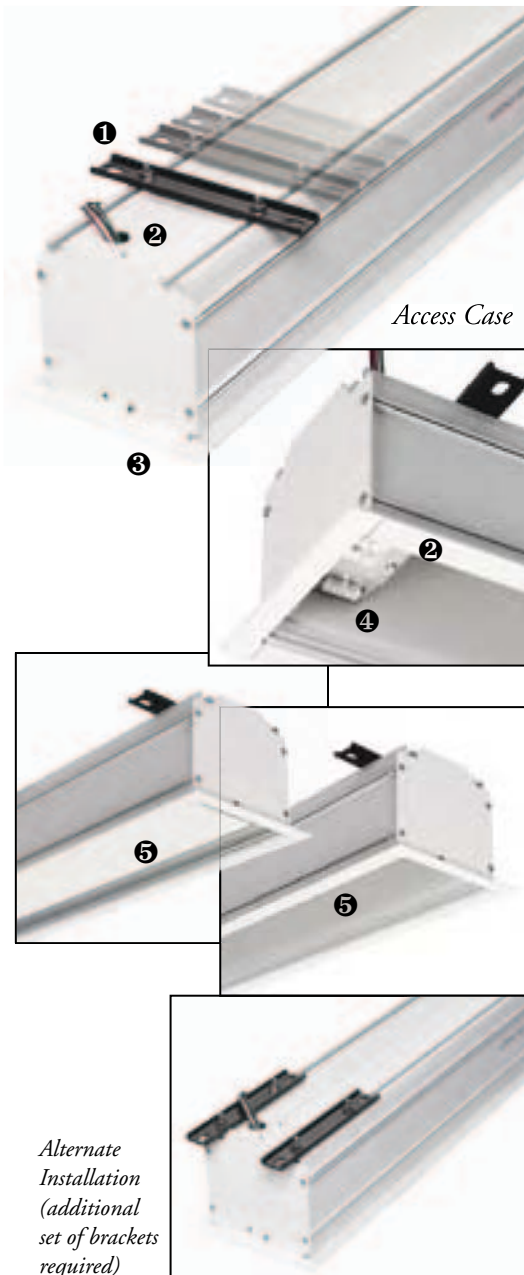
- ✓ *No problem with the Access—Order the case now. Just make sure it’s large enough to accept the largest screen you think you may need. Order the screen later, after the projector decision is made. Or let the occupant make the decision at a later date.*

What if technology changes? What if a new projection format is introduced, or DRAPER introduces a superior new screen surface?

- ✓ *No problem with the Access—It’s quick, easy and comparatively inexpensive to replace the screen in an Access with no extra electrical or ceiling work.*

What if you’re planning a facility and the room design is flexible, or the presentation rooms have not yet been determined?

- ✓ *No problem with the Access—Install an Access case in each room during construction and think about screen selection later. Adds great value to the facility.*



*Alternate Installation (additional set of brackets required)*

# Access Series

## Eliminates installation problems.

The ACCESS SERIES screens feature ceiling trim flanges, prewired junction box, and movable brackets for a smooth installation. The extruded aluminum case is plenum rated (UL approved for use in environmental air space). Case can also be installed in advance of screen: see page 6.

**Access/Series V**—Motorized screen available with the unparalleled performance of our TAB TENSIONING SYSTEM in M1300, M2500 and HiDEF GREY front projection surfaces, as well as the CINEFLEX rear projection surface. See page 11 for more on the benefits of TAB TENSIONING.

**Access/Series E**—Motorized screen with your choice of a conventional viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY or acoustically transparent AT1200 or AT GREY.

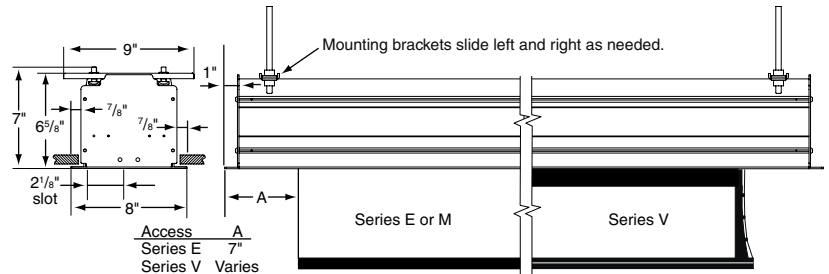
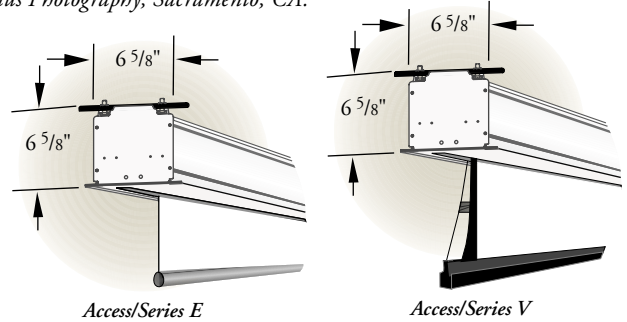
U.S. Patent Nos. 6,137,629; 6,421,175 and 6,532,109; Other patents pending.

### System Options

- **Extra Drop**—Additional drop is optional, either white or black. (White is standard for SERIES E in AV format. Black is standard for SERIES E in all other formats and for all SERIES V screens).
- **Black Masking Borders**—Borders are optional for SERIES E in AV format. Borders are standard for SERIES E in all other formats and for all SERIES V screens.
- **Control Options**—Refer to page 25. Controls may be built into case and will increase overall length of case.



Access/Series V projection screen in HDTV format and a Draper Revelation video projector lift at the Health Education and Conference Center at Memorial Medical Center, Sutter Gould Medical Foundation, Modesto, CA. Dealer: MediaWorks, Sacramento, CA. Photography: Ed Asmus Photography, Sacramento, CA.



Series E			Series V <sup>1</sup>			Series E				Series V <sup>1</sup>			
Size H x W	Case Length <sup>3</sup>	Net Wt. (lbs.)	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Case Length <sup>3</sup>	Net Wt. (lbs.)	Image Area H x W	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)
<b>Audio Visual Format</b>													
50" x 50"	64"	50	75"	60"	58	6'	42½" x 56½"	74"	55	42½" x 56½"	81½"	66½"	60
60" x 60"	74"	55	86"	71"	66	7'	50" x 66½"	84"	61	50" x 66½"	91½"	76½"	68
70" x 70"	84"	65	96"	82"	69	100"	60" x 80"	98"	71	60" x 80"	105"	91"	73
84" x 84"	98"	72	111¼"	84"	74	10'	69" x 92"	110"	82	72" x 96"	122"	108"	92
72" x 96"	110"	80	122"	96"	92	11'	78" x 104"	122"	96	78" x 104"	131¼"	116"	98
96" x 96"	110"	84	124¾"	109½"	92	150"	87" x 116"	134"	102	87" x 116"	143¼"	129½"	104
7' x 9'	122"	92	135¼"	120"	95	15'	105" x 140"	158"	108	108" x 144"	172¾"	158"	110
9' x 9'	122"	93	136¾"	122"	95	200"	118" x 158"	176"	114	118" x 58"	187¾"	173⅞"	135
8' x 10'	134"	97	148¾"	133½"	99	<b>HDTV Format (16:9)</b>							
10' x 10'	134"	107	150½"	135¾"	109	92"¹	45" x 80"	98"	74	45" x 80"	105"	90"	76
9' x 12'	158"	108	172¾"	158"	110	106"¹	52" x 92"	110"	78	52" x 92"	117"	102"	80
12' x 12'	158"	119	178½"	161½"	121	119"	58" x 104"	122"	82	58" x 104"	129"	115"	85
						133"	65" x 116"	134"	87	65" x 116"	142"	127"	89
						161"	79" x 140"	158"	104	79" x 140"	167¼"	152"	106
						184"	90" x 160"	178"	111	90" x 160"	187¾"	173⅞"	133
						<b>WideScreen Format (1.85:1)</b>							
						99"	47" x 87"	104"	75	47" x 87"	112"	97"	79
						108"	50" x 92"	110"	78	50" x 92"	117"	102"	80
						120"	56" x 104"	122"	80	56" x 104"	129"	115"	85
						132"	63" x 116"	134"	87	63" x 116"	142"	127"	89
						162"	76" x 140"	158"	104	76" x 140"	167¼"	152"	106
						182"	86½" x 160"	178"	111	86½" x 160"	187¾"	173⅞"	131

<sup>1</sup> All SERIES V screens and these SERIES E HDTV sizes include 12" black drop as standard.

<sup>2</sup> For SERIES V, additional drop and factory installed IVC-III or MCI will increase case and dowel length. Contact DRAPER if these dimensions are critical.

<sup>3</sup> Factory installed IVC-III will increase case length by 2½".

Complete Access Series specifications: [www.draperinc.com](http://www.draperinc.com)

# Ultimate Access

*With an independently motorized ceiling closure.*

The ULTIMATE ACCESS offers all the advantages of the ACCESS, *plus an independently motorized ceiling closure*. In its closed position, the motorized closure forms a solid bottom panel giving the ceiling a clean appearance. ❶ At the touch of a switch or wireless transmitter, the door of the ULTIMATE ACCESS opens *into* the case before the viewing surface descends into the room. ❷ Your audience will be impressed by its precision timing and quiet, fluid movement. No other projection screen offers you so many benefits. Refer to page 6 for the rewards of installing the ACCESS case during the “dirty” phase of the construction process. The screen (motor-in-roller with attached viewing surface) can be ordered, shipped and stored independently of the headbox, and popped into the case at a future date. The entire closure extends down as required for screen installation or adjustment. ❸

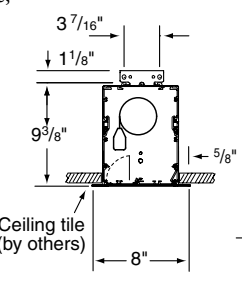
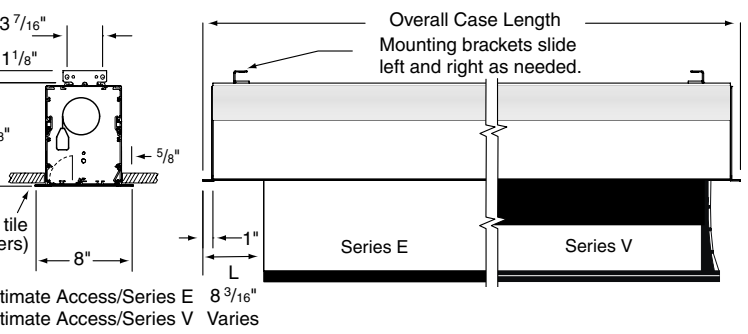
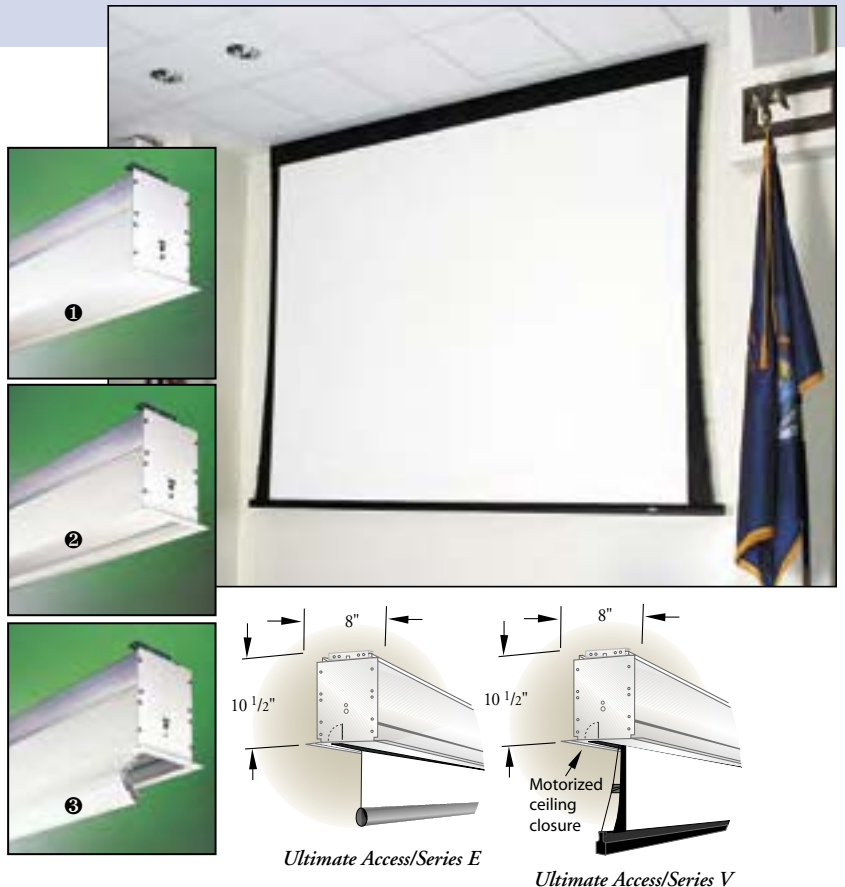
ULTIMATE ACCESS—the ultimate in projection screen design.

**Ultimate Access/Series V**—Motorized screen available with the unparalleled performance of our TAB TENSIONING SYSTEM in M1300, M2500 and HiDEF GREY front projection surfaces, as well as the CINEFLEX rear projection surface. See page 11 for more on the benefits of TAB TENSIONING.

**Ultimate Access/Series E**—Motorized screen with your choice of a conventional viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY or acoustically transparent AT1200 or AT GREY.

## System Options

- **Extra Drop**—Additional drop is optional, either white or black. (White is standard for SERIES E in AV format. Black is standard for SERIES E in all other formats and for all SERIES V screens).
- **Black Masking Borders**—Borders are optional for SERIES E in AV format. Borders are standard for SERIES E in all other formats and for all SERIES V screens.
- **Control Options**—Refer to page 25. Controls may be built into case.



Ultimate Access/Series E 8 3/16"  
Ultimate Access/Series V Varies

U.S. Patent Nos. 5,341,241; 6,137,629; 6,421,175 and 6,532,109. Other Patents Pending.

Series E			Series V <sup>1</sup>			Series E				Series V <sup>1</sup>			
Size H x W	Case Length	Net Wt. (lbs.)	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Case Length	Net Wt. (lbs.)	Image Area H x W	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)
<b>Audio Visual Format</b>													
50" x 50"	66 3/8"	82	75 7/8"	60"	84	6'	42 1/2" x 56 1/2"	76 3/8"	85	42 1/2" x 56 1/2"	82 3/8"	66 1/2"	87
60" x 60"	76 3/8"	89	86 7/8"	71"	96	7'	50" x 66 1/2"	86 3/8"	96	50" x 66 1/2"	96 3/8"	76 1/2"	99
70" x 70"	86 3/8"	98	96 7/8"	82"	100	100"	60" x 80"	100 3/8"	103	60" x 80"	106 7/8"	91"	106
84" x 84"	100 3/8"	105	112 1/8"	96"	108	10'	69" x 92"	112 3/8"	121	72" x 96"	122 7/8"	108"	134
72" x 96"	112 3/8"	121	122 7/8"	108"	134	11'	78" x 104"	124 3/8"	136	78" x 104"	132 3/8"	116"	140
96" x 96"	112 3/8"	127	125 5/8"	109 1/2"	135	150"	87" x 116"	136 3/8"	138	87" x 116"	144 3/8"	129 1/2"	142
7' x 9'	124 3/8"	134	136 1/8"	120"	138	15'	105" x 140"	160 3/8"	157	108" x 144"	173 3/8"	158"	160
9' x 9'	124 3/8"	135	137 5/8"	122"	139	<b>HDTV Format (16:9)</b>							
8' x 10'	136 3/8"	141	149 5/8"	133 1/2"	144	92" <sup>1</sup>	45" x 80"	100 3/8"	100	45" x 80"	105 7/8"	90"	103
10' x 10'	136 3/8"	155	151 3/8"	135 3/4"	158	106" <sup>1</sup>	52" x 92"	112 3/8"	120	52" x 92"	117 7/8"	102"	130
9' x 12'	160 3/8"	157	173 3/8"	158"	160	119"	58" x 104"	124 3/8"	132	58" x 104"	129 7/8"	115"	135
12' x 12'	160 3/8"	173	179 3/8"	161 1/2"	176	133"	65" x 116"	136 3/8"	134	65" x 116"	142 7/8"	127"	137
<sup>1</sup> All SERIES V screens and these SERIES E HDTV sizes include 12" black drop as standard.													
<sup>2</sup> SERIES V: additional drop will increase case and dowel length. Contact DRAPER if this dimension is critical.													
<b>WideScreen Format (1.85:1)</b>													
						161"	79" x 140"	160 3/8"	152	79" x 140"	168 3/8"	152"	155
						99"	47" x 87"	106 3/8"	112	47" x 87"	112 7/8"	97"	110
						108"	50" x 92"	112 3/8"	120	50" x 92"	117 7/8"	102"	130
						120"	56" x 104"	124 3/8"	130	56" x 104"	129 7/8"	115"	134
						132"	63" x 116"	136 3/8"	134	63" x 116"	142 7/8"	127"	137
						162"	76" x 140"	160 3/8"	152	76" x 140"	168 3/8"	152"	155

Complete Ultimate Access Series specifications: [draperinc.com](http://draperinc.com)

# Access Sonata

## One screen, four formats.

ACCESS SONATA—a motorized screen and masking system linked electronically provides *four* different projection formats at the touch of a button—all in a ceiling-recessed ACCESS case.

A flat black mask on a second roller converts the projection screen to your choice of four formats: NTSC, HDTV, WideScreen and CinemaScope.

During format change, the center line and width of the viewing surface remain constant while the mask and projection screen move simultaneously into their factory preset positions.

ACCESS SONATA—*one screen, four formats. Unlimited possibilities.*

**Access Sonata/Series V**—Choose M1300, M2500 or HiDEF GREY. See page 11 for more on the benefits of TAB TENSIONING.

**Access Sonata/Series E**—Choose fiberglass matt white, glass beaded, HIGH CONTRAST GREY, or acoustically transparent AT1200 or AT GREY.

### System Options

- **Extra Drop**—12" black drop standard for all screens in both SERIES. Extra black drop available up to a total screen height of 100".

Size Nominal Diagonal	Screen Image	Masked Image	Masked Image	Masked Image	Series V		Series E	
	NTSC 4:3 H x W	HDTV 16:9 H x W	WideScreen 1.85:1 H x W	CinemaScope 2.35:1 H x W	Case Length*	Net Wt. (lbs.)	Case Length*	Net Wt. (lbs.)
6'	42½" x 56½"	32" x 56½"	30½" x 56½"	24" x 56½"	83½"	100	76⅝"	100
7'	50" x 66½"	37½" x 66½"	36" x 66½"	28½" x 66½"	94½"	110	86⅝"	110
100"	60" x 80"	45" x 80"	43" x 80"	34" x 80"	108"	130	100⅞"	130
10'	69" x 92"	51½" x 92"	50" x 92"	39" x 92"	—	—	112½"	135
10'	72" x 96"	54" x 96"	52" x 96"	41" x 96"	125¼"	136	—	—
11'	78" x 104"	58½" x 104"	56" x 104"	44½" x 104"	132¾"	140	124⅞"	140
150"	87" x 116"	65" x 116"	63" x 116"	49½" x 116"	146¾"	150	136⅞"	150



1.33:1 NTSC

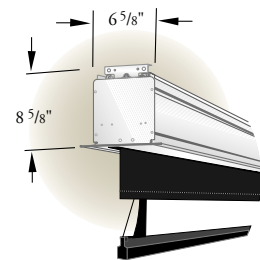
1.78:1 HDTV



1.85:1 WideScreen

2.35:1 CinemaScope

- **Black Masking Borders**—Borders are standard for all screens in both SERIES.
- **Control Options**—Refer to page 25. Single station 6-button wall switch standard. Compatible with Sonata IR remote control.



U.S. Patent 6,137,629; 6,421,175; 6,532,109. Other patents pending.

# Access MultiView

## One screen, two formats.

ACCESS MULTIVIEW—a motorized screen and independently motorized masking system provides *dual* format projection—all in a ceiling-recessed ACCESS case.

Select a projection screen in HDTV or WideScreen format up to 10' wide. A flat black mask on a second motor-in-roller converts the screen to a NTSC video format by masking the right and left sides of the viewing surface. The height of the viewing surface remains constant.

**Access MultiView/Series V**—Features DRAPER'S TAB TENSIONING SYSTEM for a perfectly flat projection surface. Choose M1300, M2500 or HiDEF GREY. See page 11 for more on the benefits of TAB TENSIONING.

**Access MultiView/Series E**—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY, or acoustically transparent AT1200 or AT GREY.

### System Options

- **Extra Drop**—12" black drop standard for all screens in both SERIES. Extra black drop available up to a total screen height of 90".
- **Black Masking Borders**—Borders are standard for all screens in both SERIES.
- **Control Options**—Screen and mask are independently controlled, each by a standard 3-position rocker switch. Options include a 24V, 6-button, single gang wall switch that controls both motors; two wireless IR remote controls; or two wall switches with built-in IR receivers and one transmitter.

From 16:9 HDTV or Nominal Diagonal	Open Image	From 1.85:1 WideScreen	To 4:3 NTSC Video	Series V		Series E			
	Area (16:9)	Nominal Diagonal	Open Image Area (1.85:1)	Nominal Diagonal	Masked Image Area (4:3)	Case Length*	Net Wt. (lbs.)	Case Length*	Net Wt. (lbs.)
92"	45" x 80"	95"	45" x 83"	75"	45" x 60"	110¼"	85	104⅝"	75
106"	52" x 92"	109"	52" x 96"	86"	52" x 69"	125"	95	117⅝"	81
123"	60" x 107"	126"	60" x 111"	100"	60" x 80"	140"	110	132⅝"	120
133"	65" x 116"	136"	65" x 120"	108"	65" x 87"	151"	135	141⅝"	145

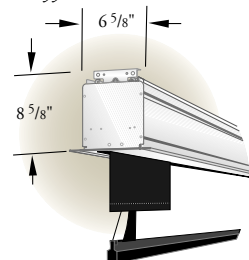
\*Extra drop, beyond the 12" that is standard, increases length of case on Series V screens. Built-in controls will increase length of case.




1.78:1 HDTV or 1.85:1 WideScreen



1.33:1 NTSC



# Signature Series

Sizes through 16' wide;  Automatic ceiling closure.

SIGNATURE's independently motorized ceiling closure disappears *into* the case when the screen is lowered, for a perfectly unobstructed view. Hinges are completely concealed, and the closure is supported for its entire length—no sag is possible. These exclusive features mean that the SIGNATURE SERIES is the best-concealed projection screen you've ever seen.

The SIGNATURE SERIES offers the clean appearance of a ceiling-recessed screen in any size through 16' wide. Now manufactured with a white all-aluminum case that is plenum rated (UL approved for use in environmental air space).

The new extruded aluminum case design allows for the sophisticated MC1 optional controls for serial communication to be factory installed in the internal junction box. Or, select our low-voltage control, the LVC-III, for remote operation. It, too, may now be factory installed.

Two case sizes: small for screens with an image width through 144"; large for all others. SIGNATURE sizes appear on page 11. U.S. Patent No. 5,341,241.

**Signature/Series V**—Features DRAPER'S TAB TENSIONING SYSTEM for a perfectly flat projection surface. Choose M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface. See page 11 for more on the benefits of TAB TENSIONING.

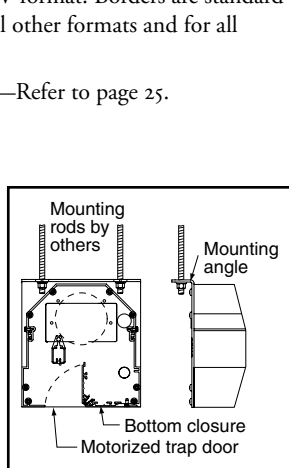
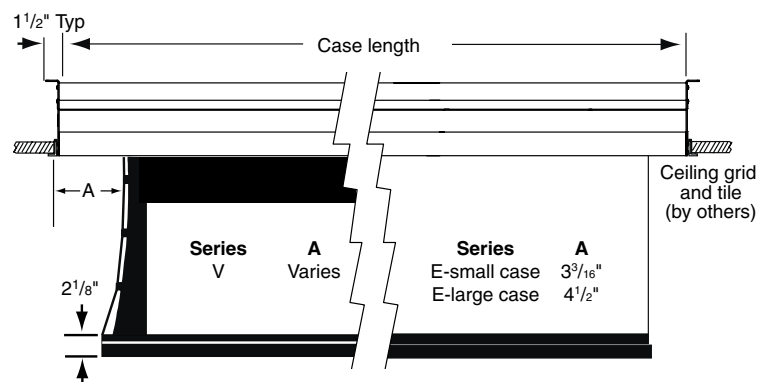
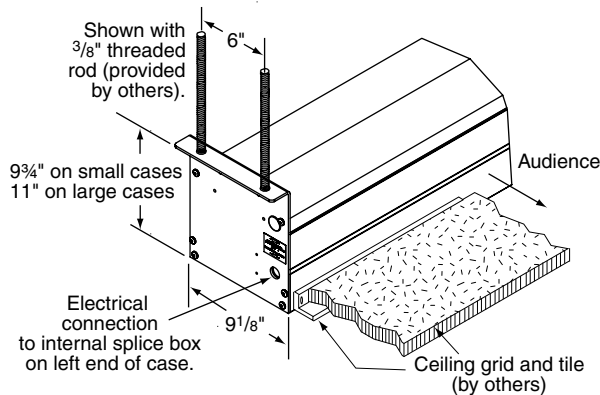
**Signature/Series E**—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY or acoustically transparent AT1200 or AT GREY.

### Signature System Options

- **Extra Drop, Series V**—Additional drop is optional, either white or black, up to 14' overall height (black is standard).
- **Extra Drop, Series E**—Up to 16' overall height, either white or black (white is standard for SERIES E in AV format; black for all other formats).
- **Black Masking Borders**—Borders are optional for SERIES E in AV format. Borders are standard for SERIES E in all other formats and for all SERIES V screens.
- **Control Options**—Refer to page 25.



Signature/Series V and ScissorLift at PIPAC Centre on the Lake in Cedar Falls, IA. Installation by AVi Systems, Urbandale, Iowa. Andersen Holst Trost Svoboda Architects. Photography by Rod VanderWerf, both of Waterloo, Iowa.



Complete Signature Series specifications: [www.draperinc.com](http://www.draperinc.com)

## Standard Signature Sizes

Size H x W	Series E		Series V <sup>1</sup>		
	Case Length	Net Wt. (lbs.)	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)
<b>Audio Visual Format</b>					
50" x 50"	56 <sup>3</sup> / <sub>8</sub> "	52	66"	60"	63
60" x 60"	66 <sup>3</sup> / <sub>8</sub> "	63	77"	71"	75
70" x 70"	76 <sup>3</sup> / <sub>8</sub> "	75	87"	82"	84
84" x 84"	90 <sup>3</sup> / <sub>8</sub> "	84	102 <sup>1</sup> / <sub>4</sub> "	96"	98
72" x 96"	102 <sup>3</sup> / <sub>8</sub> "	98	113"	108"	109
96" x 96"	102 <sup>3</sup> / <sub>8</sub> "	109	115 <sup>3</sup> / <sub>4</sub> "	109 <sup>1</sup> / <sub>2</sub> "	110
7' x 9'	114 <sup>3</sup> / <sub>8</sub> "	122	126 <sup>1</sup> / <sub>4</sub> "	120"	124
9' x 9'	114 <sup>3</sup> / <sub>8</sub> "	124	129 <sup>1</sup> / <sub>2</sub> "	122"	125
8' x 10'	126 <sup>3</sup> / <sub>8</sub> "	130	139 <sup>3</sup> / <sub>4</sub> "	133 <sup>1</sup> / <sub>2</sub> "	132
10' x 10'	126 <sup>3</sup> / <sub>8</sub> "	132	141 <sup>1</sup> / <sub>2</sub> "	135 <sup>3</sup> / <sub>4</sub> "	136
9' x 12'	150 <sup>3</sup> / <sub>8</sub> "	153	165 <sup>1</sup> / <sub>2</sub> "	158"	156
12' x 12'	150 <sup>3</sup> / <sub>8</sub> "	156	169 <sup>1</sup> / <sub>2</sub> "	161 <sup>1</sup> / <sub>2</sub> "	158
10'6" x 14'	177"	190	192 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	240
14' x 14'	177"	192	199 <sup>1</sup> / <sub>4</sub> "	N/A <sup>3</sup>	250
12' x 16'	201"	215	218 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	260
16' x 16'	201"	216	—	—	—

Small case dimensions: 9<sup>3</sup>/<sub>4</sub>" high x 9<sup>1</sup>/<sub>8</sub>" wide in screen sizes through 144" wide.

Large case dimensions: 11" high x 9<sup>1</sup>/<sub>8</sub>" wide in screen sizes larger than 144" wide.

Mounting brackets extend 1<sup>1</sup>/<sub>2</sub>" beyond each end of case.

<sup>1</sup> All SERIES V screens and these SERIES E HDTV sizes include 12" black drop as standard.

<sup>2</sup> Extra drop will increase case and dowel length. Contact DRAPER if this dimension is critical.

<sup>3</sup> Contact DRAPER for dowel length on screens exceeding 12' viewing surface width.

Size Nom. Diag.	Series E			Series V <sup>1</sup>			
	Image Area H x W	Case Length	Net Wt. (lbs.)	Image Area H x W	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)
<b>NTSC Format (4:3)</b>							
6'	42 <sup>1</sup> / <sub>2</sub> " x 56 <sup>1</sup> / <sub>2</sub> "	66 <sup>3</sup> / <sub>8</sub> "	70	42 <sup>1</sup> / <sub>2</sub> " x 56 <sup>1</sup> / <sub>2</sub> "	72 <sup>1</sup> / <sub>2</sub> "	66 <sup>1</sup> / <sub>2</sub> "	75
7'	50" x 66 <sup>1</sup> / <sub>2</sub> "	76 <sup>3</sup> / <sub>8</sub> "	75	50" x 66 <sup>1</sup> / <sub>2</sub> "	82 <sup>1</sup> / <sub>2</sub> "	76 <sup>1</sup> / <sub>2</sub> "	79
100"	60" x 80"	90 <sup>3</sup> / <sub>8</sub> "	78	60" x 80"	95"	91"	95
10'	69" x 92"	102 <sup>3</sup> / <sub>8</sub> "	92	72" x 96"	113"	108"	109
11'	78" x 104"	114 <sup>3</sup> / <sub>8</sub> "	109	78" x 104"	122 <sup>1</sup> / <sub>4</sub> "	116"	122
150"	87" x 116"	126 <sup>3</sup> / <sub>8</sub> "	117	87" x 116"	134 <sup>1</sup> / <sub>4</sub> "	129 <sup>1</sup> / <sub>2</sub> "	127
15'	105" x 140"	150 <sup>3</sup> / <sub>8</sub> "	132	108" x 144"	165 <sup>1</sup> / <sub>2</sub> "	134"	156
200"	118" x 158"	173"	185	118" x 158"	180 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	199
210"	126" x 168"	181"	190	126" x 168"	192 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	240
220"	132" x 176"	189"	205	132" x 176"	200 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	250
230"	138" x 184"	192"	210	138" x 184"	210 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	255
240"	141" x 188"	201"	216	144" x 192"	218 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	260
<b>HDTV Format (16:9)</b>							
92" <sup>1</sup>	45" x 80"	90 <sup>3</sup> / <sub>8</sub> "	78	45" x 80"	96"	90"	94
106" <sup>1</sup>	52" x 92"	102 <sup>3</sup> / <sub>8</sub> "	92	52" x 92"	108"	102"	107
119"	58" x 104"	114 <sup>3</sup> / <sub>8</sub> "	100	58" x 104"	121"	115"	121
133"	65" x 116"	144 <sup>3</sup> / <sub>8</sub> "	109	65" x 116"	133"	127"	126
161"	79" x 140"	150 <sup>3</sup> / <sub>8</sub> "	132	79" x 140"	158 <sup>1</sup> / <sub>4</sub> "	152"	150
184"	90" x 160"	173"	185	90" x 160"	180 <sup>3</sup> / <sub>4</sub> "	N/A <sup>3</sup>	199
193"	94 <sup>1</sup> / <sub>2</sub> " x 168"	181"	190	94 <sup>1</sup> / <sub>2</sub> " x 168"	188 <sup>3</sup> / <sub>4</sub> "	N/A <sup>3</sup>	230
220"	106" x 188"	201"	216	108" x 192"	214 <sup>1</sup> / <sub>2</sub> "	N/A <sup>3</sup>	240
<b>WideScreen Format (1.85:1)</b>							
99"	47" x 87"	96 <sup>3</sup> / <sub>8</sub> "	90	47" x 87"	103"	97"	99
108"	50" x 92"	102 <sup>3</sup> / <sub>8</sub> "	92	50" x 92"	108"	102"	107
120"	56" x 104"	114 <sup>3</sup> / <sub>8</sub> "	105	56" x 104"	120"	115"	121
132"	63" x 116"	126 <sup>3</sup> / <sub>8</sub> "	109	63" x 116"	133"	127"	126
162"	76" x 140"	150 <sup>3</sup> / <sub>8</sub> "	132	76" x 140"	158 <sup>1</sup> / <sub>4</sub> "	152"	150
182"	86 <sup>1</sup> / <sub>2</sub> " x 160"	173"	185	86 <sup>1</sup> / <sub>2</sub> " x 160"	180 <sup>3</sup> / <sub>4</sub> "	N/A <sup>3</sup>	199
190"	91" x 168"	181"	190	91" x 168"	188 <sup>3</sup> / <sub>4</sub> "	N/A <sup>3</sup>	230
218"	102" x 188"	201"	216	104" x 192"	214 1/2"	N/A <sup>3</sup>	240

## Tab Tensioning System

TAB TENSIONING is preferred for perfect picture quality—the flatter the surface, the clearer the image. Computer-driven data and graphics presentations, as well as large-screen video images, always look their best on a tensioned screen.

Our TAB TENSIONING SYSTEM has a sleek look. DRAPER's roller and attachment method is designed to assure no irregularities mar the smoothness of the viewing surface. The entire surface is flatter than ever before, and the dowel caps are removable allowing you to adjust the surface flatness when necessary. Small tabs and a small-diameter tension cable make the tensioning system less visible.

You'll find these benefits on all SERIES V and SERIES C screen models and Premier: SIGNATURE, ACCESS, ULTIMATE ACCESS, ACCESS SONATA, ACCESS MULTIVIEW, PREMIER, SILHOUETTE, and ARTISAN. These models come standard with 12" of black drop at the top of the viewing area.



# Rolleramic

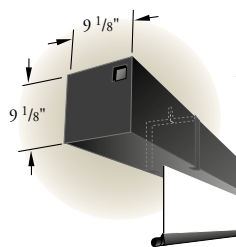


## Heavy-duty for big-screen presentations.

The ROLLERAMIC comes in sizes through 20' x 20' or 25' diagonal to accommodate large presentations. All-wood case may be recessed in the ceiling or painted to match its surroundings. The viewing surface is concealed when not in use; lower it to any position at the touch of a switch. The direct drive module is mounted on rubber vibration insulators. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

### System Options

- **Extra Drop**—Up to 20' total screen height, either white or black.
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Triangular Shaped Steel Slat** at bottom of projection surface. When screen is recessed above ceiling, the triangular slat can be set to stop flush with the ceiling.
- **Mounting Brackets**—Universal brackets for wall or ceiling mount included, made of 1/4" thick strap steel. Can also be installed above the ceiling line.
- **Control Options**—Refer to page 25.



Media Center at Oxford (MI) High School. Architect: TMP Associates, Inc. Bloomfield Hills, Michigan. Installation by American Furniture Contractors, Grand Rapids.

Size H x W	Case Length	Net Wt. (lbs.)	Size H x W	Case Length	Net Wt. (lbs.)	Size H x W	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>								
50" x 50"	6'2"	102	9' x 9'	11'	167	12' x 16'	18'6"	288
60" x 60"	7'	107	8' x 10'	12'	176	16' x 16'	18'6"	317
70" x 70"	7'10"	119	10' x 10'	12'	178	13'6" x 18'	20'6"	334
84" x 84"	9'	145	9' x 12'	14'	204	18' x 18'	20'6"	360
72" x 96"	10'	143	12' x 12'	14'	205	8' x 20'	22'6"	394
96" x 96"	10'	159	10'6" x 14'	16'6"	252	15' x 20'	22'6"	410
7' x 9'	11'	162	14' x 14'	16'6"	262	20' x 20'	22'6"	440

Hangers extend 2 5/8" above case.

Complete Rolleramic and Paragon specifications: [www.draperinc.com](http://www.draperinc.com)

# Paragon



## Large projection screen through 28' wide.

Choose the PARAGON for any setting where a very large screen is required. Sizes up to 21' x 28', or 35' diagonal NTSC. White extruded aluminum case can be suspended anywhere, with controls wherever they're needed. Your choice of a conventional viewing surface: fiberglass matt white or glass beaded.

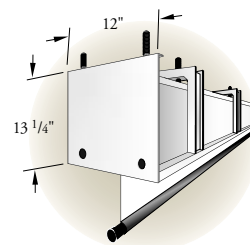
### System Options

- **Extra Drop**—Up to 24' total screen height, either white or black (white standard on AV format screens, black on all others).
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Control Options**—Refer to page 25.
- **Wall Mount Bracket Kit**—Includes hardware for attaching brackets to case.
- **Ceiling Trim Flange**—White extruded aluminum available in 12' lengths, with hardware for attaching it to case. Remember to order trim for both front and back of case if required. Ceiling trim flange is also available for endcaps.



Peeler Art Center Auditorium, DePauw University, Greencastle, Indiana. Patent pending.

Size H x W	Case Length	Net Wt. (lbs.)	Size H x W	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>						<b>NTSC Format (4:3)</b>				
15' x 20'	20'10"	440	18' x 24'	24'10"	538	25'	177" x 236"	182" x 240"	20'10"	440
20' x 20'	20'10"	450	24' x 24'	24'10"	548	27 1/2'	194" x 260"	199" x 264"	22'10"	484
11' x 22'	22'10"	484	13' x 26'	26'10"	572	30'	212" x 284"	217" x 288"	24'10"	528
16 1/2' x 22'	22'10"	494	19 1/2' x 26'	26'10"	582	32 1/2'	230" x 308"	235" x 312"	26'10"	572
22' x 22'	22'10"	504	14' x 28'	28'10"	616	35'	248" x 332"	253" x 336"	28'10"	616
12' x 24'	24'10"	528	21' x 28'	28'10"	626	Optional wall-mounting brackets extend 1 3/4" beyond each end of case.				



# Envoy

## Motor-in-roller with ceiling closure.

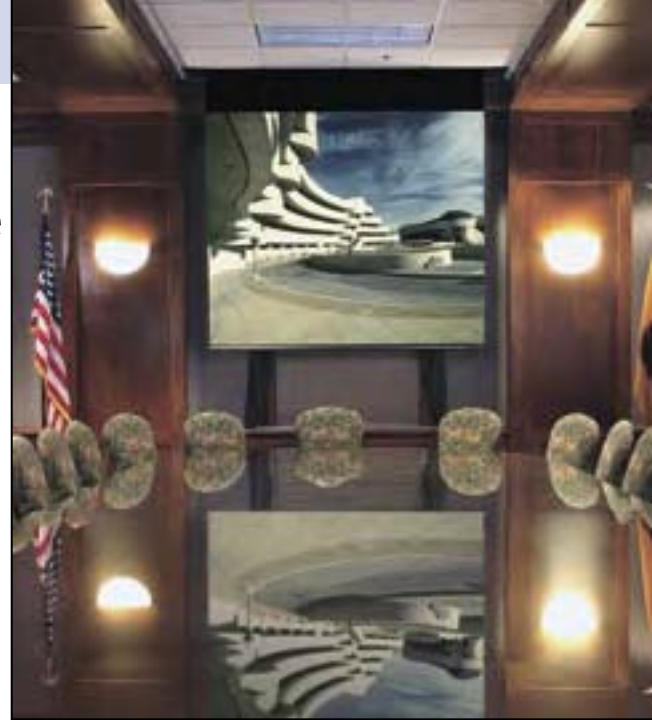
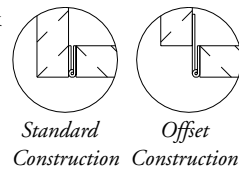
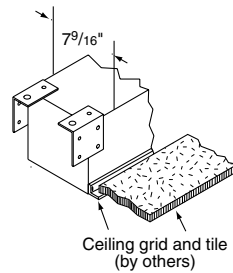
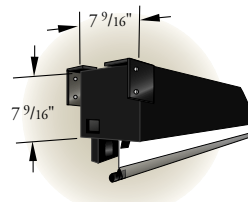
The ENVOY adds a touch of class to any presentation. The screen is recessed in the ceiling and invisible when not in use. At the touch of a switch, an automatic ceiling closure opens and the screen appears. The ceiling closure can easily be finished to match the ceiling.

The ENVOY operates smoothly and silently. The motor is mounted inside the roller on special vibration insulators. The screen's slender profile makes it easy to install above most ceilings.

Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY.

### System Options

- **Extra Drop**—Up to 12' overall height, either white or black (white is standard for AV format, black for other formats).
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Control Options**—Refer to page 25.



Don R. Daseke '61 Boardroom in the Union Building at DePauw University, Greencastle, Indiana.

Size H x W	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			<b>HDTV Format (16:9)</b>						
50" x 50"	65"	60	6'	42½" x 56½"	46½" x 59½"	75"	70	92" <sup>1</sup>	45" x 80"	57" x 83½"	99"	80
60" x 60"	75"	70	7'	50" x 66½"	53½" x 69½"	85"	75	106" <sup>1</sup>	52" x 92"	64" x 96"	111"	85
70" x 70"	85"	75	100"	60" x 80"	64" x 83½"	99"	80	119"	58" x 104"	62" x 108"	123"	100
84" x 84"	99"	80	10'	69" x 92"	73" x 96"	111"	85	133"	65" x 116"	69" x 120"	135"	115
72" x 96"	111"	85	11'	78" x 104"	83" x 108"	123"	105	161"	79" x 140"	84" x 144"	159"	125
96" x 96"	111"	100	150"	87" x 116"	92" x 120"	135"	115	<b>WideScreen Format (1.85:1)</b>				
7' x 9'	123"	105	15'	105" x 140"	109" x 144"	159"	125	99"	47" x 87"	51" x 90"	105"	82
9' x 9'	123"	115	<sup>1</sup> These HDTV sizes include 12" black drop as standard. Mounting brackets extend 2" in length beyond ends of case. Center of mounting holes is 1¼" from each end of case.									
8' x 10'	135"	115										
10' x 10'	135"	120										
9' x 12'	159"	125										
12' x 12'	159"	130										

# Ambassador

Complete Envoy and Ambassador specifications: [www.draperinc.com](http://www.draperinc.com)

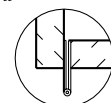
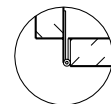
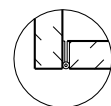
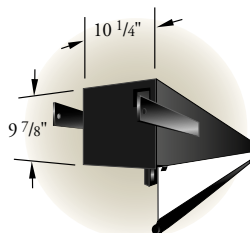
## Direct-drive motorized screen with ceiling closure.

The DRAPER AMBASSADOR is a direct-drive, heavy-duty, electrically operated screen designed specifically for recessed installation above any type of ceiling.

The AMBASSADOR features a fully automatic ceiling closure, which totally conceals the screen when not in use. The ceiling closure can be finished by the contractor to match the ceiling. Your choice of fiberglass matt white, glass beaded or HIGH CONTRAST GREY viewing surface.

### System Options

- **Extra Drop**—Up to 12' overall height, either white or black (white is standard).
- **Black Masking Borders**—optional.
- **Control Options**—Refer to page 25.



Extended Hinges for Attachment of Ceiling Tile (Wt. not to exceed 16 oz./sq. ft.)

Size H x W	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>		
50" x 50"	74"	118
60" x 60"	84"	128
70" x 70"	94"	134
84" x 84"	108"	161
72" x 96"	120"	182
96" x 96"	120"	187
7' x 9'	132"	192
9' x 9'	132"	197
8' x 10'	144"	219
10' x 10'	144"	227
9' x 12'	168"	247
12' x 12'	168"	252

Mounting brackets extend 4" in length beyond ends of case.



Belden, Inc., Richmond, Indiana.

# Silhouette



## High tech appearance.

We changed the appearance of projection screens with a revolutionary case design. The SILHOUETTE's case conceals everything:

- Mounting fixtures • Fasteners • Electrical connections
- Optional controls • Dowels retract inside case

The innovative case installs cleanly, and the front fascia removes easily for access to the inside components. Its slender fascia and endcaps are made of gently radiused aluminum and presents a strikingly modern appearance. There is no need to conceal the SILHOUETTE—it will complement the other high-tech equipment in your room.

**Silhouette/Series V**—Features DRAPER'S TAB TENSIONING SYSTEM for a perfectly flat projection surface. Choose M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface. See page 11 for more on the benefits of TAB TENSIONING.

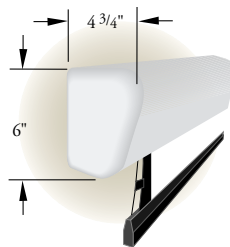
**Silhouette/Series E**—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY or acoustically transparent AT1200 or AT GREY.

### System Options

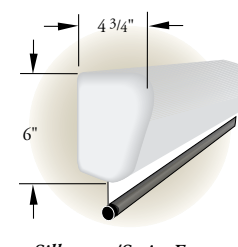
- **Case Finishes**—Choose a dove grey (standard), black or white lightly textured finish.
- **Extra Drop**—Additional drop is optional, either white or black. (White is standard for SERIES E in AV format. Black is standard for SERIES E in all other formats and for all SERIES V screens).
- **Black Masking Borders**—Borders are optional for SERIES E in AV format. Borders are standard for SERIES E in all other formats and for all SERIES V screens.
- **Control Options**—Refer to page 25. Controls may be built into case and will increase the overall length of the case.



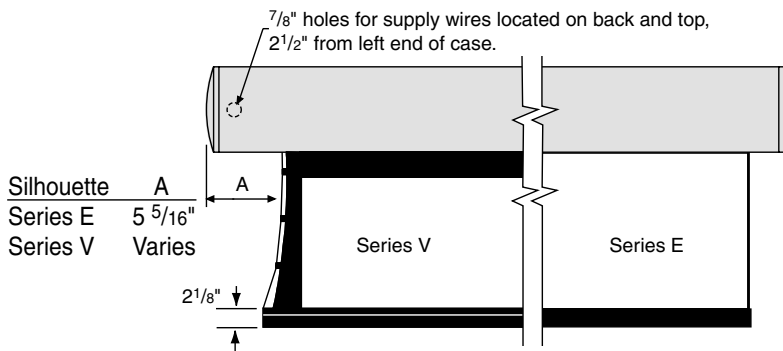
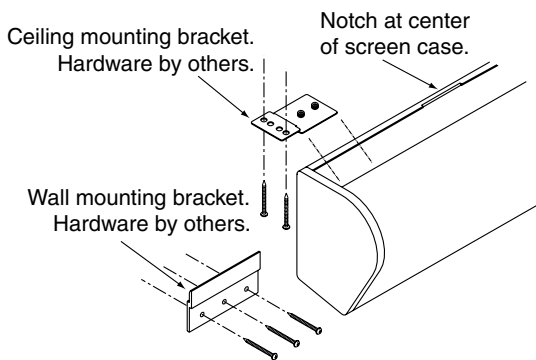
Lapham Hall, University of Wisconsin-Milwaukee. Installation by SPL Integrated Solutions. Photography by Barry Rustin, Evanston, Illinois. U.S. Patent Nos. 5,296,964 and 6,111,694.



Silhouette/Series V



Silhouette/Series E



Size H x W	Series E		Series V <sup>1</sup>		
	Case Length*	Net Wt. (lbs.)	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)

**Audio Visual Format**

50" x 50"	61½"	27	72¾"	60"	33
60" x 60"	71½"	29	83¾"	71"	35
70" x 70"	81½"	34	93¾"	82"	40
84" x 84"	95½"	40	97"	84"	46
72" x 96"	108"	48	119¾"	96"	57
96" x 96"	108"	53	122½"	97½"	59

<sup>1</sup> SERIES V and these SERIES E HDTV sizes include 12" black drop as standard. Additional drop may increase case and dowel length. Consult factory if this dimension is critical.

<sup>2</sup> Factory installed LVC-III or MCI inside case will increase case length by 7⅜". Factory installed VIC-6, VIC-12 or VIC-115 will not increase case length.

Size Nom. Diag.	Series E		Series V <sup>1</sup>			
	Image Area H x W	Case Length <sup>2</sup>	Net Wt. (lbs.)	Image Area H x W	Case Length <sup>2</sup>	Net Wt. (lbs.)

**NTSC Format (4:3)**

6'	42½" x 56½"	71½"	26	42½" x 56½"	79¼"	66½"	39
7'	50" x 66½"	81½"	31	50" x 66½"	89¼"	76½"	43
100"	60" x 80"	95½"	37	60" x 80"	103¾"	91"	47
10'	69" x 92"	108"	45	72" x 96"	119¾"	108"	54


**HDTV Format (16:9)**

65" <sup>1</sup>	31¾" x 56½"	71½"	25	31¾" x 56½"	77¼"	65½"	37
73" <sup>1</sup>	36" x 64"	81½"	30	36" x 64"	84¾"	73"	41
82" <sup>1</sup>	40½" x 72"	86"	33	40½" x 72"	93¾"	82"	45
92" <sup>1</sup>	45" x 80"	95½"	37	45" x 80"	102¾"	90"	50
106" <sup>1</sup>	52" x 92"	108"	45	52" x 92"	114¾"	102"	54

**WideScreen Format (1.85:1)**

99"	47" x 87"	102"	38	47" x 87"	109¾"	97"	47
108"	50" x 92"	108"	45	50" x 92"	114¾"	102"	54

# Artisan Series

Featuring hand-crafted cases in solid hardwood or plastic laminate. 

ARTISAN SERIES projection screens complement the fine furniture in your conference room. They are enclosed in solid hardwood cases with a variety of finishes to match virtually any decor—or in sleek, contemporary plastic laminate. Quiet motor-in-roller operation.

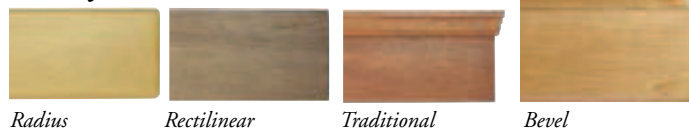
**Artisan/Series V**—Features DRAPER'S TAB TENSIONING SYSTEM for a perfectly flat projection surface. Choose MI300, M2500 or HiDEF GREY. See page II for more on the benefits of TAB TENSIONING.

**Artisan/Series E**—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

## System Options

- **Case Styles**—Hardwood cases are available in four styles, shown below.
- **Case Finishes**—Choose from seven hardwoods and five laminates, below. Custom finishes are available.
- **Extra Drop**—Additional drop is optional, either white or black. (White is standard for SERIES E in AV format. Black is standard for SERIES E in all other formats and for all SERIES V)
- **Black Masking Borders**—Borders are optional for SERIES E in AV format, and standard for all SERIES V screens, and for SERIES E in all other formats.
- **Control Options**—Refer to page 25.

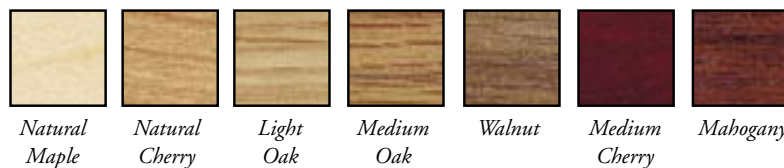
## Case Styles



Radius Rectilinear Traditional Bevel

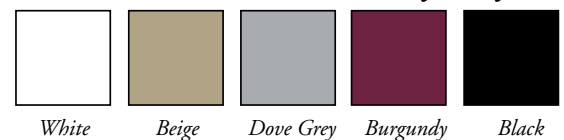
These colors match as closely as is possible on the printed page. Samples available for color matching. Custom finishes available.

## Solid Hardwoods



Natural Maple Natural Cherry Light Oak Medium Oak Walnut Medium Cherry Mahogany

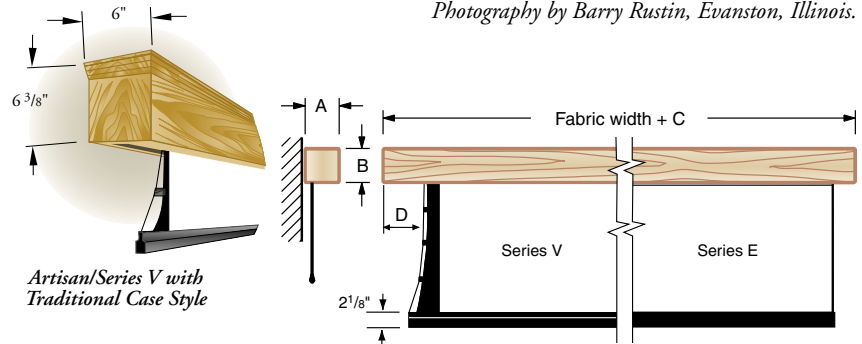
## Plastic Laminates (rectilinear case style only)



White Beige Dove Grey Burgundy Black



Photography by Barry Rustin, Evanston, Illinois.

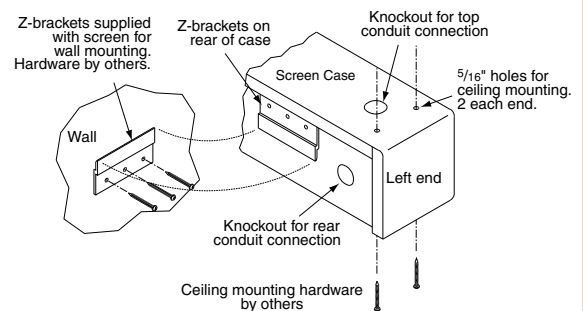


Artisan/Series V with Traditional Case Style

Artisan/Series E with Rectilinear Case Style

	A	B*	C	D
Series E	5"	5 1/4"	12"	6"
Series V	6"	6 3/8"	-Variable-	

\*Add 1/8" to height if case is to be bevel style.



Size H x W	Series E		Series V		
	Case Length	Net Wt. (lbs.)	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>Audio Visual Format</b>					
50" x 50"	64"	50	73 3/8"	60"	55
60" x 60"	72"	55	84 3/8"	71"	60
70" x 70"	82"	60	94 3/8"	82"	70
84" x 84"	96"	75	109 7/8"	84"	80
72" x 96"	108"	80	120 5/8"	96"	85
96" x 96"	108"	85	123 3/8"	109 1/2"	90

Size Nom. Diag.	Series E			Series V		
	Image Area H x W	Case Length	Net Wt. (lbs.)	Image Area H x W	Case Length*	Net Wt. (lbs.)
<b>NTSC Format (4:3)</b>						
6'	42 1/2" x 56 1/2"	72"	55	42 1/2" x 56 1/2"	79 3/8"	66 1/2"
7'	50" x 66 1/2"	82"	60	50" x 66 1/2"	89 7/8"	76 1/2"
100"	60" x 80"	96"	70	60" x 80"	105 3/8"	91"
10'	69" x 92"	108"	80	72" x 96"	120 3/8"	108"
<b>HDTV Format (16:9)</b>						
92"	45" x 80"	96"	70	45" x 80"	103 1/8"	90"
106"	52" x 92"	108"	80	52" x 92"	115 5/8"	102"
<b>WideScreen Format (1.85:1)</b>						
99"	47" x 87"	102"	70	47" x 87"	110 5/8"	97"
108"	50" x 92"	108"	80	50" x 92"	115 5/8"	102"

\*Additional drop will increase case and dowel length. Consult DRAPER if this dimension is critical.

Complete Artisan Series specifications: [www.draperinc.com](http://www.draperinc.com)

# Premier

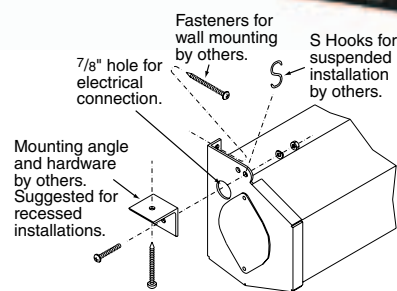
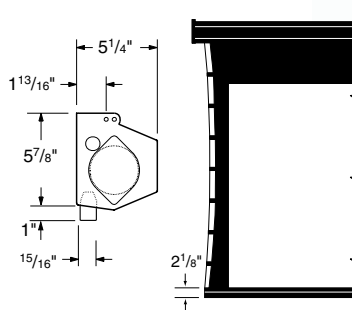
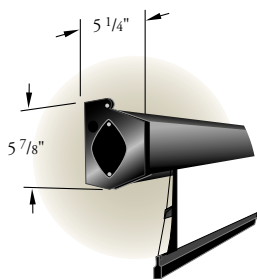
*Perfectly flat viewing surface delivers perfect image clarity.*

The PREMIER's automatic TAB TENSIONING SYSTEM delivers incredible picture quality with its perfectly flat viewing surface. The PREMIER's motor is mounted inside the roller on special vibration insulators, so its operation is smooth and silent.

Your choice of M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface. See page 11 for more benefits of DRAPER's TAB TENSIONING SYSTEM.

### System Options

- **Extra Drop**—Additional drop is optional, up to 12' overall height, either white or black (black is standard). Extra drop will increase the overall length of the case.
- **Black Masking Borders**—Standard for all formats.
- **Ceiling Opening Trim Kit**—for recessed installations. See below for details.
- **Projected Mounting Brackets**—provides a 6" clearance.
- **Control Options**—Refer to page 25.



Size H x W	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>Audio Visual Format</b>			
50" x 50"	68"	60"	30
60" x 60"	78 3/4"	71"	35
70" x 70"	89"	82"	40
84" x 84"	104 1/4"	96"	50
72" x 96"	115"	108"	55
96" x 96"	117 3/4"	109 1/2"	60
7' x 9'	128 1/4"	120"	70
9' x 9'	129 3/4"	122"	75
8' x 10'	141 3/4"	133 1/2"	80
10' x 10'	143 1/2"	135 3/4"	85
9' x 12'	168 3/4"	158"	90
12' x 12'	171 1/2"	161 1/2"	100

Size Nom. Diag.	Image Area H x W	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>NTSC Format (4:3)</b>				
6'	42 1/2" x 56 1/2"	74"	66 1/2"	35
7'	50" x 66 1/2"	84 1/4"	76 1/2"	40
100"	60" x 80"	97 3/4"	91"	50
10'	72" x 96"	115"	108"	55
11'	78" x 104"	124 1/4"	116"	65
150"	87" x 116"	136 1/4"	129 1/2"	78
15'	108" x 144"	165 3/4"	158"	90
200"	118" x 158"	180 3/4"	173 7/8"	95

Size Nom. Diag.	Image Area H x W	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>HDTV Format (16:9)</b>				
65"	31 3/4" x 56 1/2"	72 1/2"	65 1/2"	34
73"	36" x 64"	80"	73"	36
82"	40 1/2" x 72"	89"	82"	38
92"	45" x 80"	97 1/2"	90"	50
106"	52" x 92"	110"	104"	58
119"	58" x 104"	122"	115"	65
133"	65" x 116"	135"	127"	75
161"	79" x 140"	160 1/4"	152"	80
184"	90" x 160"	180 3/4"	173 7/8"	94

Size Nom. Diag.	Image Area H x W	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>WideScreen Format (1.85:1)</b>				
99"	47" x 87"	105"	97"	55
108"	50" x 92"	110"	102"	58
120"	56" x 104"	122"	115"	65
132"	63" x 116"	135"	127"	75
162"	76" x 140"	160 1/4"	152"	80
182"	86 1/2" x 160"	180 3/4"	173 7/8"	93

\*Additional drop increases length of case and dowel. Contact DRAPER if this dimension is critical. Case may be recess-mounted. Dowel clearance for recessed mounting equals dowel length plus 1".

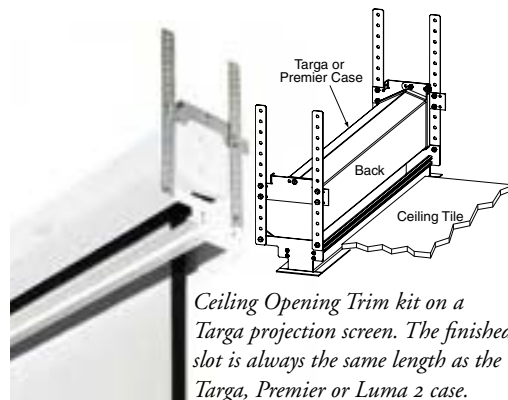
Complete Premier specifications:  
[www.draperinc.com](http://www.draperinc.com)

## Ceiling Opening Trim Kit

*For ceiling-recessed Premier, Targa and Luma 2 screens.*

Designed for ceiling-recessed installations of PREMIER, TARGA and LUMA 2 models. Trims out the opening and attaches to the screen's endcaps. Forms a finished slot in the ceiling allowing for passage of the viewing surface. Attaches to screen end caps. Painted white to match ceiling grid, resulting in a professional, attractive, ceiling-recessed installation. Slot includes finished flange to accept acoustical ceiling tile or grid. Slot measures only 2 1/8" in width. Aluminum operating pole is a recommended option for the LUMA 2.

With the DRAPER CEILING TRIM KIT, the slot is always exactly the right size and in precisely the right location. Our finished slot is always flush, square, attractive and the same length as the screen case.



*Ceiling Opening Trim kit on a Targa projection screen. The finished slot is always the same length as the Targa, Premier or Luma 2 case.*

# Targa



## Motor-in-roller for smooth, quiet operation.

TARGA—for value and reliability. DRAPER's motor-in-roller design allows viewing surface to be centered in its one-piece, white steel case for a trim, balanced appearance. The motor is mounted inside the roller on special vibration insulators, so operating noise is dramatically reduced. Matching endcaps form universal mounting brackets to attach case to wall or ceiling.

New large-sized TARGA screens are housed in a uniquely designed case to accommodate a larger diameter roller.

Your choice of a viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY, acoustically transparent AT1200 or AT GREY.

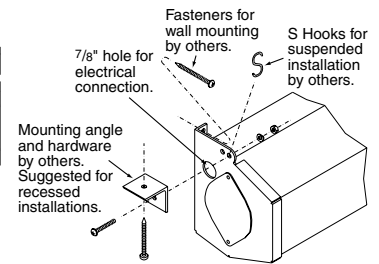
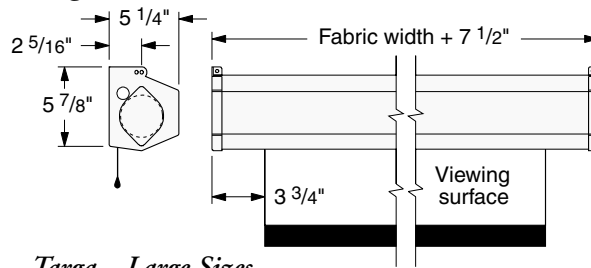
### System Options

- **Extra Drop**—Total screen height cannot exceed 18' for fiberglass matt white or 14' for glass beaded. Choose either white or black drop (white is standard for AV format, black for other formats).
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Projected Mounting Brackets**—provides a 6" clearance.
- **Ceiling Opening Trim Kit**—for recessed installations. When ordering a TARGA for use with a CEILING OPENING TRIM KIT, DRAPER recommends adding 12" of extra black drop at the top of the screen. See page 16 for details.
- **Control Options**—Refer to page 25.

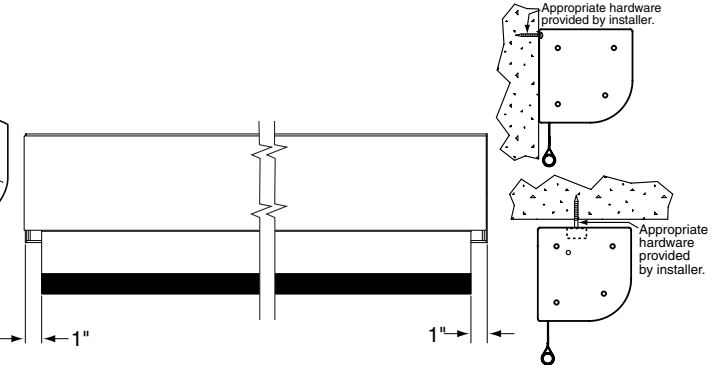
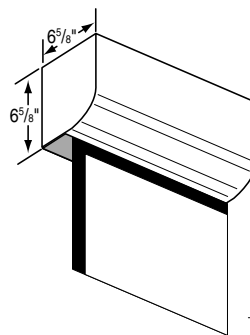


Five custom Draper Targa projection screens in the Kamikaze Theatre on board the Intrepid Sea, Air & Space Museum, New York City. Design & Installation: Glenn Polly, Videosonic. Photography: © 2005 Bruce Katz. Both in New York City.

### Targa



### Targa—Large Sizes



Size H x W	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)					
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			<b>HDTV Format (16:9)</b>											
50" x 50"	56½"	26	6'	42½" x 56½"	46½" x 59½"	66½"	30	65"²	31¾" x 56½"	43¾" x 59½"	66½"	29					
60" x 60"	66½"	30	7'	50" x 66½"	53½" x 69½"	76½"	35	73"²	36" x 64"	48" x 69½"	76½"	34					
70" x 70"	76½"	35	100"	60" x 80"	64" x 83½"	90½"	40	82"²	40½" x 72"	52½" x 74"	81"	36					
84" x 84"	90½"	40	10'	69" x 92"	73" x 96"	103"	44	92"²	45" x 80"	57" x 83½"	90½"	40					
72" x 96"	103"	44	11'	78" x 104"	83" x 108"	115"	47	106"²	52" x 92"	64" x 96"	103"	44					
96" x 96"	103"	45	150"	87" x 116"	92" x 120"	127"	54	119"	58" x 104"	62" x 108"	115"	46					
7' x 9'	115"	47	15'	105" x 140"	109" x 144"	151"	61	133"	65" x 116"	69" x 120"	127"	54					
9' x 9'	115"	49	200"	118" x 158"	123" x 162"	169"	77	161"	79" x 140"	84" x 144"	151"	70					
8' x 10'	127"	54	210"¹	126" x 168"	131" x 172"	174"	200	184"	90" x 160"	95" x 164"	171"	77					
10' x 10'	127"	58	240"¹	141" x 188"	146" x 192"	194"	226	193"¹	94½" x 168"	99½" x 172"	174"	193					
9' x 12'	151"	61	Case dimensions—5¾" high x 5¼" wide. Hanging brackets extend ⅝" above screen case.					220"¹	106" x 188"	111" x 192"	194"	218					
12' x 12'	151"	74						<b>WideScreen Format (1.85:1)</b>									
14' x 14'¹	170"	185						99"	47" x 87"	51" x 90"	97"	40					
12' x 16'¹	194"	226						108"	50" x 92"	54" x 96"	103"	44					
16' x 16'¹	194"	214						120"	56" x 104"	60" x 108"	115"	49					
													132"	63" x 116"	67" x 120"	127"	54
													162"	76" x 140"	80" x 144"	151"	75
													182"	86½" x 160"	91½" x 164"	171"	77
													190"¹	91" x 168"	96" x 172"	174"	195
													218"¹	102" x 188"	107" x 192"	194"	223

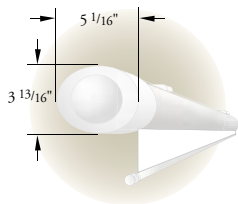
Complete Targa specifications: [www.draperinc.com](http://www.draperinc.com)

# Salara Series



*You've never seen a screen like this before.*

In the classroom or office, the SALARA SERIES makes a design statement. The SALARA's small, elliptical case and domed endcaps are finished in solid white, no need to hide it with extra carpentry work.



Quick and easy installation! Mounts to the wall with "floating" brackets which can be positioned along the back of the case. The result—the most attractive high-quality, lower-cost motorized screen you've ever seen. With lower installation costs.

**Salara**—SALARA is a hardwired screen like other DRAPER motorized screen. It can be furnished with any standard control option. Refer to page 25. As an alternative, the control board and IR receiver may be built into the endcap. SALARA is available in your choice of a conventional viewing surface: fiberglass matt white, glass beaded, HIGH CONTRAST GREY, acoustically transparent AT1200 or AT GREY.

**Salara/Plug & Play™**—Motorized screen with same viewing surface choices as the SALARA (above). The difference: with the SALARA/PLUG & PLAY, you can have a remote controlled screen on your wall in 10 minutes—no electrician required. Its 10' IEC cord plugs into a socket in the back of the case and the other end into the nearest wall outlet. SALARA/PLUG & PLAY has a built-in controller and IR receiver, and comes with a hand-held IR transmitter. RS232 compatible.

### System Options

- **Extra drop**—Up to 8' overall height, either surface color or black. (Surface color standard for AV format, black for other formats.)
- **Black masking borders**—Optional for AV format screens and standard for all other format screens.



*Small, elliptical case and domed endcaps finished in solid white*



*Built-in controller and IR receiver*

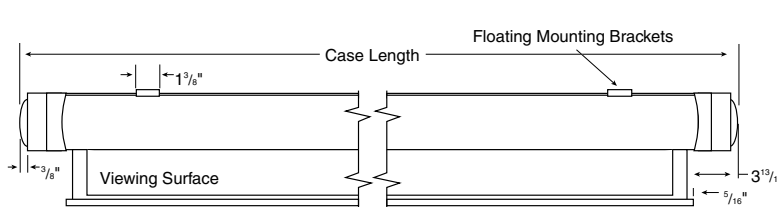
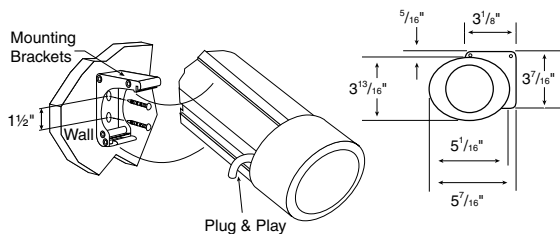


*Wall-mounting brackets*

*Plug & Play™ cord*



*Hand-held IR transmitter*



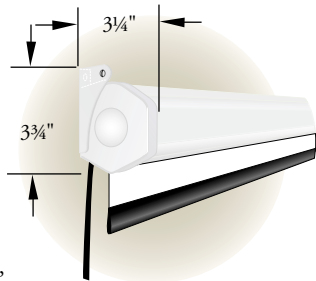
Size H x W	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			<b>HDTV Format (16:9)</b>						
50" x 50"	57 1/8"	23	6'	42 1/2" x 56 1/2"	46 1/2" x 59 1/2"	67 1/8"	25	65" <sup>1</sup>	31 3/4" x 56 1/2"	43 3/4" x 59 1/2"	67 1/8"	24
60" x 60"	67 1/8"	26	7'	50" x 66 1/2"	53 1/2" x 69 1/2"	77 1/8"	29	73" <sup>1</sup>	36" x 64"	48" x 69 1/2"	77 1/8"	28
70" x 70"	77 1/8"	30	100"	60" x 80"	64" x 83 1/2"	91 1/8"	34	82" <sup>1</sup>	40 1/2" x 72"	52 1/2" x 74"	81 5/8"	30
84" x 84"	91 1/8"	35	10'	69" x 92"	73" x 96"	103 3/8"	38	92" <sup>1</sup>	45" x 80"	57" x 83 1/2"	91 1/8"	32
72" x 96"	103 3/8"	38						106" <sup>1</sup>	52" x 92"	64" x 96"	103 3/8"	37
96" x 96"	103 3/8"	41						<b>WideScreen Format (1.85:1)</b>				
								99"	47" x 87"	51" x 90"	8' 1 5/8"	34
								108"	50" x 92"	54" x 96"	8' 7 3/8"	37

<sup>1</sup>These HDTV sizes include 12" black drop as standard.

Complete Salara specifications: [www.draperinc.com](http://www.draperinc.com)

# Baronet

No electrician required to install this compact electric screen.



The BARONET offers an excellent, lower-cost alternative to hardwired motorized screens. No electrician is required with the BARONET. Just install the motorized screen and plug it in. It's that simple. Its 10' power cord plugs into the nearest wall outlet. The BARONET is controlled by a 3-position, in-line operating switch.

Its attractive case fits in most spaces. Case measures only 3 1/4" high x 3 3/4" deep and houses the screen with a quiet, trouble-free motor-in-roller. Endcaps form universal mounting brackets making installation easy whether it is mounted on a wall, suspended or recessed above the ceiling. Both brackets extend 1/2" above the case.

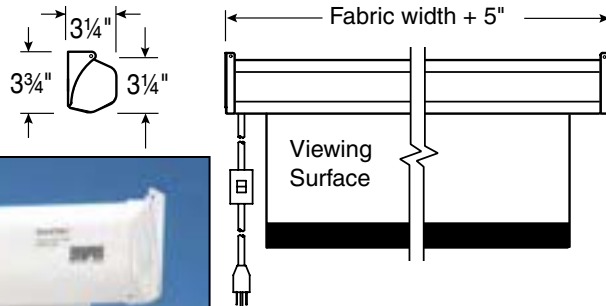
The BARONET's pentagonal-shaped steel case has a scratch-resistant white polyester finish. Viewing surface choices are fiberglass matt white, glass beaded and HIGH CONTRAST GREY.

## System Options

- **Extra drop**—Up to 8' overall height, either surface color or black. (Surface color standard for AV format, black for other formats.)
- **Black masking borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Control options**—Provided with 3-position in-line operating switch with U.S. plug certified by UL.



Baronet installation at World Bank (New Delhi) India. Architect: Raj Rewal Associates, New Delhi. Photo courtesy of the project system integrator: Total Presentation Devices, New Delhi.



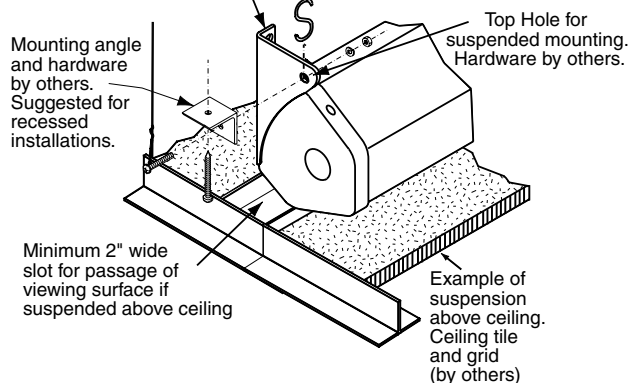
White endcaps form universal mounting brackets



An in-line operating switch controls the Baronet



Back hole for wall mounting. Hardware by others.



Example of suspension above ceiling. Ceiling tile and grid (by others)

Size H x W	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area H x W	Overall Size	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			<b>HDTV Format (16:9)</b>						
50" x 50"	55 1/4"	15	6'	42 1/2" x 56 1/2"	46 1/2" x 59 1/2"	65 1/4"	18	65" <sup>1</sup>	31 3/4" x 56 1/2"	43 3/4" x 59 1/2"	65 1/4"	18
60" x 60"	65 1/4"	18	7'	50" x 66 1/2"	53 1/2" x 69 1/2"	75 1/4"	20	73" <sup>1</sup>	36" x 64"	48" x 69 1/2"	75 1/4"	20
70" x 70"	75 1/4"	20	100"	60" x 80"	64" x 83 1/2"	89 1/4"	24	82" <sup>1</sup>	40 1/2" x 72"	52 1/2" x 74"	79 3/4"	22
84" x 84"	89 1/4"	24	10'	69" x 92"	73" x 96"	101 3/4"	26	92" <sup>1</sup>	45" x 80"	57" x 83 1/2"	89 1/4"	24
72" x 96"	101 3/4"	25	<sup>1</sup> These HDTV sizes include 12" black drop as standard.					106" <sup>1</sup>	52" x 92"	64" x 96"	101 3/4"	26
96" x 96"	101 3/4"	26						<b>WideScreen Format (1.85:1)</b>			99"	47" x 87"
						108"	50" x 92"	54" x 96"	101 3/4"	26		

Complete Salara specifications: [www.draperinc.com](http://www.draperinc.com)

# Revelation

*You won't see or hear the projector.*

The REVELATION is totally different from traditional projector lifts and mounts. DRAPER's REVELATION permanently conceals the projector—and its noise—above the ceiling at all times. Other lifts typically lower the projector into the room from a ceiling recess, or lift it into the seating area from a table hideaway.

You'll be astonished by what you see—and don't see—and *don't hear*—when your projector is mounted in a REVELATION.

You won't see or hear the projector—not before, during or after the show. You'll only see a hinged door in the ceiling, finished in white powder coat.

Available in two models, REVELATION A and REVELATION B both require only 13<sup>5</sup>/<sub>8</sub>" of space above the ceiling, and both can be installed to match a 2' x 2' ceiling grid, or used with reveal-style grid ceilings (like Armstrong's Silhouette-style grid system). Together, these two models accommodate a wide variety of LCD/DLP projectors, including those with offset lenses.

At the heart of the REVELATION's dual first surface mirror system is two 10 mm thick, optical-grade glass mirrors that are 94% reflective. This mirror system provides for optimum flatness and reflectivity.

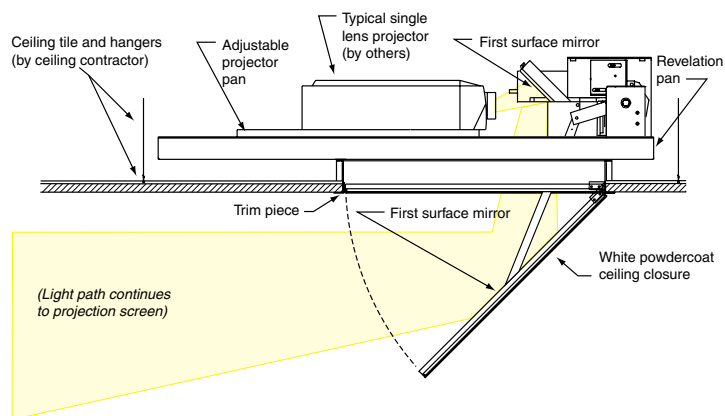
Combine the REVELATION with a ceiling-recessed DRAPER projection screen and take your projection showmanship to a new level.

## System Options

- **Plenum Enclosure**—Aluminum enclosure for use in return air plenum. Includes intake and exhaust fan system with 4" couplers for connection to ventilation ducts.
- **Ceiling Access Door**—A 2' x 2' hinged door provides above-the-ceiling access for cleaning, maintenance or repairs without having to damage the ceiling. Available with a white painted finish or recessed to accept ceiling tile.
- **Glass Shield**—Made of anti-reflective glass and installed between the REVELATION and the first surface mirror/ceiling closure. Reduces projector noise by an additional 80%, and prevents cigarette smoke, grease or other harmful substances from reaching the projector. Virtually none of the projected light is lost as it passes through the SHIELD.
- **Control Options**—Refer to page 25.



*Revelation and Access/Series V installation at Walter & Haverfield LLP, Cleveland, Ohio. Design/Installation: Advanced Cable Technologies, Broadview Heights, Ohio. Photography: Hal Stata, Cleveland. U.S. Patent No. 6,379,012.*



Revelation Dimensions & Data	Model A	Model B
Overall unit size (HWL)	13" x 38 <sup>1</sup> / <sub>4</sub> " x 34"	13" x 38 <sup>1</sup> / <sub>4</sub> " x 44"
Required space above ceiling*	13 <sup>5</sup> / <sub>8</sub> " x 38 <sup>1</sup> / <sub>4</sub> " x 34"	13 <sup>5</sup> / <sub>8</sub> " x 38 <sup>1</sup> / <sub>4</sub> " x 44"
Clearance below ceiling	approx. 17"	approx. 17"
Rough ceiling opening for motorized door	23 <sup>1</sup> / <sub>2</sub> " x 23 <sup>1</sup> / <sub>2</sub> "	23 <sup>1</sup> / <sub>2</sub> " x 23 <sup>1</sup> / <sub>2</sub> "
Capacity	100 lbs.	100 lbs.
Door's downward travel distance	approx. 17"	approx. 17"
Travel time	9 sec.	9 sec.
Net weight	85 lbs.	90 lbs.
Projector space (HWL)—To fit within parameters of inner pan. Request planning sheet.		
*13 <sup>5</sup> / <sub>8</sub> " is overall height of REVELATION with plenum housing. (13" without plenum).		



## Orbiter

*You won't see the projector until it orbits into place.*

The ORBITER is an exciting new projector mounting solution. Ingenious design allows the ORBITER to fit in small ceiling cavities. It is the only lift that can be installed in an angled ceiling, even into a wall, making it uniquely versatile. The lift conceals the projector above the ceiling and quickly rotates it into the "show" position at the touch of a switch or wireless transmitter.

The ORBITER is supplied with a universal-style bracket that allows for easy attachment of a variety of projector models. The ORBITER can also be used for videoconferencing cameras, speakers, etc.

The ORBITER can be operated by optional IR or RF remote control, standard wall switch, or integrated into your control system. The ORBITER motor is a DC—low voltage motor, 12V, which allows for easier control and wiring of the lift.

### System Options

- **Plenum housing**—Aluminum enclosure for use in return air plenum.
- **Angled Ceiling Adapter**—for mounting on angled ceilings or walls.
- **DC Motor Control**—required for IR/RF/Serial/Network.
- **Control Options**—3-button up-stop-down switch, IR or RF.

### Orbiter Dimensions & Data

	Model A	Model B
Overall Size (W x L x H)	23" x 25 <sup>9</sup> / <sub>16</sub> " x 14"	27" x 29 <sup>1</sup> / <sub>2</sub> " x 16"
Ceiling Panel Size (W x L)	19 <sup>9</sup> / <sub>16</sub> " x 17 <sup>5</sup> / <sub>8</sub> "	23 <sup>9</sup> / <sub>16</sub> " x 21 <sup>9</sup> / <sub>16</sub> "
Installation Height (without plenum)	14"	16"
Net Weight of Unit	33 lbs.	38 lbs.
Lifting Capacity	26 lbs.	26 lbs.
Maximum Projector Width	17"	20 <sup>3</sup> / <sub>4</sub> "
Control Included	Wall Switch	Wall Switch
Control Options	IR or RF Remote	IR or RF Remote



## Phantom

*Hiding in the ceiling, only to reveal itself at just the right time.*

The all new and totally unique PHANTOM is a clever alternative to other video projector lifts. It quickly and quietly dips the projector out of the ceiling and into the "show" position at the touch of a switch or wireless transmitter. The audience will think it materialized like an apparition.

The projector is mounted into a framework above the ceiling. When activated, a trapdoor lowers the projector into your room using a precision actuator with pre-set limits. The projector is easily aligned during installation to provide a direct light path onto your DRAPER projection screen.

The PHANTOM is supplied with a universal-style bracket that allows for easy attachment of a variety of projector models. Two PHANTOM models to choose from that fit most projectors up to 26 lbs. The PHANTOM motor is a DC—low voltage motor, 24V, which allows for easier control and wiring of the lift. The PHANTOM can also be used for videoconferencing cameras, speakers, etc.

### System Options

- **Plenum housing**—Aluminum enclosure for use in return air plenum.
- **Ceiling access door**—for easier access after installation.
- **DC Motor Control**—required for IR/RF/Serial/Network.
- **Control Options**—3-button up-stop-down switch, IR or RF.

### Phantom Dimensions & Data

	Model A	Model B
Overall Size (W x L x H)	17 <sup>5</sup> / <sub>8</sub> " x 25 <sup>9</sup> / <sub>16</sub> " x 14 <sup>1</sup> / <sub>4</sub> "	21 <sup>5</sup> / <sub>16</sub> " x 32 <sup>3</sup> / <sub>4</sub> " x 17 <sup>3</sup> / <sub>4</sub> "
Ceiling Panel Size (W x L)	15 <sup>5</sup> / <sub>8</sub> " x 15 <sup>5</sup> / <sub>8</sub> "	19 <sup>9</sup> / <sub>16</sub> " x 19 <sup>9</sup> / <sub>16</sub> "
Installation Height (without plenum)	14 <sup>1</sup> / <sub>2</sub> "	18"
Net Weight of Unit	18 lbs.	27 lbs.
Lifting Capacity	26 lbs.	26 lbs.
Maximum Projector Width	13"	16 <sup>7</sup> / <sub>8</sub> "
Control Included	Wall Switch	Wall Switch
Control Options	IR or RF Remote	IR or RF Remote

*Please visit us 24-hours a day on the Web at [www.draperinc.com](http://www.draperinc.com) to download specifications, CAD details, submittals and installation instructions.*



Winner of the 2006 ADEX Platinum Award. The PHANTOM was recognized by the judges for its superior product design and quality. The platinum award is the highest level of recognition.

# Micro Projector Lift

*Designed for today's smaller projectors.*

The MICRO PROJECTOR LIFT (MPL) is small and convenient, just like the projectors it is designed to accommodate. Weighing only 35 pounds, it can be installed in an existing 2' x 2' ceiling opening without disturbing the ceiling framework. All components can be serviced from below the unit. The projector's "show" position can be set at any point with infinite adjustability, up to 48" extension.

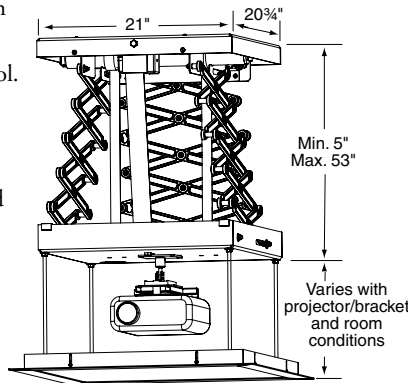
The MICRO PROJECTOR LIFT utilizes the same exclusive 3-scissor design as DRAPER's popular SCISSOR LIFT (see page 23), but features a compact side-folding scissor. The load is lifted by two 1" wide Kevlar® straps. Safety belt provides extra protection. Closed height of lifting unit is only 5" tall (not including projector, mounting mechanism or closure), so a minimal amount of overhead ceiling space is required.

## System Options

- **Ceiling closure panel**—White closure panel is optional and can also be adapted to attach ceiling tile to match surrounding ceiling. Ceiling closure panel option shown in photos at right.
- **Plenum housing**—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- **Ceiling finish kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **Projector mounting bracket**—The SMS LOW PROFILE MOUNT is described below. Projector may also be mounted flush to bottom pan.
- **Factory installed cables** for RGBHV, Video and Control.
- **Ceiling access door**—A 2' x 2' hinged door provides access to the MPL above a finished ceiling for cleaning, maintenance or repairs without having to damage the ceiling. Available with a white painted finish or recessed to accept ceiling tile.
- **Controls**—Described on page 25.



*Kevlar® is a registered trademark of DuPont.*



*MPL installations, both featuring optional ceiling closure. Photography by Wayne Williams, Indianapolis, IN. U.S. Patent Nos. D395,909 and 6,637,711. Other patents pending.*

## Micro Projector Lift

Height of lift in closed position <sup>1</sup>	5"
Overall lift dimensions (W x L)	21" x 20 3/4"
Ceiling opening	23 1/2" x 23 1/2"
Optional plenum housing (trim edge to trim edge) <sup>2</sup>	23 7/8" x 23 7/8"
Max. projector size (W x L) <sup>3</sup>	20" x 20"
Max. down travel	4'
Capacity	35 lbs.
Capacity with SMS LOW PROFILE MOUNT	26 lbs.
Net weight of lift	35 lbs.
Amperes <sup>4</sup>	1.2

<sup>1</sup> Not including projector, mount/bracket or optional closure. Optional SMS LOW PROFILE MOUNT adds 4 7/8" to unit height (including SMS UNIVERSAL PROJECTOR BRACKET).

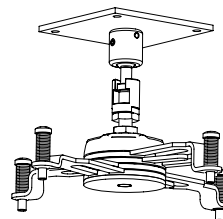
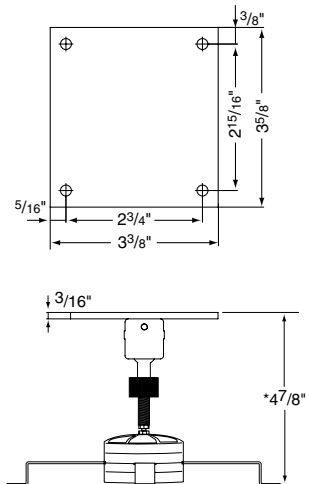
<sup>2</sup> Max. plenum height: 20 5/8". Min. plenum height: 12 5/8"

<sup>3</sup> Max. available projector/bracket height (with Plenum): 13 1/2"  
Min. available projector/bracket height (with Plenum): 5 1/2"

<sup>4</sup> Does not include any load placed on MPL's pre-wired power cable.

# SMS Low Profile Mount

Fixed mount for "low profile" ceiling installations with our SMS UNIVERSAL PROJECTOR BRACKET for projectors weighing less than 26 pounds. Places top of projector only 4 7/8" from ceiling (\*may vary slightly according to choice of projector). Ball joint adjusts infinitely up to 30° pitch, 30° roll and 360° yaw. The SMS LOW PROFILE MOUNT may be used in all DRAPER projector lifts.



# Scissor Lift Series— SL & SLX

*The original scissor lift with “store, show and service” positions.*

DRAPER’S SCISSOR LIFT will retract your projector to ceiling level or above, then lower it to the exact projection and service positions you require. DRAPER factory sets all three positions—“store”, “show” and “service”—to your specifications, and adjustments are easy after installation.

Scissors on the left, right and back sides of the unit stabilize the projector from any sway both laterally and front-to-back.

SCISSOR LIFT models SL4-SL10 feature a small footprint: 23” wide and 23½” deep.

Projectors can be bolted directly to the lift’s bottom pan, or mounted with the optional SMS LOW PROFILE MOUNT (see page 22). The movement of the pan is driven by a gearmotor with a powerful, reliable metal chain drive system. Each lift is equipped with a fail-safe inertial safety belt system and a cable management system that includes a pre-wired power cable on the back scissor, bringing 110V current right to your projector.

Operation is 115V; switching is 12V. Lifting capacity is 350 lbs.

## *Lowers projector up to 17’*

Seven SCISSOR LIFT SLX models offer “service” positions ranging from 11’ to 17’. A slightly larger footprint (27” wide x 29½” deep) allows for the extended travel with no loss of stability. Lifting capacity is 350 lb.

### *System Options*

- **Ceiling Closure Panels for SL & SLX Series**—Universal steel ceiling closure, with a recess to accept ceiling tile, or with a smooth surface finished in white. Six sizes available. Select size based on maximum size of projector or other equipment being used. See specifications on the Web at [http://www.draperc.com/Lifts\\_Mounts\\_Brackets/Scissor\\_Lift.htm](http://www.draperc.com/Lifts_Mounts_Brackets/Scissor_Lift.htm).
- **Plenum housing**—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- **Ceiling finish kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **Projector mounting bracket**—The SMS LOW PROFILE MOUNT is described on page 22. Projector may also be mounted flush to bottom pan.

- **Factory installed cables** for RGBHV, Video and Control.
- **Ceiling access door**—A 2’ x 2’ hinged door provides access to the SL and SLX above a finished ceiling for cleaning, maintenance or repairs without having to damage the ceiling. Available with a white painted finish or recessed to accept ceiling tile.
- **Decorative Cover**—An accordion-action shroud that completely covers all 4 sides of the SCISSOR LIFT SL above the projector. White cover conceals scissors in the “show” position. Detaches automatically at pan when lift extends to “service” position. Maximum extension of cover is 48”. Compatible with optional CEILING CLOSURE PANELS S, E, J and G.
- **Controls**—Described on page 25.



*Scissor Lift installation by Kikuchi Science Laboratory at Rise Corporation, Tokyo, Japan. Photography provided by Naoki Ikeda. U.S. Patent No. D395,909.*

### *Scissor Lift SL Series*

Model Number	SL4	SL5	SL6	SL7	SL8	SL9	SL10
Height of lift in closed position <sup>1</sup>	8½”	9½”	10½”	11½”	12½”	13½”	14½”
Max. down travel (service position)	4’	5’	6’	7’	8’	9’	10’
Approx. travel time to service position	36 sec.	45 sec.	54 sec.	63 sec.	72 sec.	81 sec.	90 sec.
Net weight (lbs.)	120	125	130	135	140	145	150

### *Scissor Lift SLX Series*

Model Number	SLX11	SLX12	SLX13	SLX14	SLX15	SLX16	SLX17
Height of lift in closed position <sup>1</sup>	13¾”	15¾”	15¾”	16¾”	16¾”	18¾”	18¾”
Max. down travel (service position)	11’	12’	13’	14’	15’	16’	17’
Approx. travel time to service position	99 sec.	108 sec.	117 sec.	125 sec.	134 sec.	143 sec.	152 sec.
Net weight (lbs.)	160	165	170	175	180	185	190

<sup>1</sup> Only height of SCISSOR LIFT in closed position. Overall height of projector, plus optional mount, plus optional ceiling closure, plus optional plenum housing adds to overall height of equipment installed above ceiling. SMS LOW PROFILE MOUNT and SMS UNIVERSAL PROJECTOR BRACKET add 4¾” to height.

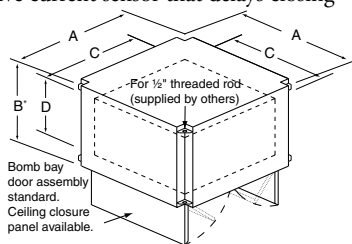
# LCD Lift

Bomb bay doors and a slim cross-section distinguish the LCD LIFT. Most popular LCD and DLP projectors fit comfortably inside this unit, which is available in two sizes—MODEL A and MODEL B. Bomb bay style closure doors are standard.

Plenum housing of aluminum, with closure doors finished in white are standard. Contains internal switched duplex receptacle, 115V AC, which is powered when the unit is fully down. The LCD LIFT contains an innovative current sensor that delays closing of the unit until the projector lamp has shut off. Lifting capacity 65 lbs.

## System Options

- **Ceiling Closure Panel**—Universal steel ceiling closure in a white baked enamel finish or recessed to accept ceiling tile.
- **Ceiling Access Door**—A 2' x 2' hinged door to access lift above a finished ceiling for cleaning, maintenance or repairs without having to damage the ceiling. Available with a white painted finish or recessed to accept ceiling tile.
- **SMS Low Profile Mount**—For projectors weighing less than 26 pounds. Details on page 22.
- **Factory installed cables**—for RGBHV, Video and Control.
- **Control Options**—Operated by one 115V rocker switch. For more options, refer to page 25.



	Model A	Model B
A	24"	29"
B*	17 <sup>3</sup> / <sub>4</sub> "	22 <sup>3</sup> / <sub>4</sub> "
C	18"	23"
D	11"	16"

\*Ceiling closure panel adds 3/8" to dimension B.



LCD Lift Model A with standard bomb bay closure located at Manitowoc Beverage Equipment, Sellersburg, IN. Installation by ISSG and photography by Kenneth Hayden, both of Louisville, KY.

# AeroLift 25, 50 & 150

Three models to lift up to 25, 50 or 150 lbs. With a simplified design, AEROLIFTS install in even the tightest spots. They offer a different look than the mechanical one of scissor lifts. Visit our web site for more details: [www.draperinc.com](http://www.draperinc.com).

All three models are powered by strong tubular motors for a simplified design, and feature a stabilizing arm which can be used for cable management. Built-in adjustability allows you to deal with job site conditions quickly and easily, like slightly out of square or irregularly spaced joists. All components can be serviced from below. Projector can be mounted flush to bottom pan, or with SMS Low Profile Mount. SMS UNIVERSAL BRACKET enables instant registration of projected image.

**Note:** The AEROLIFT 25, 50 and 150 can also be used to recess speakers, security cameras, videoconferencing cameras or document cameras.

## System Options

- **Ceiling closure panel**—Universal steel ceiling closure in a white baked enamel finish or recessed to accept ceiling tile.
- **Plenum housing**—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- **Ceiling finish kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **Control Options**—Operated by one 115V rocker switch. For more options, refer to page 25.

	AeroLift 25 w/Small Plenum and Closure	AeroLift 25 w/Large Plenum and Closure	AeroLift 50 <sup>1</sup>	AeroLift 150 <sup>1</sup>
Height of lift in closed position <sup>2</sup>	4"	4"	6 <sup>1</sup> / <sub>4</sub> "	6 <sup>1</sup> / <sub>4</sub> "
Max. overall lift dims (w x l)	22 <sup>1</sup> / <sub>4</sub> " x 14"	22 <sup>1</sup> / <sub>4</sub> " x 14"	28 <sup>1</sup> / <sub>4</sub> " x 15"	31 <sup>1</sup> / <sub>4</sub> " x 15 <sup>7</sup> / <sub>8</sub> "
Ceiling opening (with closure w x l)	14 <sup>1</sup> / <sub>16</sub> " x 23 <sup>3</sup> / <sub>8</sub> "	24" x 24"	29 <sup>1</sup> / <sub>2</sub> " x 29 <sup>1</sup> / <sub>2</sub> "	29" x 39 <sup>1</sup> / <sub>2</sub> "
Optional plenum housing (w x l)	14 <sup>9</sup> / <sub>16</sub> " x 23 <sup>7</sup> / <sub>8</sub> " <sup>3</sup>	25" x 25" <sup>3</sup>	30 <sup>1</sup> / <sub>2</sub> " x 29 <sup>3</sup> / <sub>8</sub> "	31 <sup>3</sup> / <sub>4</sub> " x 39 <sup>5</sup> / <sub>8</sub> "
Max. projector size (w x l) <sup>4</sup>	8 <sup>3</sup> / <sub>4</sub> " x 18"	20" x 20"	18 <sup>3</sup> / <sub>4</sub> " x 25 <sup>1</sup> / <sub>2</sub> "	24 <sup>3</sup> / <sub>4</sub> " x 35"
Max. down travel	20"	20"	32"	32"
Approx. travel time to lowest position	14 sec.	14 sec.	23 sec.	23 sec.
Total capacity (lbs.) <sup>5</sup>	25	25	50	150
Net weight of lift (lbs.) <sup>6</sup>	20	20	28	32
Amperes	1.2	1.2	1.2	1.2

<sup>1</sup> AEROLIFT 50 and AEROLIFT 150 are available with only one size plenum and closure.

<sup>2</sup> Not including projector, plenum or closure. Optional SMS LOW PROFILE MOUNT and UNIVERSAL PROJECTOR BRACKET add 4<sup>7</sup>/<sub>8</sub>" to height of all AEROLIFTS.

<sup>3</sup> Maximum Plenum Height: 20<sup>1</sup>/<sub>2</sub>". Min. Plenum Height: 12<sup>1</sup>/<sub>2</sub>".

<sup>4</sup> AEROLIFT 25 max. available projector/bracket height (with both plenums): 15<sup>3</sup>/<sub>4</sub>".

AEROLIFT 25 min. available projector/bracket height (with both plenums): 7<sup>3</sup>/<sub>4</sub>".

AEROLIFT 50 max. available projector/mount height (with plenum): 18<sup>1</sup>/<sub>2</sub>".

AEROLIFT 50 min. available projector/mount height (with plenum): 16<sup>1</sup>/<sub>2</sub>".

AEROLIFT 150 max. available projector/mount height (with plenum): 20<sup>1</sup>/<sub>2</sub>".

AEROLIFT 150 min. available projector/mount height (with plenum): 18<sup>1</sup>/<sub>2</sub>".

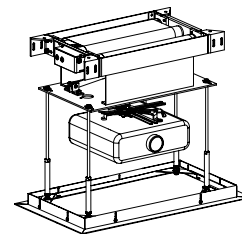
<sup>5</sup> AEROLIFT 25 small closure weighs 7.5 lbs.

AEROLIFT 25 large closure and angle brackets weigh 10 lbs.

AEROLIFT 50 closure and angle brackets weigh 10 lbs.

AEROLIFT 150 closure and angle brackets weigh 10 lbs.

<sup>6</sup> Unit Only: Does not include projector, mount, plenum or closure.



Patent Pending

# Controls for Motorized Screens and Video Projector Lifts

**Single Station Control ①**—Standard with most DRAPER electrically operated screens and all DRAPER video projector lifts. One 3-position rocker switch: 115V for all motorized screens, LCD LIFT, AEROLIFT 25 and MICRO PROJECTOR LIFT; 24V for REVELATION; one 3-position 12V toggle switch for SCISSOR LIFT (with momentary key switch for service position). Switch operation is maintained contact. Complete with stainless steel cover plate. UL listed.

**115 Volt Multiple Station Controls ①**—Identical in appearance to SINGLE STATION CONTROL, see above. Automatic override allows only one signal to reach motor when switches are operated simultaneously.

**\*Low Voltage Controls ② & ③**—Install switches everywhere they're needed, add wireless transmitter (below) or interface with a master control system. Three-button switches have neutral decorator face plates for flush wall mounting. The LOW VOLTAGE CONTROL unit is also equipped with jacks for easy connection to DRAPER RF and IR receivers (see below). Wiring from control unit to switches or receivers is lightweight for 24 volt current. Optional for all DRAPER motorized screens, except ACCESS SONATA, and all video projector lifts.

**\*Radio Frequency Remote Control ② & ④**—Hand-held transmitter. 3-button control lets you raise or lower screen or adjust format at any point. Receiver plugs into the DRAPER LOW VOLTAGE CONTROL unit (required, see above).

**\*Infrared Remote Control ② & ⑤**—Infrared transmitter and receiver. 3-button operation for instant access to “up”, “down” and “stop” functions. Fully compatible with “learnable” IR master control systems. Receiver plugs into DRAPER LOW VOLTAGE CONTROL unit (required, see above).

**Key Operated Power Supply Switch ⑥**—Useful with any control system for a DRAPER electrically operated projection screen or a DRAPER projector lift—low voltage or 115V. Key switch mounts next to operating switch and controls power to it.

**Locking Switch Cover Plate ⑦**—A 3-position control switch for limited access. Cover plate and locking switch cover are brushed stainless steel. Two keys furnished. 115V only.

**Key Operated 3-Position Switch ⑧**—Similar to DRAPER's standard 3-position control switch, but requires a key for operation. 115V and low voltage style available. When used alone, a maintained contact switch is provided. With LOW VOLTAGE CONTROL ②, a momentary contact switch is provided. The low voltage control functions as a latching relay, so screen will operate all the way up or down when switch is activated. Two keys provided.

## MC1: New Low Voltage Option with RS232

DRAPER'S MC1 MOTOR CONTROL BOARD provides multiple options to control a projection screen's motor or a lift's motor. UL approved. Accepts 2-way serial communication, infrared commands via IR receiver, and relay closures found in home integration systems: RS232. Radio frequency is also available. Connected to the optional IntelliFlex® IPD-4 Ethernet Interface, the MC1 may also be controlled remotely via a computer network in groups of up to 4 systems, 60 motors each max. Available as an external option for all motorized screens, AEROLIFTS, MPLs and LCD Lifts.

**\*Video Interface Control**—Operate a DRAPER video projector lift in tandem with a DRAPER motorized projection screen using the VIDEO INTERFACE CONTROL. The VIC replaces the screen's switch; for the projector lift, use the standard switch or any control described above. Touch the switch—or wireless remote control—and the video projector lift and projection screen descend. At the end of the presentation, flip the switch and the lift and screen will rise automatically. Not available for MPL, AEROLIFT 25, PHANTOM or ORBITER. Model VIC115 integrates screen operation with equipment with a 115V switched outlet. Models VIC12 & VIC6 interface screen operation with equipment featuring a 12V/6V output. The VIC115, VIC12 & VIC6 may be purchased with an override switch (VIC-OS), permitting independent operation. *A VIC is not compatible with an LVC-III, built-in or otherwise.*

*\* These optional controls may be factory-installed into the case of Access, Ultimate Access and Silhouette screens at no extra charge. Built-in controls may increase length of case, except for the Ultimate Access series. Call for exact dimension if critical. Choose either an LVC-III with or without a wireless transmitter, or choose a VIC. LVC-III and VIC are not compatible on a single motor, built-in or otherwise. Both may be used in an Access MultiView, which has two independently controlled motors. Low voltage and remote controls may also be factory installed in the Signature case.*

**Controls for Access Sonata**—A programmable low voltage 6-button wall switch that DRAPER presets with four format settings is standard. Change to any format at the touch of *one* button! This switch is compatible with multiple stations and the optional SONATA IR remote control.



Standard switch for motorized screens, MPL, Revelation and AeroLift 25



Standard switch for LCD Lift



Standard switch for Scissor Lift



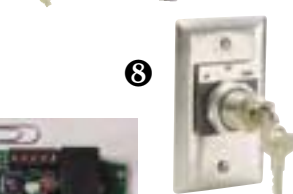
LVC-S



WRT/R



IR



VIC-115



VIC-6 or VIC-12



Sonata wall switch

# SMS Mounts & Accuset Mounts

*For LCD/DLP projectors.*

DRAPER continues to offer the most sophisticated, comprehensive and functional line of mounts for video projectors and digital displays: SMS MOUNTS. SMS MOUNTS enable ceiling installation of LCD/DLP projectors and wall, ceiling or floor installation of plasma/LCD displays with built-in adjustability.

## Inspired Design

DRAPER SMS MOUNTS complement the latest generation of LCD and DLP projectors. But more than a shapely column, SMS MOUNTS have innovative features that simplify installation.

## Function and Form

SMS MOUNTS combine stylish appearance with unique features, such as infinite height adjustment, built-in cable management and an infinitely adjustable ball joint for instant registration of the projected image.

## Installer Friendly

The SMS UNIVERSAL PROJECTOR BRACKET takes the guesswork out of projector bracket selection. It attaches to a projector in seconds. Its infinite adjustability enables you to quickly find and secure the projector's center of gravity, so the projector hangs level. And if you upgrade your projector, there's no need to buy a new bracket. With simplified installation procedures and the SMS UNIVERSAL PROJECTOR BRACKET, an SMS MOUNT is an innovative and attractive ceiling mount for your projector.

# SMS Universal Projector Bracket

DRAPER has solved the projector bracket problem with a bracket that fits virtually any LCD/DLP projector.\*

The SMS UNIVERSAL PROJECTOR BRACKET is furnished with four short and four long horizontal bracket arms and four vertical spacers. You can mix and match bracket arms as needed to fit your projector. Adjustability, both horizontally and vertically, enables you to find and secure the projector's center of gravity in seconds, so projector will hang level.

The SMS UNIVERSAL PROJECTOR BRACKET is standard on all SMS and ACCUSET projector mounts.

*\*Any LCD/DLP projector designed for inverted ceiling-mounting, with threaded mounting holes on the bottom of projector, weighing 26 pounds or less.*

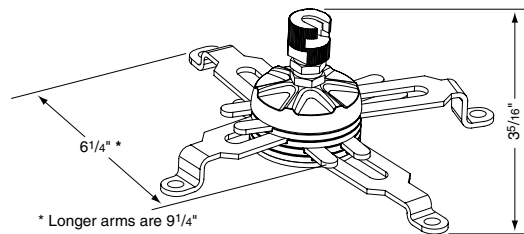
*Attach an SMS Universal Projector Bracket to an LCD projector, and then to an SMS Mount or Accuset Mount.*



*Draper SMS Mount and Rolleramic projection screen. Earlham College, Richmond, IN. Installation by MCSi, Indianapolis. Patent pending.*



*An SMS Universal Projector Bracket comes assembled with short bracket arms, but longer bracket arms (included) are interchangeable. Mix and match with the various bolts and vertical spacers (included) as needed for your projector.*



# SMS Accuset Mounts for LCD/DLP Projectors

## Fixed and adjustable length column mounts

The ACCUSET family of LCD/DLP projector mounts dramatically increases the number of installations you can address with DRAPER mounts. DRAPER has the solution for any installation—from flush ceiling mounting to 12' of drop.

All mounts include the UNIVERSAL PROJECTOR BRACKET\* (see page 26) to fit any projector designed for inverted mounting with threaded mounting holes on bottom. Maximum load is 26 pounds.

All ACCUSET projector mounts offer infinite adjustment of the projector up to 30° pitch, 30° roll and 360° yaw. Both the adjustable-length and fixed-extension mounts provide built-in cable management.

ACCUSET has four options to choose from, depending on jobsite conditions and your own preferences—

### Accuset Fixed-Extension Mount

Consists of CEILING PLATE, BRACKET ADAPTER, UNIVERSAL PROJECTOR BRACKET and one section of 1½" diameter NPT pipe, threaded and slotted on each end. Available in 13 standard lengths (see chart on page 28).

### Accuset Adjustable Mount

Consists of CEILING PLATE; two-piece telescoping NPT pipe (2" diameter upper section and 1½" diameter lower section) threaded and slotted on each end, in seven adjustable ranges from which to choose (see chart below); EXTENSION ADAPTER; BRACKET ADAPTER; and SMS UNIVERSAL PROJECTOR BRACKET.

*Exclusive feature*—This mount is infinitely adjustable within its specified range to place projector at the preferred height. A positive stop prevents separation of pipe, and the EXTENSION ADAPTER locks the lower pipe in final position.

### Accuset Component Kit

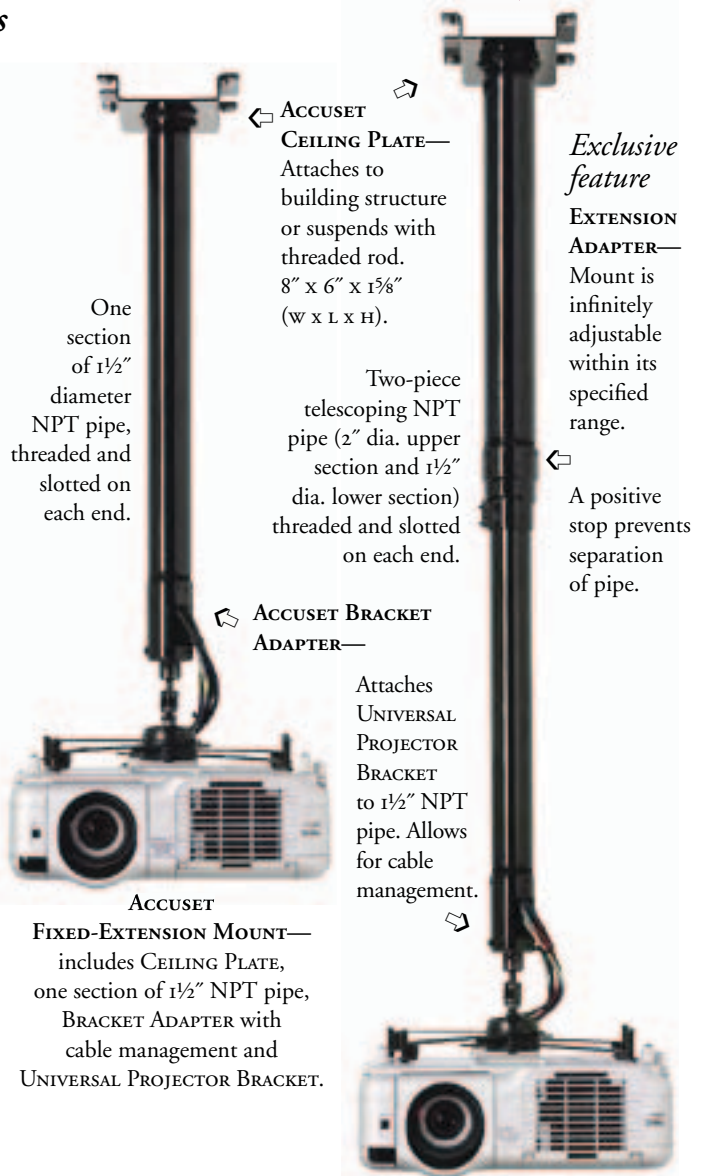
Consists of CEILING PLATE, BRACKET ADAPTER and UNIVERSAL PROJECTOR BRACKET. You furnish 1½" diameter NPT pipe in your required length. Pipe must be threaded on each end.

### Build Your Own Accuset Kit

Order just the pieces you need for your job requirements. Choose from CEILING PLATE, BRACKET ADAPTER, EXTENSION ADAPTER, UNIVERSAL PROJECTOR BRACKET, 1½" diameter NPT fixed pipe section in 13 available lengths (may be cut to fit at the job site and threaded on each end), and adjustable pipe sections in seven available ranges.

\*The UNIVERSAL PROJECTOR BRACKET fits the vast majority of LCD/DLP projectors designed for inverted mounting, with threaded mounting holes, weighing 26 pounds or less. Accommodates more than 90% of projector installations. If your projector requires a specific bracket, we will supply it. If unsure, refer to <http://www.draperinc.com/moreinfo/universal>.

Please visit us 24-hours a day on the Web at [www.draperinc.com](http://www.draperinc.com) to download specifications, CAD details, submittals and installation instructions. To receive an architectural specification CD-ROM, product cut sheets or additional literature, contact Draper by calling, faxing or e-mailing.



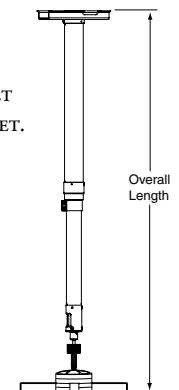
ACCUSET  
FIXED-EXTENSION MOUNT—  
includes CEILING PLATE,  
one section of 1½" NPT pipe,  
BRACKET ADAPTER with  
cable management and  
UNIVERSAL PROJECTOR BRACKET.

ACCUSET ADJUSTABLE MOUNT—  
includes CEILING PLATE, two-piece  
telescoping NPT pipe, EXTENSION  
ADAPTER, BRACKET ADAPTER and  
UNIVERSAL PROJECTOR BRACKET.

Accuset Adjustable Mount  
Overall length includes: CEILING PLATE, BRACKET  
ADAPTER and SMS UNIVERSAL PROJECTOR BRACKET.

Column Length	Overall Length*
6"–8½"	15¾"–17¾"
12"–20½"	21¾"–29¾"
20½"–37½"	29¾"–46¾"
36"–68½"	44¾"–77¾"
48"–92½"	57¾"–101¾"
60"–116½"	69¾"–125¾"
72"–140½"	81¾"–149¾"

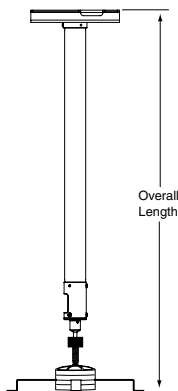
\*Assembled dimension tolerance: ±¼".



**Accuset Fixed-Extension Mount**

Overall length includes: CEILING PLATE, BRACKET ADAPTER and UNIVERSAL PROJECTOR BRACKET.

Pipe Length*	Overall Length
Flush	10½"
6"	14½"
12"	20½"
18"	26½"
24"	32½"
36"	44½"
48"	56½"
60"	68½"
72"	80½"
84"	92½"
96"	104½"
108"	116½"
120"	128½"



\*Pipe length may be cut by installer to fit site requirements.

**Accuset Options & Accessories**

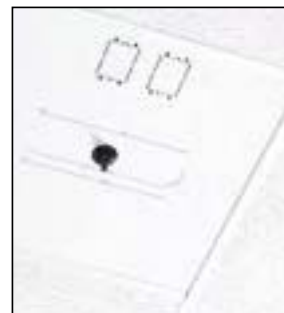
• **Accuset Angled Ceiling Plate**

8" W X 6" L X 2" H plate attaches to vaulted or angled ceilings. Adjusts from 0-25° allowing the projector to remain level. Must be used with ACCUSET CEILING PLATE.



• **Accuset Low Profile Suspended-Ceiling Panel**

Steel panel suspends from structure to fit within 2' x 2' ceiling grid. 23¾" x 23¾" white panel provides 10" of overall lateral adjustment for precise projector placement, plus a ball joint for attaching a UNIVERSAL PROJECTOR BRACKET.



• **Accuset Suspended-Ceiling Panel**

Same size steel panel as above without a ball joint. Instead, 1½" and 2" ACCUSET pipe will attach directly to threaded opening.



• **Security Lock Kit**

While no system can guarantee complete security, the SECURITY LOCK KIT is an excellent deterrent. Designed to keep your projector safe and secure when mounted to an SMS or ACCUSET PROJECTOR MOUNT. Kit includes 6' cable, key lock, 2 loopers, flexible adhesive pad and microslot lock.



• **Escutcheon Ring**

Chrome ring trims the rough cut of the ceiling through which the ACCUSET column descends. Shaped to fit outer column. Chrome rings available for 1½" and 2" diameter ACCUSET MOUNTS.



(Left) Three Accuset mounts field painted white. Location: First Baptist Church of Sebring, Florida. Design/Installation: Bassett Electronics, Inc., Sebring. Photography: © 2005 Kent Smith, Charlotte, NC.

# SMS Mounts for LCD/DLP Projectors

Extruded aluminum column in your choice of five extension ranges, from 11¾" to 51¼". Telescoping. Inner column has a mechanical safety stop to prevent it from disengaging from outer column. Maximum capacity 26 pounds. See dimensions below and details of features to the right. Silver finish.



Adjustable steel ceiling-mounting plate has slotted screw holes for fine adjustments.

Telescoping extruded aluminum column in your choice of 5 extension ranges. Silver finish.

Inner column is infinitely adjustable within the specified range. Loosen a concealed setscrew, lower to the exact extension you need and tighten the screw.

Please visit us 24-hours a day on the Web at [www.draperinc.com](http://www.draperinc.com) to download specifications, CAD details, submittals and installation instructions. To receive an architectural specification CD-ROM, product cut sheets or additional literature, contact Draper by calling, faxing or e-mailing.



Ease of installation— One screw adjusts column pitch  $\pm 30^\circ$ . Adapts to cathedral ceilings without special fixtures.



Races for cable management are concealed by "peel off" moldings. Conveniently located on sides of the column. Hide almost any combination of cables without threading them through a column. Put cables into races after making connections to projector.

Orient your projector quickly with the steel ball-in-socket located at tip of inner column. Provides instant registration of the projected image and adjusts up to 30° pitch, 30° roll and 360° rotation. Locks with a turn of two setscrews.

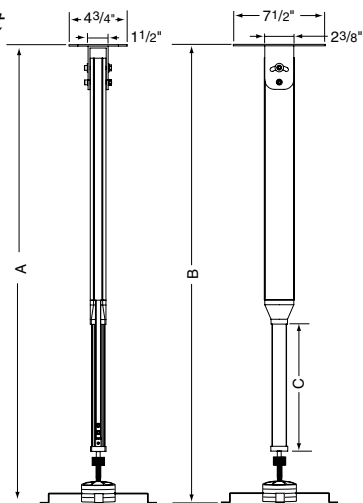


In just seconds, the SMS Universal Projector Bracket attaches to the mount's steel ball joint with twist-lock engagement.

### SMS Adjustable Mount

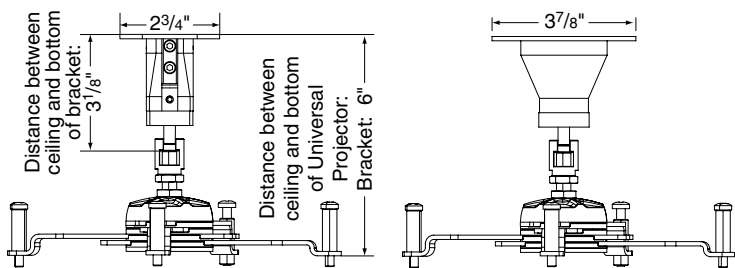
Model	A (Min)	B (Max)	C
CLV 300-350	13 <sup>3</sup> / <sub>8</sub> "	15 <sup>3</sup> / <sub>8</sub> "	2"
CLV 500-750	21 <sup>1</sup> / <sub>4</sub> "	31 <sup>1</sup> / <sub>8</sub> "	9 <sup>7</sup> / <sub>8</sub> "
CLV 650-900	27 <sup>1</sup> / <sub>4</sub> "	37 <sup>1</sup> / <sub>8</sub> "	9 <sup>7</sup> / <sub>8</sub> "
CLV 850-1100	35 <sup>1</sup> / <sub>8</sub> "	45"	9 <sup>7</sup> / <sub>8</sub> "
CLV 1050-1300	43"	52 <sup>7</sup> / <sub>8</sub> "	9 <sup>7</sup> / <sub>8</sub> "

Maximum load—26 pounds  
 Adjustability— *pitch roll yaw*  
 At ceiling plate ±30° 0° 0°  
 At ball joint ±30° ±30° 360°



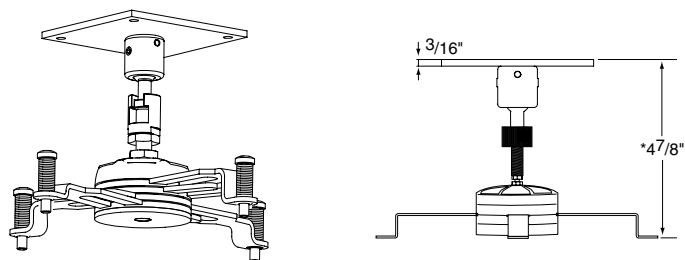
### SMS Model CLV 80

Fixed extension mount for installations close to the ceiling with our SMS UNIVERSAL PROJECTOR BRACKET. Places top of projector only 6" from ceiling (\*may vary slightly according to choice of projector, and choice of mounting technique). Ball joint at end of column adjusts infinitely up to 30° pitch, 30° roll and 360° rotation. For projectors weighing less than 26 lbs.



### SMS Low Profile Mount

Fixed mount for "low profile" ceiling installations with our SMS UNIVERSAL PROJECTOR BRACKET for projectors weighing less than 26 pounds. Places top of projector only 4<sup>7</sup>/<sub>8</sub>" from ceiling (\*may vary slightly according to choice of projector). Ball joint adjusts infinitely up to 30° pitch, 30° roll and 360° yaw. The SMS LOW PROFILE MOUNT may be used in all DRAPER projector lifts.



Draper SMS projector mount and Rolleramic projection screen at Earlham College, Richmond, Indiana.

### SMS Mount Options & Accessories

• **Security Lock Kit**

While no system can guarantee complete security, the SECURITY LOCK KIT is an excellent deterrent. Designed to keep your projector safe and secure when mounted to an SMS PROJECTOR MOUNT. Kit includes 6' cable, key lock, 2 loopers, flexible adhesive pad and microslot lock.



• **Escutcheon Ring**

Flexible ring trims the rough cut of the ceiling through which the SMS column descends. ESCUTCHEON RING is form fitted for the MOUNT. Adhesive tabs included.

• **Escutcheon Clips**

Clips are another option to trim the rough cut of the ceiling opening through which the SMS inner column descends. Snaps against inner column. (SMS MOUNTS featured on page 29.)

# SMS Mounts for Plasma Displays

DRAPER continues to offer the most sophisticated, comprehensive and functional line of mounts for video projectors and digital displays. SMS Mounts enable ceiling installation of LCD/DLP projectors and wall, ceiling or floor installation of plasma/LCD displays with built-in adjustability.

## Inspired Design

As plasma and LCD displays become more prevalent in our work and home environments, the importance of a good-looking “mount” increases, too. Our sophisticated design incorporates cutting edge technology to harmonize with today’s displays.

## Function and Form

SMS MOUNTS combine appearance with features to serve as a functional accompaniment: unique SLIDE MOUNTING SYSTEM; universal and display-specific mounting brackets; height adjustments; and on most models—built-in cable management, rotation, tilt and optional adjustable shelves.

## Installer Friendly

An innovative solution, the keystone-shaped SLIDE MOUNTING SYSTEM makes mounting your display as easy as hanging a picture, and as stable as the wall it’s attached to. Moving or upgrading your display is easy. Our SECURITY LOCK KIT is an excellent theft deterrent. Plus, the UNIVERSAL PLASMA BRACKET (see below) takes the guesswork out of ordering a mounting bracket.

## SMS Slide Mounting System

Each SMS MOUNT consists of an attractive and sturdy mount designed for wall, ceiling or floor mounting, and an SMS UNIVERSAL PLASMA BRACKET or plasma-specific bracket which bolts to the back of the plasma monitor. The bracket has a large keystone shaped plate, which slides into a universal mating bracket on the mount. Once in place, the bracket is secured with lock devices.

The slide system is universal to all brackets and mounts, so it’s easy to move your display from one venue to another. If you buy a new display, you don’t have to buy a new mount.



## Universal Plasma Bracket

DRAPER has solved the problem of choosing a mounting bracket to fit the variety of plasma displays on the market today—with the innovative UNIVERSAL PLASMA BRACKET. The SMS UNIVERSAL PLASMA BRACKET attaches to almost any plasma display through 50° diagonal and under 100 lbs. The bracket comes with a full set of screws, washers, spacers and mounting arms to fit virtually any plasma model. No need to order a plasma-specific bracket!

Specially shaped keystone plate works for both portrait *and* landscape installation on any DRAPER SMS MOUNT FOR PLASMA DISPLAYS—ceiling, floor, wall or mobile. Assembled bracket is less than one inch deep, finished in black. 19½” h x 31” w is the maximum mounting hole pattern.

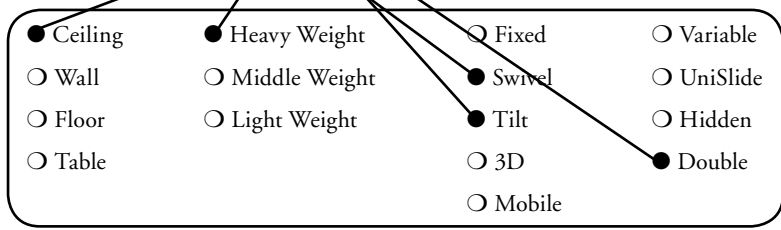
Each SMS Universal Plasma Bracket comes with a full set of screws, washers, spacers and mounting arms. Some displays may require extension plates to fit hole pattern widths between 31½” – 45”. See web site for details.



Two, FH MT1450s at Bumble & Bumble, New York City, NY. Design and installation: Glenn Polly, Videasonic, NYC, NY. Photography: © 2005 Bruce Katz, NYC, NY.

This is how we name our products: the name provides a description of the mount.

### SMS Flatscreen CH STD490/1150



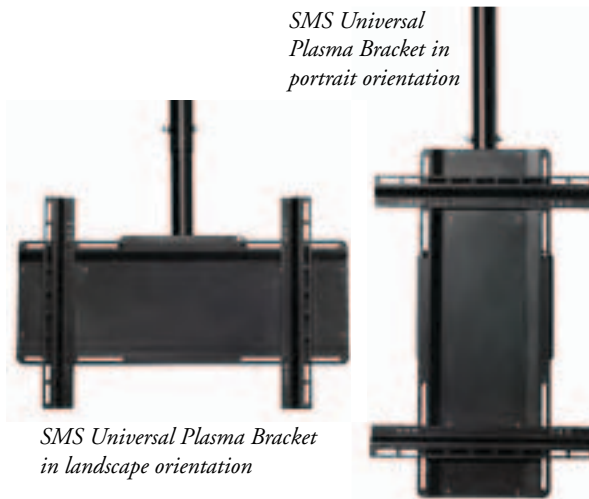
## Cable Management

Conceal your cables inside the column. A discrete channel is provided for cable passage; cables are kept in their channel with a simple clip for easy setup.



Complete SMS Mounts for Plasma Displays specifications: [www.draperinc.com](http://www.draperinc.com).

SMS Universal Plasma Bracket in portrait orientation



SMS Universal Plasma Bracket in landscape orientation

# SMS Wall Mounts for Plasma Displays

## WH T2 Wall Mount

The WH T2 has an extremely low profile, protruding only 1" from the wall (not including universal bracket). It is virtually invisible behind a plasma display. Formed of heavy gauge steel, the WH T2 attaches to two wall studs on 16" centers, with two installation points per stud. This same model also serves as a non-tilting wall mount. The tilting mechanism locks into place. Mount any plasma display flat to the wall or tilted up to 10°. Maximum capacity 330 lbs. A safety lock secures the universal bracket in the WH T2. Black powder coat finish. Specify the universal or display-specific bracket you need. Bracket can be secured with padlock to prevent theft.

WH T2



## WH 3D Wall Mount

The WH 3D provides complete flexibility in positioning your plasma display. Folded flat, it's just 4" from the wall. Yet it floats easily to any position up to 26" away from the wall. Pull it out, move it left-to-right, and tilt it forward (up to 10°), in any combination! This mount is an excellent choice for corner installations. Supports one plasma display (any size through 50" diagonal) with complete stability and safety, in portrait or landscape orientation. Maximum capacity 100 lbs. Bracket can be secured with padlock to prevent theft. Matt black powder coat finish. Specify the universal or display-specific bracket you need. Bracket can be secured with padlock to prevent theft.

WH 3D



## WH ST Wall Mount

The WH ST articulating mount swivels and rotates the display in all directions, limited only by the wall. The WH ST swivels at both the wall and bracket support, so you can position the display close to the wall when not in use. Extends the plasma display up to 27" from wall. Display can be tilted up to 15°. ±90° swivel (depending on size of display). Maximum capacity 164 lbs. Formed entirely of heavy gauge steel. Black powder coat finish. Specify the universal plasma bracket or display specific bracket. Bracket can be secured with padlock.

WH ST



## WH ST400 and WH ST1150 Wall Mounts

Mount plasmas on attractive extruded aluminum columns. Column attaches to wall with heavy-gauge steel mounting plates. Two lock devices secure display in bracket. Display can be mounted either horizontally or vertically. WH ST400 is a 19" column and holds one plasma.

WH ST1150 is a 45" column and holds up to two displays and/or optional shelves. The plasma can be raised and lowered over a 33½" range. Optional shelves in black or grey accommodate VCR, DVD player, amplifier and related equipment.

Display can be tilted up to 15°. 20° rotation. Maximum capacity 330 lbs. Column has built-in cable management system. Black powder coat finish. Specify the universal or display-specific bracket you need. Bracket can be secured with padlock to prevent theft.

WH ST 400



WH ST1150  
with a plasma  
display and an  
optional shelf

## WFH ST2000 Wall-to-Floor Mount

This innovative mount features a 78" extruded aluminum column which attaches to the wall and floor with sturdy steel swivel brackets. Mount up to three plasma displays horizontally, or either one or two vertically, depending on display sizes. Displays can be raised or lowered over a 58" range in 2" increments. Two lock devices secure each display in its bracket. Optional shelves for VCR, DVD player, amplifier and related equipment in black or grey.

WFH ST2000



Please visit us 24-hours a day on the Web at [www.draperinc.com](http://www.draperinc.com) to download specifications, CAD details, submittals and installation instructions. To receive an architectural specification CD-ROM, product cut sheets or additional literature, contact Draper by calling, faxing or e-mailing.

# SMS Ceiling Mounts for Plasma Displays

## CH VST2 Ceiling Mount

Quickly and safely install DRAPER's plasma mount to the ceiling or above it. Attach a universal or display-specific bracket to the back of the plasma and slide its keystone-shaped plate onto the CH VST2 universal mating bracket. Allows up to 24" of vertical adjustment in 4" increments. Display can be tilted up to 25°. 360° rotation. Maximum capacity 220 lbs. Column has built-in cable management system—cables run inside the column. Black powder coat finish. Specify the universal or display-specific bracket you need. Bracket can be secured with padlock to prevent theft.

## CH ST490 and CH ST1150 Ceiling Mounts

The SMS CH ST490 suspends a plasma display from a 19" long extruded aluminum column mounted to a heavy-gauge steel ceiling bracket. Display can also be raised and lowered on column over a 6" range in 2" increments. For screens up to 50" diagonal, the display's center-line can be 33<sup>5</sup>/<sub>8</sub>" to 41<sup>1</sup>/<sub>2</sub>" from the ceiling bracket. For screens 60" diagonal and larger, the display's center-line can be 37<sup>3</sup>/<sub>4</sub>" to 45<sup>5</sup>/<sub>8</sub>" from the bracket.

Need a greater vertical extension? The SMS CH ST1150 is similar to the SMS CH ST490, but offers a 45" long column. Display can be raised and lowered over a 6" range in 2" increments. For screens up to 50" diagonal, the display's center-line can be 59<sup>5</sup>/<sub>8</sub>" to 67<sup>1</sup>/<sub>2</sub>" from the ceiling bracket. For screens 60" diagonal and larger, the display's center-line can be 63<sup>3</sup>/<sub>4</sub>" to 71<sup>5</sup>/<sub>8</sub>" from the ceiling bracket.

For both CH ST490 AND CH ST1150, the display can be tilted up to 15°. 360° rotation at ceiling bracket. Maximum capacity 165 lbs. Black powder coat finish. Specify the universal or display-specific bracket you need. Bracket can be secured with padlock to prevent theft.

## CH STD490 and CH STD1150 Dual Ceiling Mounts

The SMS CH STD490 suspends two plasma displays, back-to-back from a 19" long extruded aluminum column mounted to a heavy-gauge steel ceiling bracket. Display can also be raised and lowered on column over an 8" range in 2" increments. For all screen sizes, the display's center-line can be 29<sup>1</sup>/<sub>8</sub>" to 37" from the ceiling bracket.

The SMS CH STD1150 is similar to the CH ST490, but offers a much longer column: 45". Display can be raised and lowered over a 16" range in 2" increments. For all screen sizes, the display's center-line can be 47<sup>1</sup>/<sub>4</sub>" to 63" from the ceiling bracket.

For both the CH STD490 and CH STD1150, the display can be tilted up to 15°. 360° rotation at ceiling bracket. Maximum capacity 325 lbs. Black powder coat finish. Specify the universal or display-specific brackets needed. Bracket can be secured with padlock to prevent theft.

## CH VST4 Ceiling Mount

Install a plasma with the top of the display close to the ceiling line. This extension bracket adjusts from 14<sup>1</sup>/<sub>2</sub>" to 30<sup>3</sup>/<sub>4</sub>" long. Complete 360° rotation and up to 15° of tilt are standard. Maximum capacity 165 pounds. Black powder coat finish. Specify the universal or display-specific bracket you need. Bracket can be secured with padlock to prevent theft.

## CFH ST3000 Ceiling-to-Floor Mount

The SMS CFH ST3000 is the ultimate plasma display mount. It features a 118" extruded aluminum column with sturdy steel swivel mounts for attachment to ceiling and floor. A built-in ±2" height adjuster makes the CFH ST3000 installer friendly, and it can also be shortened in the field if desired.

The CFH ST3000 will accommodate up to three plasma displays mounted horizontally or two vertically. Displays can be raised or lowered over a 98" range in 2" increments. Two lock devices secure each display in its bracket. Optional shelves for VCR, DVD player, amplifier and related equipment in black or grey. Displays can be tilted up to 15° if mounted horizontally. ±20° swivel left-to-right. Maximum capacity 660 lbs. All of the weight of mount is supported by the floor. Column has built-in cable management system. Black powder coat finish. Specify the universal or display-specific bracket you need. Bracket can be secured with padlock to prevent theft.

Please visit us 24-hours a day on the Web at [www.draperinc.com](http://www.draperinc.com) to download specifications, CAD details, submittals and installation instructions. To receive an architectural specification CD-ROM, product cut sheets or additional literature, contact Draper by calling, faxing or e-mailing.



# Mobile Mounts

## FH MT600

The SMS FH MT600 offers the same features as the larger SMS mobile mounts below. This shorter column mount is 30" from the ground to the top of the column. It has 15° of tilt. The FH MT600 is great for displaying plasma or LCD displays close to the ground for studio/broadcast visual feedback (teleprompt or confidence monitors). Can mount displays through 50" diagonal.



## FH MT1450

The SMS FH MT1450 offers portability of your plasma display with complete safety. A wide track tubular steel base and 4" swivel casters enable fast, easy movement. The plasma display mounts onto a sturdy 63 3/8" high extruded aluminum column. Display can be raised and lowered over a 30" range in 2" increments. Standard height setting places center of display image approximately 56 3/4" off the floor. Display mounts horizontally or vertically. Base shelf and adjustable column shelves optional.



## FH MT2000

The FH MT2000 is identical to the 1450, except taller. The extruded aluminum column is 85 1/8" high. Display can be raised and lowered over a 58" range in 2" increments. Standard height setting places center of display image approximately 78 3/4" off the floor. Display can be mounted horizontally or vertically. Optional base shelf and adjustable column shelves provide for VCR, DVD player, etc.

For all three mobile mounts, FH MT600, FH MT1450 and FH MT2000, the maximum weight capacity is 220 lbs. Columns have built-in cable management system and a black powder coat finish. The universal or display-specific bracket you need is included. Bracket can be secured with padlock to prevent theft.

# Floor Stands

## FH T1450 Floor Stand

Well-balanced shape and weighted base ensure a stable and safe platform for even the largest plasma display. Base is 30 1/8" wide x 19 1/2" deep. Display can be mounted horizontally or vertically. The 59 1/2" stand has a 30" range of vertical adjustment. At the highest setting, the display's center-line is 52 3/4" above floor.



## FH T2000 Floor Stand

All the features of the FH T1450 above, yet taller. The 81 1/8" stand has a 58" range of vertical adjustment. At the highest setting, the display's center-line is 74 3/8" above floor.

Features for both the FH T1450 and FH T2000 include maximum weight capacity of 220 lbs., built-in cable management, black powder coat finish and the universal or display-specific bracket you need. Optional adjustable column shelves available.

## FH MFD

Mobile videoconferencing unit that allows two displays to be mounted side by side. It is an ideal tool for videoconferencing, or whenever you need two displays to support a presentation or display. Universal-style brackets already included with this product. Compatible with displays with VESA hole patterns of 200 x 200/200 x 400/400 x 400/400 x 600/400 x 800 or have mounting hole pattern of maximum 19 1/2" H x 31 1/2" W. Shelves are optional. Displays have lateral adjustment. Supports 220 lbs. total; 110 lbs. maximum per display. Silver finish.



# Table Stand

## THF

The SMS THF allows for easy placement of a plasma display on a table or credenza for trade shows, office or boardrooms. The SMS THF's well-balanced shape and weighted base ensure a stable and safe platform for even the largest plasma display. It stands 24 3/8" high, and the base is 25" wide x 14 3/4" deep.



Maximum weight capacity is 220 lbs. Column features built-in cable management system and black powder coat finish. Includes the universal or display-specific bracket you need.

## Optional Accessories

- **SMS Bracket Adapter**—Used to attach multiple displays on to plasma mounts with columns. This option attaches to the column and interfaces with the universal or display-specific bracket. Each mount already includes this. Only required when mounting more than one display.
- **Adjustable Shelves**—Optional grey or black shelves. A positive locking clip keeps shelves securely attached. Shelf height may be adjusted in 2" increments. Shelves can hold up to 22 lbs. each.
- **Camera Shelf**—Mounts videoconferencing camera to any mount for LCD/TFT flat panel displays.
- **Security Lock Kit**—While no system can guarantee complete security, the SECURITY LOCK KIT is an excellent deterrent, and designed to keep your monitor safe and secure when mounted to a SMS MOUNT. Use for DVD, VCR, amplifier and other related equipment. Kit includes 6' cable, key lock, 2 loopers, flexible adhesive pad and microslot lock.
- **SMS L Adapter**—SMS L ADAPTER allows you to convert any SMS MOUNT FOR PLASMA DISPLAYS into a mount for LCD/TFT flat panel displays. Mounting plate fits any LCD/TFT flat panel display with a 75 mm or 100 mm VESA mounting hole pattern. Maximum weight capacity 33 pounds. Black.
- **Base Shelf**—Optional widetrack grey or black base shelf for SMS MOBILE MOUNTS. 37 3/4" wide x 16 7/8" deep.



# SMS FPD Ceiling Mounts

## SMS CL VST Ceiling Mount

Attractive, telescoping column of natural anodized aluminum for suspending LCD flat panel displays from the ceiling. Quickly and safely install DRAPER'S SMS CL VST CEILING MOUNT to the ceiling or above it. With the exclusive SMS SLIDE MOUNTING SYSTEM, just attach an L SLIDE, provided, to the back of the monitor and slide it onto the column's keystone-shaped plate.

Available in five lengths—each infinitely adjustable within the specified range (see chart at right). 30° of tilt at the ceiling plate. 0-35° of tilt at the display bracket. 360° of rotation. Column has built-in cable management system. L SLIDE (included) fits both VESA™ 75 mm and 100 mm mounting hole patterns on LCD and TFT panels. Maximum weight capacity 33 lbs.

Model	Adjustable range— from display's center-line to ceiling bracket
CL VST 300-350	11¼"—13¾"
CL VST 500-750	19⅝"—29½"
CL VST 650-950	25⅝"—35⅜"
CL VST 850-1100	33½"—43¼"
CL VST 1050-1300	41⅜"—51¼"

## SMS CL ST800

Ceiling mount that allows display to be positioned anywhere along the column—length is 31½". Built in cable management in the side of the column exits through the mounting plate. Multiple LCD flat panels can be mounted to column by using the L ST Kit. Displays can be mounted directly opposite each other.

Mount holds up to 4 LCD displays. Can be inverted and permanently mounted to a table to provide a tall table mount.

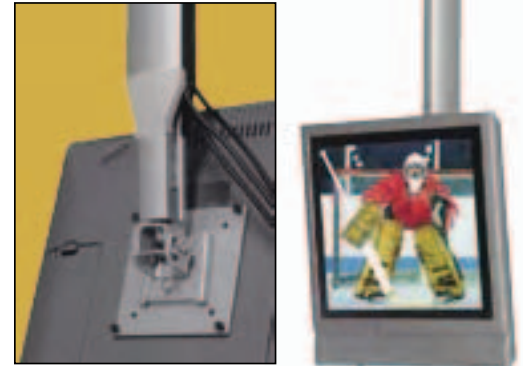
The CL ST800 includes one L ST Kit and VESA™ 75 mm or 100 mm plate. Allows ±90° of rotation and ±25° of tilt.



Left: CL ST800 Ceiling Mount with single display.

Left: CL ST800 Ceiling Mount holds up to 4 displays using the L ST Kit.

Cable management (detail above, left) is a simple task with the CL VST Ceiling Mount (above, right).



# SMS FPD Table Mounts

## SMS TL ST400

Designed to be permanently mounted to a table or solid surface or can be used with the SMS CLAMP. Display can be positioned anywhere along the column—length is 15¾". Built in cable management exits through mounting plate.

Can be inverted and mounted to ceiling for a shorter ceiling mount. Holds displays weighing up to 33 lbs. Also can be used with 3D ARM L accessory.



TL ST400

## WL 3D

Articulating wall mount collapses to depth of 3⅜" (minus flat panel display and brackets). The articulating arm extends the display up to 15" from wall and allows swivel left and right as far as the wall will allow. Maximum weight capacity 22 lbs. Silver finish.



WL 3D

TL ST400 with 3D Arm L

# SMS Flat Panel Display Wall Mounts

## WMT Universal Wall Mount

Universal wall bracket is designed to mount LCD flat panel displays from 20" to 32" diagonal size but will work with smaller displays. Fits VESA 75/75, 100/100, 200/100 and 200/200 mounting configurations and non-VESA configurations up to 13" w x 9 5/8" h. Mount is already assembled. Other features include silver finish, 10° tilt, exclusive SLIDE MOUNTING SYSTEM and maximum weight capacity of 65 lbs.



## WL ST800/1200

Wall mount that allows display to be positioned anywhere along the column—WL ST800 length is 32 1/2". WL ST1200 length is 47 1/4". Built in cable management in the side of the column exits through the mounting plate. Multiple LCD flat panels can be mounted to column by using the L ST KIT. Optional shelves can be attached to hold DVD player, etc.



WL ST1200 with wood shelves

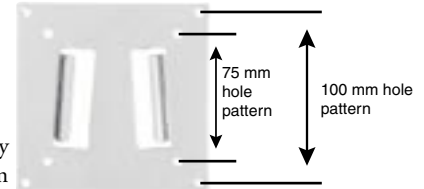
## WLF Wall Mount

The bracket cannot be tilted or angled, but the display is only 5/8" from the wall. Other features: silver finish, 15° tilt, 20° rotation left to right, exclusive SLIDE MOUNTING SYSTEM and maximum weight capacity of 33 lbs. L SLIDE (included) fits both 75 mm and 100 mm VESA mounting hole patterns on LCD and TFT panels.



## SMS L Slide

SMS L SLIDE is included with all SMS ceiling and wall mounts. This universal bracket attaches to all display panels with a VESA™ 75 mm or 100 mm mounting hole pattern. The bracket measures 4 3/8" square. With the exclusive SLIDE MOUNTING SYSTEM, just attach an L SLIDE to the back of the monitor and slide it onto the mount's keystone-shaped plate.



## SMS WL ST Wall Mount

The monitor can be angled or tilted. Back of your display is only 2 1/8" from the wall. Other features: silver finish, 15° tilt, 20° rotation left to right, exclusive SLIDE MOUNTING SYSTEM and maximum weight capacity 33 lbs. L SLIDE (included) fits both 75 mm and 100 mm VESA mounting hole patterns on LCD and TFT panels.



## WL 3D

Articulating wall mount collapses to depth of 3 3/8" (minus flat panel display and brackets). The articulating arm extends the display up to 15" from wall and allows swivel left and right as far as the wall will allow. Maximum weight capacity 33 lbs. Silver finish.



# SMS Flat Panel Display Accessories

## 3D Arm L

Allows mounting of an extension arm to any of the columns. For use with SMS WL ST, WL ST800, WL ST1200 or TL ST400.



## Adjustable Shelves

Optional acrylic or black shelves can be attached to column of SMS WL ST800, WL ST1200 or CL ST 800 mounts. Each shelf can hold up to 22 lbs. Acrylic shelf has green tint when viewed from edge.



## SMS L ST Kit

Used for mounting multiple LCD displays to the SMS WL ST, WL ST 800, WL ST 1200 or TL ST400. Includes L SLIDE for 75 mm x 75 mm or 100 mm x 100 mm mounting hole pattern. Allows ±90° of rotation and ±25° of tilt. Attaches to side of column.



## Clamp

Used to attach to the SMS TL ST400 to allow non-permanent mounting to side of table or solid surface. Can also be used to invert it for a suspended mount from SMS clamp pipe or truss up to 1 1/2" diameter or 1 1/8" thick table or solid surface.



## Security Lock Kit

The SECURITY LOCK KIT is designed to keep your monitor safe and secure when mounted to a SMS MOUNT. Use for DVD, VCR, amplifier and other related equipment. Kit includes 6' cable, key lock, 2 loopers, flexible adhesive pad and microslot lock.

Visit us 24-hours a day at [www.draperinc.com](http://www.draperinc.com) to download specifications, CAD details, submittals and installation instructions. To receive an architectural specification CD-ROM, product cut sheets or additional literature, contact Draper by calling, faxing or e-mailing.

# Onyx

*Quick and easy assembly plus adjustable surface tension—without snaps!*

You can have a beautifully framed image hanging on the wall in just 10 to 15 minutes—assembly is that easy!

An attractive frame, a new fabric tensioning system and ease of assembly make ONYX the leader in permanently tensioned screens. The 4" wide beveled, extruded aluminum frame interconnects quickly on site. Each side piece slip fits tightly to injection molded plastic corners, forming perfectly mitered edges.

A radical new approach to fabric attachment will amaze even the toughest of critics. There are no snaps! Uniform tension is applied to the entire surface area, so the surface is perfectly flat. Unique fabric retention system enables you to adjust the surface tension (up to 1½") in just seconds, without tools. Permanent wall mounting brackets included.

U.S. Patent No. 6,785,047. Other patents pending.

## System Options

- **Viewing Surfaces**—M1300, M2500, HiDEF GREY, AT1200 and AT GREY for front projection, or CINEFLEX rear projection vinyl.

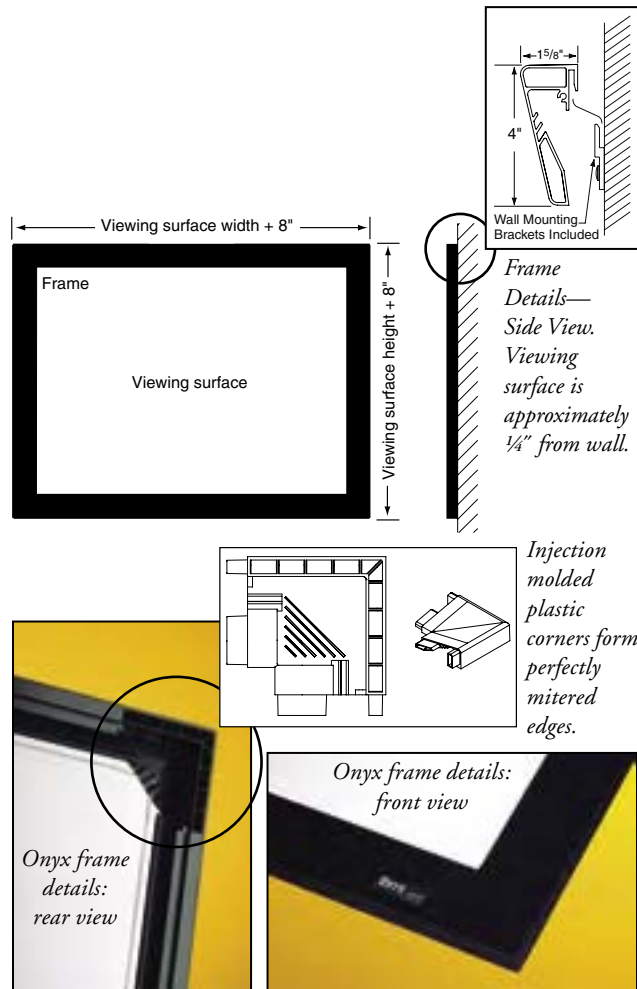


Onyx installation by David Szathmary in Gallerie Jean Moulin, Hyde Park of Austin, Texas. Photography: Barry Champagne, Houston Texas.

- **Custom Sizes**—Any size up to the largest standard size in chart at right, depending on viewing surface. Overall size, including frame, equals image area plus 8".
- **Frame Finishes**—Black aluminum is standard. Cover the frame with optional velvety black VEL-TEX® to eliminate reflections. Pictured below.

## Standard Onyx Sizes

Nominal Diagonal	Image Area H x W	Overall Size H x W	Net Wt. (lbs.)	M1300 & M2500	HiDef Grey	AT1200	AT Grey	Cineflex
<b>Audio Visual Format</b>								
	50" x 50"	58" x 58"	27					
	60" x 60"	68" x 68"	32					
	70" x 70"	78" x 78"	37					
	84" x 84"	92" x 92"	44					
	96" x 96"	104" x 104"	50					
	9' x 9'	116" x 116"	56					
	10' x 10'	128" x 128"	63					
<b>NTSC Format (4:3)</b>								
6'	43" x 57"	51" x 65"	27					
6½'	47" x 63"	55" x 71"	30					
7'	50" x 67"	58" x 75"	31					
7½'	54" x 72"	62" x 80"	33					
100"	60" x 80"	68" x 88"	37					
10'	72" x 96"	80" x 104"	43					
150"	90" x 120"	98" x 128"	54					
15'	108" x 144"	116" x 152"	66					
<b>HDTV Format (16:9)</b>								
65"	31¾" x 56½"	39¾" x 64½"	25					
73"	36" x 64"	44" x 72"	28					
82"	40½" x 72"	48½" x 80"	31					
92"	45" x 80"	53" x 88"	34					
106"	52" x 92"	60" x 100"	37					
119"	58" x 104"	66" x 112"	41					
133"	65" x 116"	73" x 124"	46					
161"	80" x 140"	88" x 148"	57					
<b>WideScreen Format (1.85:1)</b>								
99"	47" x 87"	55" x 95"	35					
108"	49¾" x 92"	57¾" x 100"	37					
120"	56¼" x 104"	64¼" x 112"	41					
132"	62¾" x 116"	70¾" x 124"	46					
162"	75¾" x 140"	83¾" x 148"	55					



# Clarion

*Perfect picture quality from a fixed projection screen.*

Improve your image—with a CLARION projection screen. How? The viewing surface is perfectly flat. And a perfectly flat viewing surface means perfect picture quality. We've redesigned the CLARION to simplify installation. The CLARION's self-concealing aluminum frame now forms an attractive 2" wide beveled border for a clean, theatre-like appearance. The frame interconnects quickly on site. Permanent wall mounting brackets included.

### System Options

- **Viewing Surfaces**—M1300, M2500, HiDEF GREY, AT1200 or AT GREY for front projection, or CINEFLEX rear projection vinyl.
- **Custom Sizes**—Any size up to the maximum standard size in the CLARION chart below. Overall size, including frame, equals image area plus 4".
- **Frame Finishes**—Black aluminum is standard. Cover the frame with optional velvety black, VEL-TEX® to eliminate reflections.

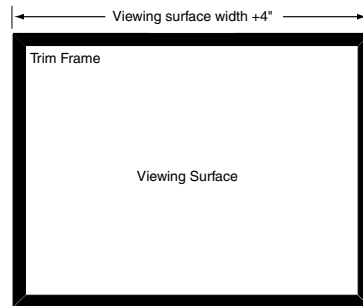
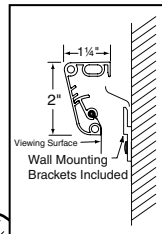


Earlham College, Richmond, Indiana

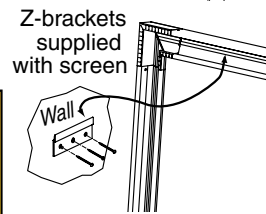
### Standard Clarion Sizes

Nominal Diagonal	Image Area H x W	Overall Size H x W	Net Wt. (lbs.)	M1300 & M2500	HiDef Grey	AT1200	AT Grey	Cineflex
<b>Audio Visual Format</b>								
	50" x 50"	54" x 54"	33					
	60" x 60"	64" x 64"	38					
	70" x 70"	74" x 74"	47					
	84" x 84"	88" x 88"	55					
	96" x 96"	100" x 100"	58					
	9' x 9'	112" x 112"	71					
	10' x 10'	124" x 124"	79					
<b>NTSC Video Format (4:3)</b>								
6'	43" x 57"	47" x 61"	32					
6½'	47" x 63"	51" x 67"	37					
7'	50" x 67"	54" x 71"	38					
7½'	54" x 72"	58" x 76"	42					
100"	60" x 80"	64" x 84"	45					
10'	72" x 96"	76" x 100"	55					
150"	90" x 120"	94" x 124"	72					
15'	108" x 144"	112" x 148"	80					
<b>HDTV Format (16:9)</b>								
65"	31¾" x 56½"	35¾" x 60½"	32					
73"	36" x 64"	40" x 68"	37					
82"	40½" x 72"	44½" x 76"	40					
92"	45" x 80"	49" x 84"	41					
106"	52" x 92"	56" x 96"	46					
119"	58" x 104"	62" x 108"	54					
133"	65" x 116"	69" x 120"	59					
161"	80" x 140"	84" x 144"	73					
<b>WideScreen Format (1.85:1)</b>								
99"	47" x 87"	51" x 91"	46					
108"	49¾" x 92"	53¾" x 96"	48					
120"	56¼" x 104"	60¼" x 108"	57					
132"	62¾" x 116"	66¾" x 120"	61					
162"	75¾" x 140"	79¾" x 144"	73					

Complete Onyx and Clarion specifications: [www.draperinc.com](http://www.draperinc.com)



**Frame Details—Side View.** Viewing surface is approximately ¼" from wall.



Clarion frame details: rear view



Clarion frame details: front view

# Cineperm

## Snap-on screen with aluminum frame.

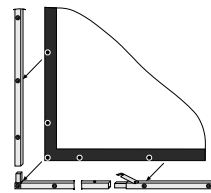
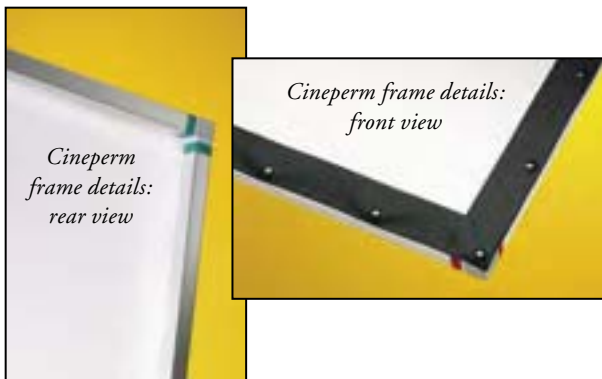
The CINEPERM offers a contemporary, theatre-like appearance wherever a permanently mounted front or rear screen is required. Flexible viewing surface is stretched perfectly flat and snaps onto a 1" tubular aluminum frame. The viewing surface conceals the frame completely with 2" black borders on all sides. Suitable for mounting to a wall, suspending from a ceiling, or "flying" for theatrical uses.

### System Options

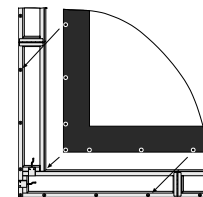
- **Viewing Surfaces**—M1300, M2500, HiDEF GREY, AT1200 or AT GREY for front projection, or CINEFLEX rear projection vinyl.
- **Standard Sizes**—Listed in the chart below.
- **Custom Sizes**—Available in virtually any custom size up to 15' x 20'. Overall size, including frame, equals image area plus 4".
- **Truss Sizes**—Sizes larger than 10½' x 14' are manufactured with truss-style construction, using a 6" wide frame and borders.



Draper Cineperm screens installed at NTC Flight Training, Moose Jaw, SK. Photo courtesy of Inland AV, Canada.



Cineperm Standard Construction



Cineperm Truss-Style Construction (very large sizes only)

Image Area H x W	Overall Size H x W	Net Wt. (lbs.)	Nominal Diagonal	Image Area H x W	Overall Size	Net Wt. (lbs.)	Nominal Diagonal	Image Area H x W	Overall Size	Net Wt. (lbs.)
<b>AV Format</b>			<b>NTSC Format (4:3)</b>			<b>HDTV Format (16:9)</b>				
46" x 46"	50" x 50"	34	6'	43" x 57"	47" x 61"	22	65"	31¾" x 56½"	35¾" x 60½"	21
56" x 56"	60" x 60"	36	6½'	47" x 63"	51" x 67"	23	73"	36" x 64"	40" x 68"	23
66" x 66"	70" x 70"	38	7½'	54" x 72"	58" x 76"	24	82"	40½" x 72"	44½" x 76"	26
80" x 80"	84" x 84"	40	100"	60" x 80"	64" x 84"	25	92"	45" x 80"	49" x 84"	27
70" x 94"	74" x 98"	41	10'	70" x 94"	74" x 98"	28	106"	52" x 92"	56" x 96"	28
92" x 92"	96" x 96"	42	11'	79" x 105"	83" x 109"	32	119"	58" x 104"	62" x 108"	31
90" x 120"	94" x 124"	44	150"	90" x 120"	94" x 124"	35	133"	65" x 116"	69" x 120"	35
116" x 116"	10' x 10'	48	15'	104" x 140"	108" x 144"	46	161"	80" x 140"	84" x 144"	41
104" x 140"	9' x 12'	50	200"	122" x 164"	126" x 168"	49	<b>WideScreen Format (1.85:1)</b>			
140" x 140"	12' x 12'	56	250"*	144" x 194"	156" x 206"	98	99"	47" x 87"	51" x 91"	27
			25'*	180" x 242"	192" x 254"	109	108"	49¾" x 92"	53¾" x 96"	28
							120"	56¼" x 104"	60¼" x 108"	31
							132"	62¾" x 116"	66¾" x 120"	35
							162"	75¾" x 140"	79¾" x 144"	41

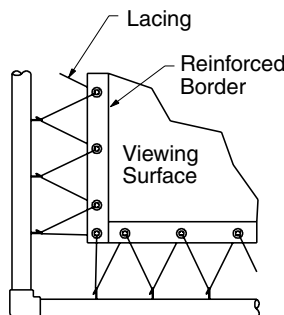
\*This size requires truss-style construction.

# Lace & Grommet

DRAPER LACE & GROMMET screens are furnished with reinforced 2" borders on all four sides and grommets on 6" centers. Every LACE & GROMMET screen is custom built to your order—sizes up to 30' x 90'. Ideal for theatres, auditoriums and stage events. Lacing cord sold separately.

### System Options

- **Viewing Surfaces**—Front projection choices: M1300, M2500 and HiDEF GREY. For rear projection, choose CINEFLEX vinyl.



Example of a Lace & Grommet surface attached to the inside of an aluminum frame (frame by others).

Complete Cineperm, Lace & Grommet, ShadowBox Clarion, WrapAround Clarion and Eclipse Masking System specifications: [www.draperinc.com](http://www.draperinc.com)

# ShadowBox Clarion

SHADOWBOX CLARION screens are constructed with a viewing surface that snaps onto the back side of a 1½" extruded aluminum frame with a black powder coat finish.

The assembled unit features a perfectly flat viewing surface with a clean, finished appearance.



### System Options

- **Viewing Surfaces**—M1300, M2500, HiDEF GREY, AT1200 or AT GREY for front projection, or CINEFLEX rear projection vinyl.
- **Standard Sizes**—Same image area sizes as CLARION (page 38). Overall size, including frame, equals image area plus 3" in each dimension.
- **Custom Sizes**—Up to the maximum standard CLARION size (page 38).
- **Frame Finishes**—Black aluminum is standard, and may be covered with velvety black VEL-TEX®, to eliminate reflections on the frame.

# Eclipse

## Switch instantly between two formats

The ECLIPSE is a motorized masking system that mounts to the wall, framing a DRAPER CLARION or CINEPERM. A special channel system keeps the screen as close as possible to the masking borders, giving it a seamless appearance. Images are fully bordered in flat black, so nothing interferes with your projected image—in any format. The ECLIPSE eliminates the need to buy two projection screens.

### System Options

- **Series V**—Image Area masked from top and bottom and the width remains constant. Standard format changes from 4:3 NTSC to 16:9 HDTV, or from 4:3 NTSC to 1.85:1 WideScreen.
- **Series H**—Image Area masked on the sides and the height remains constant. Standard format changes are from either 16:9 HDTV or 1.85:1 WideScreen to 4:3 NTSC.
- **Control Options**—Refer to page 25.

*Eclipse/V from 4:3 NTSC to 16:9 HDTV, or  
Eclipse/V from 4:3 NTSC to 1.85:1 WideScreen*

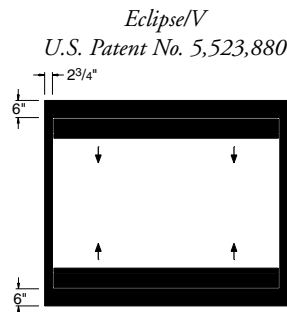
NTSC Open Image Area (4:3) Nom. Diag.	HDTV Masked Image Area (16:9) Nom. Diag.	WideScreen Masked Image Area (1.85:1) Nom. Diag.
6'	65½"	64¾"
6½'	72¼"	71½"
7'	77"	76"
90"	82¾"	81¾"
100"	92"	91"
10'	110¼"	109"
150"	137¾"	136¼"

#### Eclipse/V to use with Clarion

6'	65½"	64¾"
6½'	72¼"	71½"
7'	77"	76"
90"	82¾"	81¾"
100"	92"	91"
10'	110¼"	109"
150"	137¾"	136¼"

#### Eclipse/V to use with Cineperm

6'	65½"	64¾"
6½'	72¼"	71½"
7½'	82¾"	81¾"
100"	92"	91"
10'	108"	106¾"
11'	120½"	119¼"
150"	137¾"	136¼"



# WrapAround Clarion

With a WRAPAROUND CLARION, the viewing surface wraps completely around the perimeter frame and attaches to the back side, so the screen is solid white—and perfectly flat—with no visible frame or border. Ideal for any application where the screen must be perfectly unobtrusive.

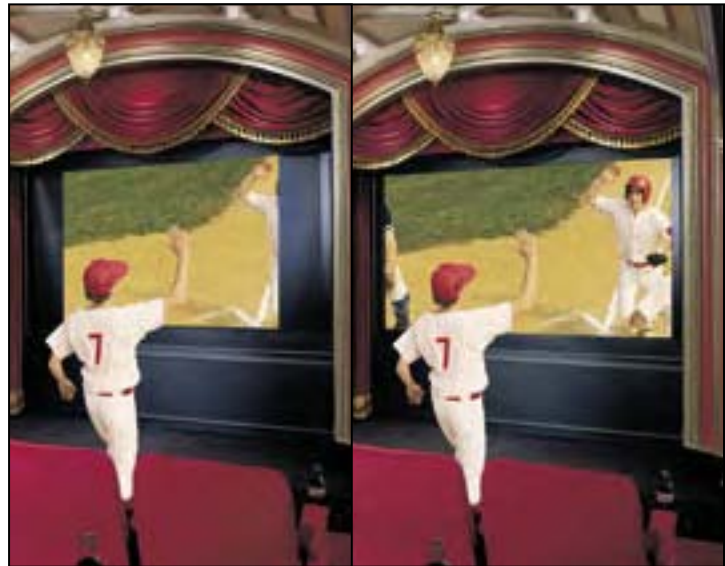


### System Options

- **Viewing Surfaces**—M1300, M2500 or HiDEF GREY.
- **Sizes**—Available up to the maximum standard CLARION size (page 38). Image area will match the overall size.
- **Frame and borders**—No frame or borders are visible since the surface wraps completely around the frame.

*Eclipse/H down*

*Eclipse/H up*

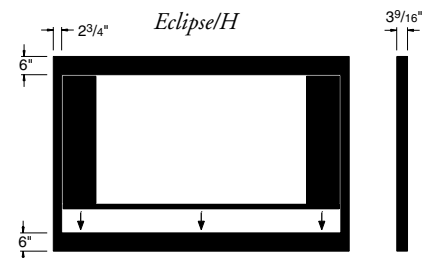


*Eclipse/H from 16:9 HDTV to 4:3 NTSC, or  
Eclipse/H from 1.85:1 WideScreen to 4:3 NTSC*

HDTV Open Image Area (16:9) Nom. Diag.	WideScreen Open Image Area (1.85:1) Nom. Diag.	NTSC Masked Image Area (4:3) Nom. Diag.
92"	95"	75"
106"	109½"	86½"
123"	126"	100"
133"	136½"	108"
147"	151½"	120"

#### Eclipse/H to use with Clarion or Cineperm

92"	95"	75"
106"	109½"	86½"
123"	126"	100"
133"	136½"	108"
147"	151½"	120"



# Silhouette

## With a high-tech appearance.

We changed the appearance of projection screens with a revolutionary case design. The SILHOUETTE's case conceals everything:

- Mounting fixtures • Fasteners
- Viewing surface retracts completely inside case

The innovative case installs cleanly, and the front fascia is easily removable for access to the inside components. Its slender fascia and endcaps are made of gently radiused aluminum and present a strikingly modern appearance. There is no need to conceal the SILHOUETTE—it will complement the other high-tech equipment in your room.

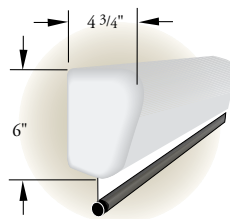
U.S. Patent No. 5,296,964 and 6,111,694.

**Silhouette/Series M**—is spring-roller operated. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

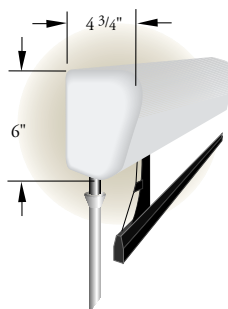
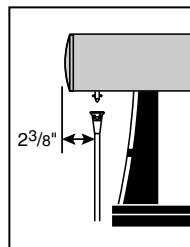
**Silhouette/Series C**—is operated by a slim, polished aluminum crank, which may be detached for storage. Features DRAPER's TAB TENSIONING SYSTEM for a perfectly flat projection surface. Choose M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface. See page 11 for more on the benefits of TAB TENSIONING.

### System Options

- **Case Finishes**—Choose a dove grey (standard), black or white lightly textured finish. Dowels on both SERIES retract completely inside case.
- **Extra Drop**—Up to 8' overall height, either white or black (White is standard for SERIES M in AV format. Black is standard for SERIES M in all other formats and for all SERIES C screens).
- **Black Masking Borders**—Borders are optional for SERIES M in AV format. Borders are standard for SERIES M in all other formats and for all SERIES C.



Silhouette/Series M



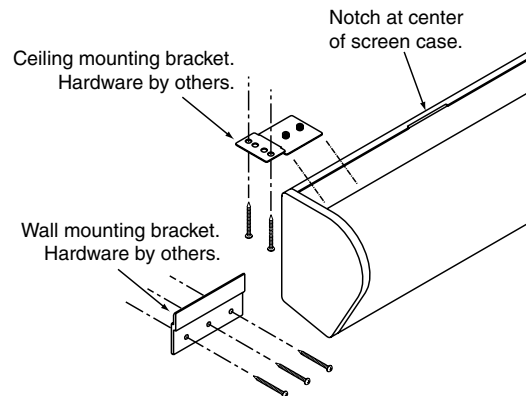
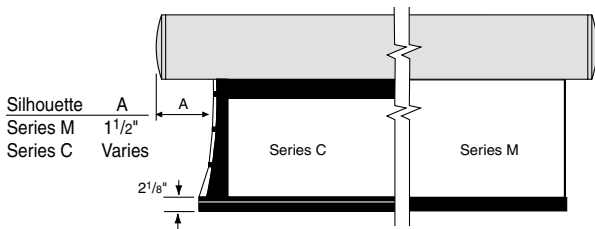
Silhouette/Series C



Silhouette/Series M



Silhouette/Series C



Silhouette	Series M		Series C <sup>1</sup>		
	Case Length	Net Wt. (lbs.)	Case Length <sup>2</sup>	Dowel Length <sup>2</sup>	Net Wt. (lbs.)
Series M	1 1/2"				
Series C	Varies				

Series M	Series C <sup>1</sup>			Series M	Series C <sup>1</sup>		
	Size HxW	Image Area HxW	Case Length		Net Wt. (lbs.)	Image Area HxW	Case Length <sup>2</sup>

Audio Visual Format					
50" x 50"	52 1/2"	18	72 3/4"	60"	30
60" x 60"	62 1/2"	21	83 3/4"	71"	32
70" x 70"	72 1/2"	25	93 3/4"	82"	37
84" x 84"	86 1/2"	28	109"	96"	43
72" x 96"	99"	29	119 3/4"	108"	54
96" x 96"	99"	33	122 1/2"	109 1/2"	56

NTSC Format (4:3)								
6'	42 1/2" x 56 1/2"	62 1/2"	20	42 1/2" x 56 1/2"	79 1/4"	66 1/2"	36	
7'	50" x 66 1/2"	72 1/2"	24	50" x 66 1/2"	89 1/4"	76 1/2"	40	
100"	60" x 80"	86 1/2"	25	60" x 80"	103 3/4"	91"	44	
10'	69" x 92"	99"	29	72" x 96"	119 3/4"	108"	51	

HDTV Format (16:9)								
65" <sup>1</sup>	31 3/4" x 56 1/2"	62 1/2"	19	45" x 80"	102 3/4"	90"	47	
73" <sup>1</sup>	36" x 64"	72 1/2"	23	52" x 92"	114 3/4"	102"	51	
82" <sup>1</sup>	40 1/2" x 72"	77"	24					
92"	45" x 80"	86 1/2"	25					
106"	52" x 92"	99"	29					

WideScreen Format (1.85:1)								
99"	47" x 87"	93"	25	47" x 87"	109 3/4"	97"	44	
108"	50" x 92"	99"	29	50" x 92"	114 3/4"	102"	51	

<sup>1</sup> All SERIES C screens and these SERIES M HDTV sizes include 12" black drop as standard.

<sup>2</sup> Extra drop may increase case and/or dowel length. Consult factory if this dimension is critical.

Complete Silhouette specifications: [www.draperinc.com](http://www.draperinc.com)

# Premier/Series C

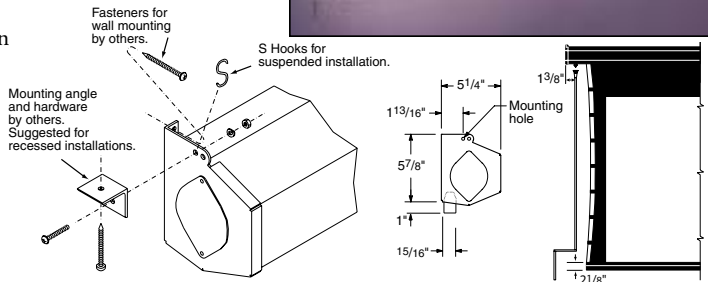
## Crank-Operated Screen with Tensioning.

PREMIER/SERIES C—the manually operated screen with a perfectly flat viewing surface. Its TAB TENSIONING SYSTEM delivers perfect picture quality and meets the exacting requirements of large-screen video and data projection. Operated by a slim, polished aluminum crank, which may be detached for storage. Steel case and special tensioning dowel are finished in flat black.

Your choice of M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface. See page 11 for more benefits of TAB TENSIONING.

### System Options

- **Extra Drop**—Up to 12' overall height, either white or black (black is standard). Extra drop will increase the overall length of the case.
- **Black Masking Borders**—Standard for all formats.
- **Projected Mounting Brackets**—provides a 6" clearance.



Size HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>Audio Visual Format</b>			
50" x 50"	68"	60"	30
60" x 60"	78 3/4"	71"	35
70" x 70"	89"	82"	40
84" x 84"	104 1/4"	96"	50
72" x 96"	115"	108"	55
96" x 96"	117 3/4"	109 1/2"	60
7' x 9'	128 1/4"	120"	60
9' x 9'	129 3/4"	122"	65
8' x 10'	141 3/4"	133 1/2"	70
10' x 10'	143 1/2"	135 3/4"	75
9' x 12'	165 3/4"	158"	80
12' x 12'	171 1/2"	161 1/2"	85

Size Nom. Diag.	Image Area HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>NTSC Format (4:3)</b>				
6'	42 1/2" x 56 1/2"	74"	66 1/2"	35
7'	50" x 66 1/2"	84 1/4"	76 1/2"	40
100"	60" x 80"	97 3/4"	91"	50
10'	72" x 96"	115"	108"	55
11'	78" x 104"	124 1/4"	116"	60
150"	87" x 116"	136 1/4"	129 1/2"	70
15'	108" x 144"	165 3/4"	158"	80
200"	118" x 158"	180 3/4"	173 7/8"	90
<b>HDTV Format (16:9)</b>				
92"	45" x 80"	97 1/2"	90"	50
106"	52" x 92"	110"	102"	60
119"	58" x 104"	122"	115"	65
133"	65" x 116"	135"	127"	70
161"	79" x 140"	160 1/4"	152"	80
184"	90" x 160"	180 3/4"	173 3/8"	88

Size Nom. Diag.	Image Area HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
<b>WideScreen Format (1.85:1)</b>				
99"	47" x 87"	105"	97"	55
108"	50" x 92"	110"	102"	60
120"	56" x 104"	122"	115"	65
132"	63" x 116"	135"	127"	70
162"	76" x 140"	160 1/4"	152"	80
182"	86 1/2" x 160"	180 3/4"	173 7/8"	88

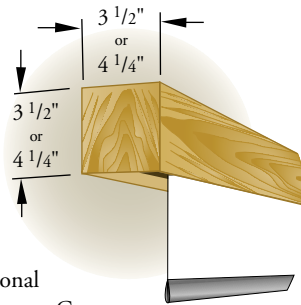
\*Extra drop increases length of case and dowel. Case may be recess-mounted. Dowel clearance for recessed mounting equals dowel length plus 1".

Complete Premier and Artisan specifications: [www.draperinc.com](http://www.draperinc.com)

# Artisan/Series M

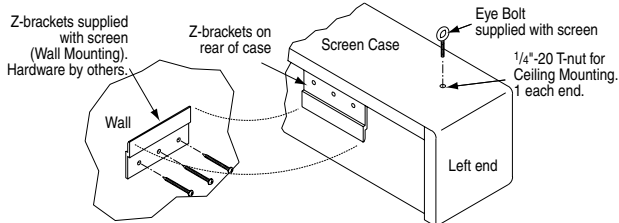
## Hand-crafted to complement your room furnishings.

ARTISAN SERIES projection screens complement the fine furniture in your conference room. They are enclosed in solid hardwood cases with a variety of finishes to match virtually any decor—or in sleek, contemporary plastic laminate. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.



### System Options

- **Case Finishes**—Choose from seven hardwoods and five laminates. Refer to page 15.
- **Case Styles**—Hardwood cases are available in four styles. Refer to page 15.
- **Extra Drop**—Up to 8' overall height, either white or black (white is standard on AV format; black for all other formats).
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other formats.



Size HxW	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			
50" x 50"	53"	17	6'	42 1/2" x 56 1/2"	63"	19
60" x 60"	63"	19	7'	50" x 66 1/2"	73"	21
70" x 70"	73"	21	100"	60" x 80"	88"	33
84" x 84"	88"	39	10'	69" x 92"	100"	38
72" x 96"	100"	42	<b>HDTV Format (16:9)</b>			
96" x 96"	100"	43	92" *	45" x 80"	88"	33
			106" *	52" x 92"	100"	38
			<b>WideScreen Format (1.85:1)</b>			
			99"	47" x 87"	94"	36
			108"	50" x 92"	100"	38

<sup>1</sup> These HDTV sizes include 12" black drop as standard.

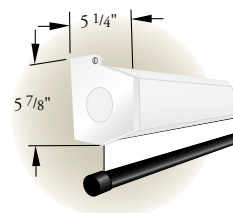
# Luma 2

## Heavy duty spring roller projection screen.

The LUMA 2 is an attractive and practical choice wherever a large spring-roller screen is required. Simple in design and rugged in construction, the LUMA 2 is housed in a white steel case with matching endcaps. Mounts to wall or optional extension brackets; suspends under ceiling or recess above ceiling with optional CEILING OPENING TRIM KIT (details below). Fiberglass matt white, glass beaded and HIGH CONTRAST GREY viewing surfaces available. Includes pull cord.

### System Options

- **Extra Drop**—Up to 12' overall height, either white or black (white is standard in AV format; black for all other formats).
- **Black Masking Borders**—Available on AV format screens: 1½" wide in sizes through 70" x 70"; 2" wide in larger sizes. All other format screens have black borders to frame image on all four sides.
- **Projected Mounting Brackets**—Sturdy, white angle brackets for wall-mounting screens to clear obstacles. See choices on page 45.
- **Luma 2/R with Floor Stand**—Matt white (standard) or glass beaded projection screen designed to lie in the FLOOR STAND and pull up from its scratch-resistant case (at right). Case can be covered with black carpet. Adjustable FLOOR STAND of heavy gauge steel and anodized aluminum. Telescoping upright holds top of viewing surface when extended (maximum of 12'). FLOOR STAND weighs 25 lbs.



Luma 2/R with Floor Stand

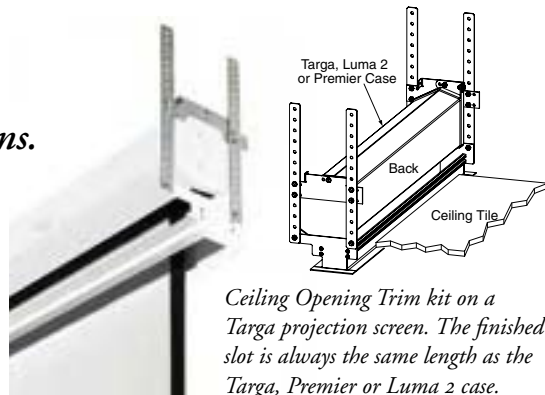
Size HxW	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			<b>HDTV Format (16:9)</b>						
50" x 50"	53½"	23	100"	60" x 80"	64" x 83½"	87½"	32	92" <sup>1</sup>	45" x 80"	57" x 83½"	87½"	32
60" x 60"	63½"	26	10'	69" x 92"	73" x 96"	98⅝"	32	106" <sup>1</sup>	52" x 92"	64" x 96"	98⅝"	32
70" x 70"	73½"	29	11'	78" x 104"	83" x 108"	111¼"	36	119"	58" x 104"	62" x 108"	111¼"	35
84" x 84"	87½"	32	150"	87" x 116"	92" x 120"	123¼"	41	133"	65" x 116"	69" x 120"	123¼"	39
72" x 96"	98⅝"	32	15'	105" x 140"	109" x 144"	147¼"	55	161"	79" x 140"	84" x 144"	147¼"	54
96" x 96"	98⅝"	34	<sup>1</sup> These HDTV sizes include 12" black drop as standard.			<b>WideScreen Format (1.85:1)</b>						
7' x 9'	111¼"	37	Case dimensions—5⅜" high x 5¼" wide.			99"			47" x 87"	51" x 90"	92⅝"	32
9' x 9'	111¼"	42	Hanging brackets extend ⅝" above screen case.			108"			50" x 92"	54" x 96"	98⅝"	32
8' x 10'	123¼"	41	<b>Complete Luma 2 and Luma 2/R specifications:</b>			120"			56" x 104"	60" x 108"	111¼"	35
10' x 10'	123¼"	47	<a href="http://www.draperinc.com">www.draperinc.com</a>			132"			63" x 116"	67" x 120"	123¼"	40
9' x 12'	147¼"	55				162"			76" x 140"	80" x 144"	147¼"	53
12' x 12'	147¼"	66										

## Ceiling Opening Trim Kit

### For ceiling-recessed Luma 2, Targa and Premier screens.

Designed for ceiling-recessed installations of LUMA 2, TARGA and PREMIER screen models. Trims out the opening and attaches to the screen's endcaps. Forms a finished slot in the ceiling allowing for passage of the viewing surface. Attaches to screen end caps. Painted white to match ceiling grid, resulting in a professional, attractive, ceiling-recessed installation. Slot includes finished flange to accept acoustical ceiling tile or grid and measures only 2⅛" in width. Aluminum operating pole is a recommended option for the LUMA 2.

With the DRAPER CEILING TRIM KIT, the slot is always exactly the right size and in precisely the right location. Our finished slot is always flush, square, attractive and the same length as the screen case.

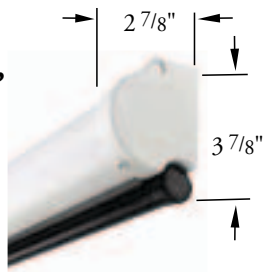


Ceiling Opening Trim kit on a Targa projection screen. The finished slot is always the same length as the Targa, Premier or Luma 2 case.

# Star

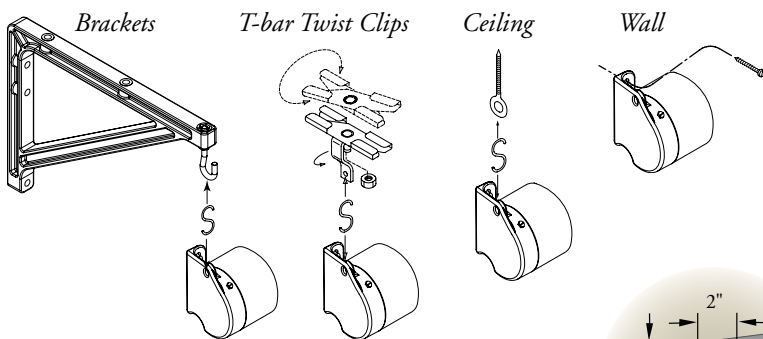
*Economy and durability in a sturdy, reliable classroom screen.*

Durable construction, attractive design—at an economical price. Sturdy, cylindrical, white steel case. White endcaps form universal hanging brackets for attachment to wall or ceiling. Tearproof, flame retardant fiberglass matt white offers a sharp image from any viewing angle.



## System Options

- **Extra Drop**—Up to 84" overall height, either white or black (white is standard).
- **Black Masking Borders**—Available 1½" wide in sizes through 70" x 70"; 2" wide in larger sizes.
- **Pull Cord**—For sizes 70" wide and larger, a pull cord is included.
- **Projected Mounting Brackets**—6", 10" and 14" fixed, and 18¼"–24" adjustable. See page 45.



Size HxW	Case Length	Net Wt. (lbs.)
<i>Audio Visual Format</i>		
50" x 50"	52¼"	7
60" x 60"	62¼"	8
70" x 70"	72¼"	12
84" x 84"	86¼"	15

*Complete Star and V Screen specifications: [www.draperinc.com](http://www.draperinc.com)*

# V Screen

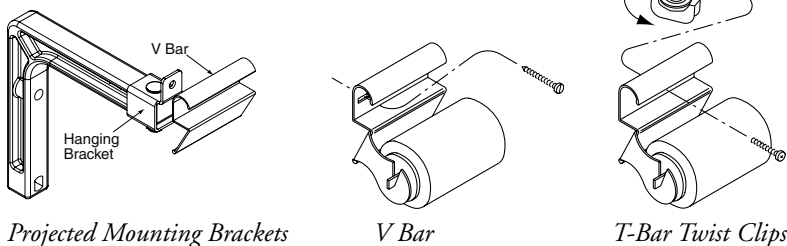
*The only screen with a 5-year warranty.*

The DRAPER V SCREEN offers extremely durable construction at very reasonable prices. Due to the extreme simplicity of its design, the V SCREEN has the longest life expectancy of any classroom screen. These exclusive features target the areas where many classroom projection screens wear out:

- **Tearproof fiberglass matt white viewing surface.**
- **High-tech fabric attachment prevents fabric from pulling off roller.**
- **Patented design eliminates friction between viewing surface and metal parts.**
- **V Bar aluminum support attaches easily to wall, ceiling or map rails.**
- **Warranted for five full years (see below).**

## Mounting Options

- **Pull Cord**—For sizes 70" wide and larger, a pull cord is included.
- **Projected Mounting Brackets**—6", 10" and 14" fixed, and 18¼"–24" adjustable. See page 45.
- **T-Bar Twist Clips**—Mount to "T" irons in drop ceiling.



Size H x W	Overall Length	Closed Dims Height	Closed Dims Depth	Net Wt. (lbs.)
<i>Audio Visual Format</i>				
40" x 40"	42½"	3¼"	2¼"	5
50" x 50"	52½"	3¼"	2¼"	6
60" x 60"	62½"	3¼"	2¼"	7
70" x 70"	72½"	3¼"	2¼"	11
84" x 84"	86½"	3¾"	2¾"	14
96" x 96"	98½"	4"	3"	18
108" x 108"	110½"	4¾"	3¾"	22

## Five-Year Warranty

All DRAPER V SCREENS are warranted against defects in materials and/or workmanship for five (5) years from date of shipment from company.

# Luma

## Pentagonal-shaped case for wall- or ceiling-mounting.

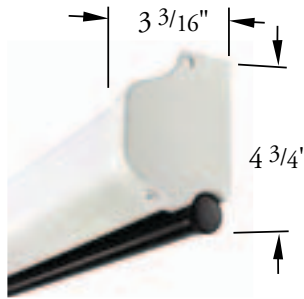
The LUMA projection screen is attractive and dependable in the classroom or conference room. Its case and endcaps have a scratch-resistant, white polyester finish. The case is designed to be sturdy and friction-free. Endcaps form universal hanging brackets for attachment to wall or ceiling.

Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

### System Options

- **Extra Drop**—Up to 8' overall height, either white or black (white is standard for AV format, black for other formats).
- **Black Masking Borders**—Available on AV format screens: 1½" wide in sizes through 70" x 70"; 2" wide in larger sizes. All other formats have black borders on all four sides.
- **Projected Mounting Brackets**—6", 10" and 14" fixed, and 18¼"-24" adjustable. See below.
- **Pull Cord**—For sizes 70" wide and larger, a pull cord is included.

Complete Luma specifications: [www.draperinc.com](http://www.draperinc.com)



Size H x W	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area	Overall Size	Case Net Wt. Length (lbs.)
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			
50" x 50"	52¾"	9	6'	42½" x 56½"	46½" x 59½"	62¾"
60" x 60"	62¾"	11	7'	50" x 66½"	53½" x 69½"	72¾"
70" x 70"	72¾"	15	100"	60" x 80"	64" x 83½"	86¾"
84" x 84"	86¾"	21	10'	69" x 92"	73" x 96"	98¾"
72" x 96"	98¾"	22	<b>HDTV Format (16:9)</b>			
96" x 96"	98¾"	23	65"¹	31¾" x 56½"	43¾" x 59½"	62¾"
			73"¹	36" x 64"	48" x 69½"	72¾"
			82"¹	40½" x 72"	52½" x 74"	76¾"
			92"¹	45" x 80"	57" x 83½"	86¾"
			106"¹	52" x 92"	64" x 96"	98¾"
			<b>WideScreen Format (1.85:1)</b>			
			99"	47" x 87"	51" x 90"	92¾"
			108"	50" x 92"	54" x 96"	98¾"

¹ These HDTV sizes include 12" black drop as standard.

## Manual Screen Mounting Accessories

### Projected Mounting Brackets

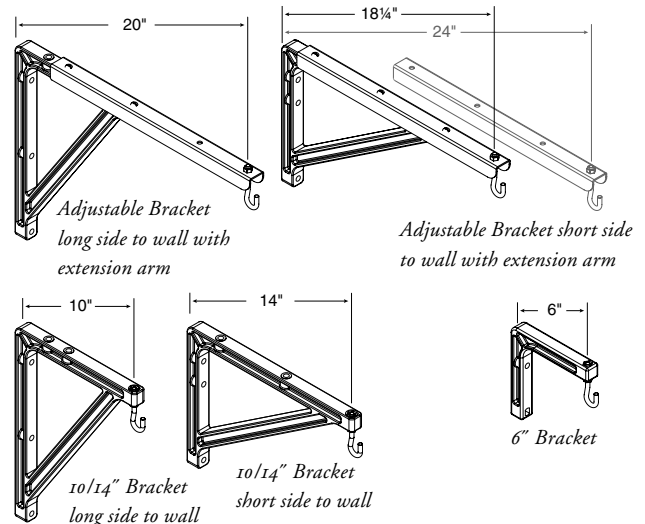
Sturdy, white (black for PREMIER and SILHOUETTE) angle brackets for wall-mounting screens to clear obstacles like chalkboards and maps. Ships in matching pairs.

#### Adjustable Brackets

- Extend screen 18¼", 20" or 24" from wall by selecting one of two mounting positions and adding our extension arm as shown. For LUMA 2 through 8' wide and all LUMA sizes. For V SCREEN, STAR, and LUMA (all sizes); LUMA 2 through 8' wide.

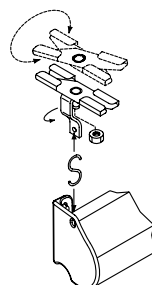
#### Non-Adjustable Brackets

- Screen can be extended 10" or 14" from wall by selecting one of two mounting positions as shown. For V SCREEN, STAR, and LUMA (all sizes); LUMA 2 through 8' wide.
- Extend screen 6" from wall with one mounting position. For all sizes of V SCREEN, STAR, LUMA, LUMA 2 and TARGA.



### T-Bar Twist Clips

Mount screens directly to T-irons supporting suspended ceilings—without tools. For V SCREEN (all sizes); LUMA and STAR through 70" wide.



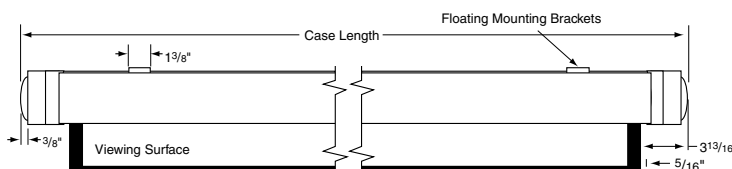
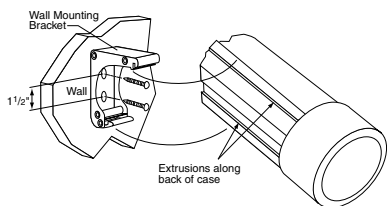
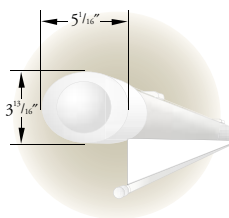
# Salara/Series M

*You've never seen a screen like this before.*

In your home or office, the SALARA makes a design statement on your wall. Spring-roller operated, the SALARA's small, elliptical case and domed endcaps are finished in solid white. Floating gunlatch wall-mounting brackets grip the screen case securely and are barely visible. Patent pending. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

### System Options

- **Extra drop**—Up to 8' overall height, either white or black (white is standard for AV format, black for other formats).
- **Black masking borders**—Borders are optional for AV format screens and standard for all other format screens.



Size HxW	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)								
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>			<b>HDTV Format (16:9)</b>														
50" x 50"	57 1/8"	18	6'	42 1/2" x 56 1/2"	46 1/2" x 59 1/2"	67 1/8"	20	65" <sup>1</sup>	31 3/4" x 56 1/2"	43 3/4" x 59 1/2"	67 1/8"	19								
60" x 60"	67 1/8"	21	7'	50" x 66 1/2"	53 1/2" x 69 1/2"	77 1/8"	24	73" <sup>1</sup>	36" x 64"	48" x 69 1/2"	77 1/8"	23								
70" x 70"	77 1/8"	25	100"	60" x 80"	64" x 83 1/2"	91 1/8"	29	82" <sup>1</sup>	40 1/2" x 72"	52 1/2" x 74"	81 3/8"	25								
84" x 84"	91 1/8"	30	10'	69" x 92"	73" x 96"	103 3/8"	33	92" <sup>1</sup>	45" x 80"	57" x 83 1/2"	91 1/8"	27								
72" x 96"	103 3/8"	33	<sup>1</sup> These HDTV sizes include 12" black drop as standard.																	
96" x 96"	103 3/8"	36	<b>WideScreen Format (1.85:1)</b>																	
						99"			47" x 87"			51" x 90"			97 3/8"			29		
						108"			50" x 92"			54" x 96"			103 3/8"			35		

# Evenroll Rope-and-Pulley

*Simple and economical for large audiences.*

When a large, roller-operated screen is required, choose the EVENROLL. Sizes to 30' x 30', installs easily to wall or ceiling. Rope-and-pulley operation utilizes nylon marine pulleys and flanged spools for smooth operation, with no mistracking cords. Select fiberglass matt white or glass beaded viewing surface.

If screen installs in center of stage and operating cords are to extend to wall, be sure to indicate distance from edge of screen to wall and request extra cord, double wheel pulley, and cord cleat on wall plate. Batten and roller are 18" wider than viewing surface (9" on each side). Screen depth is 6" (front to back). Maximum screen height when closed is 14".

### System Options

- **Extra Drop**—Up to 30' overall height, either white or black (white is standard).
- **Black Masking Borders**—2" wide.
- **Wall Mounting Brackets**—Extend screen 12" from wall. Formed of 1/4" strap steel. Divide screen width by 5 for proper number.



*Flanged aluminum spools at ends of roller contain operating cords, preventing them from tracking into the viewing surface. Nylon marine pulleys operate smoothly and silently. Steel housings prevent cords from slipping off pulleys.*



Size H x W	Ship Wt. (lbs.)	Size H x W	Ship Wt. (lbs.)
7' x 14'	70	15' x 20'	270
11' x 14'	75	20' x 20'	280
14' x 14'	80	12' x 24'	350
8' x 16'	80	18' x 24'	380
12' x 16'	95	24' x 24'	425
16' x 16'	110	14' x 28'	450
9' x 18'	185	21' x 28'	475
13' 6" x 18'	215	15' x 30'	450
18' x 18'	230	22' 6" x 30'	500
10' x 20'	260	30' x 30'	550

# Access/Series M

**Install the case now and the screen later.**

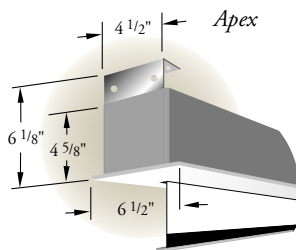
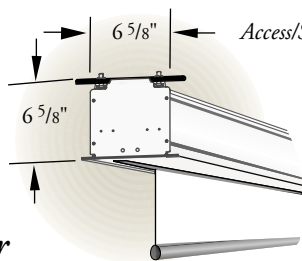
The ACCESS is the most versatile ceiling-recessed screen on the market. No other projection screen offers you the benefits of installing the case during construction and the viewing surface at a later date to eliminate job site damage. See page 6 for details of DRAPER'S ACCESS case. ACCESS/SERIES M is a spring-roller operated screen with your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

### System Options

- **Extra Drop**—Up to 12' overall height, either white or black (white is standard in AV format; black for all other formats).
- **Black Masking Borders**—Borders are optional for SERIES M in AV format. They are standard for all other formats.
- **Control Options**—Aluminum Operating Pole, choice of two sizes: 4' and 6'. Use in place of the factory-furnished pull cord.



Size HxW	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)	
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>					<b>HDTV Format (16:9)</b>					
50" x 50"	56"	33	6'	42½" x 56½"	46½" x 59½"	66"	36	92" <sup>1</sup>	45" x 80"	57" x 83½"	90"	45	
60" x 60"	66"	39	7'	50" x 66½"	53½" x 69½"	76"	43	106" <sup>1</sup>	52" x 92"	64" x 96"	102"	53	
70" x 70"	76"	45	100"	60" x 80"	64" x 83½"	90"	50	119"	58" x 104"	62" x 108"	114"	57	
84" x 84"	90"	51	10'	69" x 92"	73" x 96"	102"	53	133"	65" x 116"	69" x 120"	126"	72	
72" x 96"	102"	53	11'	78" x 104"	83" x 108"	114"	60	161"	79" x 140"	84" x 144"	150"	88	
96" x 96"	102"	56	150"	87" x 116"	92" x 120"	126"	72	<b>WideScreen Format (1.85:1)</b>					
7' x 9'	114"	57	15'	105" x 140"	109" x 144"	150"	88	99"	47" x 87"	51" x 90"	96"	48	
9' x 9'	114"	65						108"	50" x 92"	54" x 96"	102"	50	
8' x 10'	126"	72						120"	56" x 104"	60" x 108"	114"	55	
10' x 10'	126"	77						132"	63" x 116"	67" x 120"	116"	72	
9' x 12'	150"	88						162"	76" x 140"	80" x 144"	150"	88	
12' x 12'	150"	104											



# Apex

**The first spring-roller screen with automatic ceiling closure.**

The APEX is the first manually operated screen expressly designed for concealed installation. Extruded aluminum case installs above the ceiling. The APEX features a white closure panel at the bottom of the screen surface which seals the ceiling opening when the screen is retracted. Trim flange surrounds the perimeter of the screen case to finish the installation, whether in a suspended or drywall ceiling. Bottom of case and closure are finished in ceiling white. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

### System Options

- **Extra Drop**—Up to 8' overall height, either white or black (white is standard in AV format; black for all other formats).
- **Black Masking Borders**—Borders are optional for APEX in AV format. They are standard for all other formats.
- **Control Options**—Aluminum Operating Pole is furnished in one of two sizes: 4' and 6' as required.

Complete Access and Apex specifications: [www.draperinc.com](http://www.draperinc.com)



Size HxW	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)	Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)	
<b>Audio Visual Format</b>			<b>NTSC Format (4:3)</b>					<b>HDTV Format (16:9)</b>					
50" x 50"	53½"	25	6'	42½" x 56½"	46½" x 59½"	63½"	29	92" <sup>1</sup>	45" x 80"	57" x 83½"	87½"	37	
60" x 60"	63½"	29	7'	50" x 66½"	53½" x 69½"	73½"	35	106" <sup>1</sup>	52" x 92"	64" x 96"	100"	47	
70" x 70"	73½"	35	100"	60" x 80"	64" x 83½"	87½"	40	<b>WideScreen Format (1.85:1)</b>					
84" x 84"	87½"	40	10'	69" x 92"	73" x 96"	100"	48	99"	47" x 87"	51" x 90"	94"	37	
72" x 96"	100"	47						108"	50" x 92"	54" x 96"	100"	47	
96" x 96"	100"	50											

<sup>1</sup>These HDTV sizes include 12" black drop as standard.

# Ultimate Folding Screen

*The world's most precisely manufactured folding screen.*

The ULTIMATE FOLDING SCREEN is the first screen manufactured with 100% CNC (Computer Numerical Controlled) components and assembly. The surfaces and borders are CNC cut; the tubing is CNC machined; even rivet and snap holes are CNC placed. **No competitive product meets this standard.** UFS STANDARD surfaces may be interchanged freely with CINEFOLD surfaces and have a 2¾" black masking border. (CINEFOLD detailed on page 50.)

Our new LOCK & LOAD latch (patent pending) is designed for ease of operation and maximum life. LOCK & LOAD latches bite down when the surface is attached, making the frame extremely rigid. Latch parts are internal for better protection, and they completely fill the tube for superior strength. The resilient latch retention spring is captured and constantly flexed so that it cannot be dislodged. These advancements translate into the most user friendly and incredibly durable hinge locking mechanism available. Couple these advantages with clear anodized 1.25" x .070 wall aluminum tubing and you've got the precision and stability that allows DRAPER to offer the ULTIMATE FOLDING SCREEN in sizes through 152" x 200".

### Carrying Case

Each UFS comes packed in DRAPER's wheeled, heavy-duty polyethylene carrying case. The handles are molded into each end of the case. Lid handle is steel with a rubber grip and recessed into an inset. Lid is secured with two adjustable straps.

### System Options

- **Viewing Surfaces**—FLEXIBLE MATT WHITE for front projection, CINEFLEX for rear projection. All surfaces have square corners. Borders are electronically welded using a new PVC material that provides straighter, cleaner edges.
- **Frame & Legs**—Standard T-Legs support the UFS in a vertical position. HEAVY-DUTY LEGS are available to offer extra stability and keystone elimination (screen pictured above has HEAVY-DUTY LEGS). EXTRA HEAVY-DUTY LEGS are recommended for added stability on frame heights greater than 10½'.

### UFS Standard Sizes

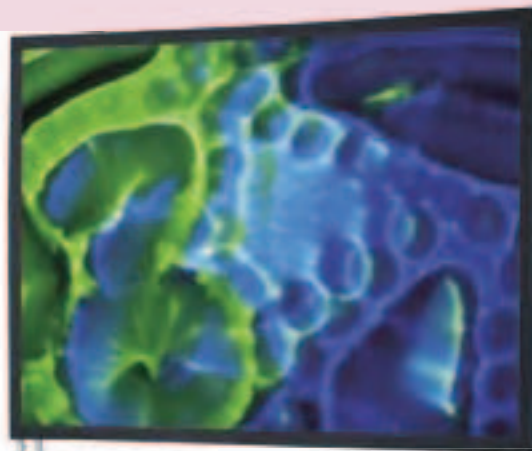
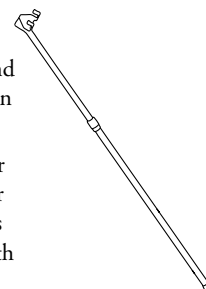
Overall Size H x W	Image Area	Nom. Diag.	Net Wt. (lbs.)	Case Dimensions	Overall Size H x W	Image Area	Nom. Diag.	Net Wt. (lbs.)	Case Dimensions
<b>Square Format (1:1)</b>					<b>HDTV Format (16:9)</b>				
6' x 6'	66½" x 66½"	—	71	9½" x 13½" x 45"	56" x 96"	50½" x 90½"	106"	74	9½" x 13½" x 45"
7' x 7'	78½" x 78½"	—	81	12" x 15¾" x 52"	62" x 108"	56½" x 102½"	119"	81	9½" x 13½" x 45"
8' x 8' <sup>1</sup>	90½" x 90½"	—	87	12" x 15¾" x 58"	69" x 120"	63½" x 114½"	133"	87	9½" x 13½" x 45"
9' x 9' <sup>1</sup>	102½" x 102½"	—	93	12" x 15¾" x 52"	83" x 144"	77½" x 138½"	161"	91	12" x 15¾" x 52"
10' x 10' <sup>1</sup>	114½" x 114½"	—	99	12" x 15¾" x 52"	112" x 196" <sup>1</sup>	106½" x 190½"	220"	97	12" x 15¾" x 58"
12' x 12' <sup>2</sup>	138½" x 138½"	—	112	12" x 15¾" x 58"	<b>Slide Format (1.48:1)</b>				
<b>NTSC Format (4:3)</b>					48" x 72"	42½" x 66½"	—	77	9½" x 13½" x 45"
54" x 74"	48½" x 68½"	7½'	66	9½" x 13½" x 45"	60" x 90"	54½" x 84½"	—	78	9½" x 13½" x 45"
62" x 83"	56½" x 77½"	100"	68	12" x 15¾" x 52"	72" x 108"	66½" x 102½"	—	82	9½" x 13½" x 45"
6' x 8'	66½" x 90½"	10'	73	12" x 15¾" x 52"	84" x 126"	78½" x 120½"	—	87	12" x 15¾" x 52"
7'6" x 10' <sup>1</sup>	84½" x 114½"	150"	74	12" x 15¾" x 52"	96" x 144" <sup>1</sup>	90½" x 138½"	—	89	12" x 15¾" x 52"
9' x 12' <sup>1</sup>	102½" x 138½"	15'	87	12" x 15¾" x 52"	<sup>1</sup> Heavy-Duty Legs are recommended for frame heights 7½' and greater.				
10'6" x 14' <sup>2</sup>	120½" x 162½"	200"	93	12" x 15¾" x 52"	<sup>2</sup> Super Heavy-Duty Legs are recommended for added stability on frame heights 10½' and greater.				
144" x 196" <sup>2</sup>	138½" x 190½"	240"	106	12" x 15¾" x 58"					

## StageHand

With the DRAPER STAGEHAND, it only takes one person to set up most folding screens. The STAGEHAND consisting of two "hooks" mounted on the end of a telescoping pole. The pole has a non-skid rubber tip. The hooks firmly hold and lift the top of a folding screen frame. Extend the pole to support the screen as a "third leg". This frees the tech

to walk to the two legs of the screen, unfold them and lock them. Then, it's just a matter of lifting the screen fully onto its feet and removing the hook.

DRAPER'S STAGEHAND comes in two sizes to fit either the ULTIMATE FOLDING SCREEN's 1½" thick frame, or the CINEFOLD 1" thick frames (page 50). It telescopes from 65" to 120" in length, and is suitable for use with screens in sizes through 7'6" x 10'.



UFS with Heavy-Duty Legs (optional) and carrying case. Patent Pending.



Lock & Load Latch Closed



Corner Hinge Open



Corner Hinge Closed

# Dress Kits for UFS, Cinefold and Truss-Style Cinefold

*For a professional appearance.*

Make your presentation one to remember. Create a professional, theatre-like appearance by draping your ULTIMATE FOLDING SCREEN, CINEFOLD and TRUSS-STYLE CINEFOLD with an eye-catching velour DRESS KIT. Drapery curtains surround the viewing surface, pulling the audience's focus to your presentation on the screen.

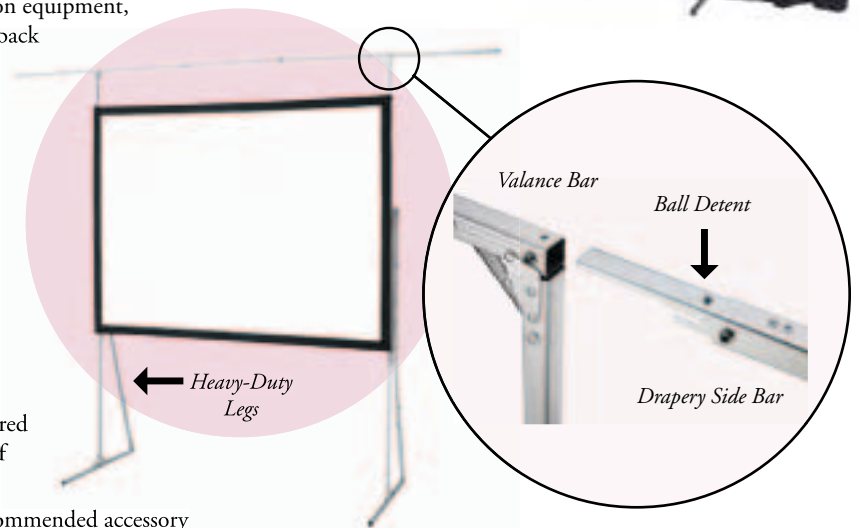
All DRESS KIT fabrics are flame proof, meeting fire safety codes. They are especially worthwhile for rear screen presentations. In addition to framing your presentation, the velour curtains will hide projection equipment, shield projector light from the audience, and help hold back ambient light from entering the projection area.

A complete DRESS KIT includes 46" skirt, 12" valance and valance bar, and a pair of 32" side drapes and drapery bars. 100% CNC (Computer Numerical Controlled) valance bar and drapery bars fit snugly into the top of the UFS frame—no tools needed.

The viewing surface is fitted with snaps to accept the skirt. For the CINEFOLD, select an optional adjustable Skirt Bar which allows for adjustment of screen aspect ratio by raising the skirt in 6" increments.

## System Options

- **Fabric**—20 oz. velour made from 100% cotton is offered in black (standard), rich navy (optional) or a variety of custom colors. Details available on request.
- **Legs**—For extra stability, HEAVY-DUTY LEGS are a recommended accessory for all CINEFOLDS and ULTIMATE FOLDING SCREENS when using a DRESS KIT. Extra HEAVY-DUTY LEGS are available for the UFS. ANTI-SWAY STABILIZERS are highly recommended for all CINEFOLDS with DRESS KITS. ANTI-SWAY STABILIZERS are a standard with feature with all TRUSS-STYLE CINEFOLDS.
- **Carrying Case**—A wheeled polyethylene carrying case is optional for all DRESS KITS for the UFS and CINEFOLD. A heavy-duty carrying case is standard with all Dress Kits for the Truss-Style Cinefold.

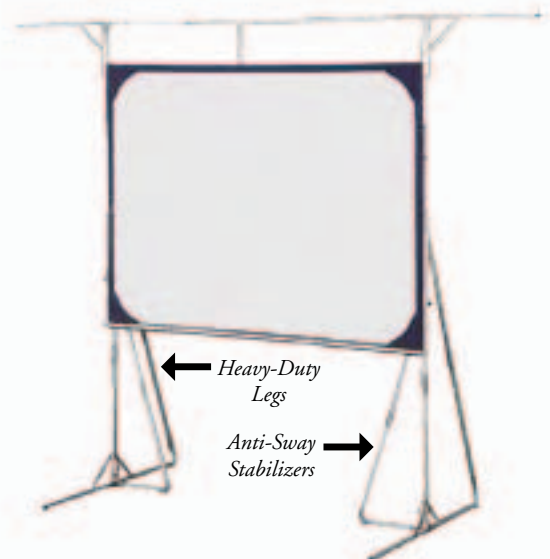


The valance bar assembles to the top of the Ultimate Folding Screen frame. Two drapery side bars slide easily into each end of the valance bar and lock into place with a ball detent (shown above).



At left: navy velour drapes attached to a Cinefold with Cineflex viewing surface.

At right: Cinefold with Cineflex viewing surface, valance bar, drapery bars, skirt bar, optional Heavy-Duty Legs and optional Anti-Sway Stabilizers.



# Cinefold

*The original folding screen in a wheeled case.*

CINEFOLD is a portable screen that packs into an innovative case with wheels. Trainers, presenters, producers, everyone who takes a show on the road will appreciate the CINEFOLD's many advantages. Every CINEFOLD sets up quickly without tools, and collapses into a compact luggage-type wheeled case for travel or storage.

The CINEFOLD frame and legs are built of 1" square structural aluminum tubing and are conveniently color-coded and labeled for quick assembly. All aluminum is finished in scratch-resistant silver powder coat. Black is also available. Steel parts are cadmium plated. When assembled, the bottom of the frame is normally 44" above the floor and adjusts in 6" increments. Hinges are tempered steel and lock positively. Frame, legs, viewing surfaces and accessories are all standardized for easy replacements or additions to the system. Front projection and rear projection surfaces are easily interchangeable. Sizes and formats to meet virtually any specification: custom and truss sizes available.

## System Options

- **Viewing Surfaces**—Choose a flexible matt white for front projection or CINEFLEX vinyl for rear projection. Surfaces are bordered in black and are interchangeable.
- **Sizes**—Standard sizes are shown below. Multi-image and custom sizes available.
- **Carrying Case**—The CINEFOLD comes packed in DRAPER's heavy-duty, molded polyethylene wheeled carrying case. Each case has two wheels. The handles are molded into each end of the case. Lid handle is steel with a rubber grip and recessed in an inset. Lid is secured with two adjustable straps.



Overall Size H x W	Image Area	Nominal Diagonal	Shipping Wt. (lbs.)	Carrying Case Size (H x W x L)
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### Square Format (1:1)

5' x 5'	56" x 56"	—	56	9½" x 13½" x 45"
6' x 6'	68" x 68"	—	57	9½" x 13½" x 45"
7' x 7'	80" x 80"	—	65	12" x 15¾" x 52"
8' x 8'	92" x 92"	—	70	12" x 15¾" x 58"
9' x 9' <sup>1</sup>	104" x 104"	—	75	12" x 15¾" x 52"
10' x 10' <sup>1</sup>	116" x 116"	—	80	12" x 15¾" x 52"
12' x 12' <sup>2</sup>	140" x 140"	—	90	12" x 15¾" x 58"

### NTSC Format (4:3)

47" x 60"	43" x 56"	6'	53	9½" x 13½" x 45"
54" x 74"	50" x 70"	7½'	55	9½" x 13½" x 45"
62" x 83"	58" x 79"	100"	59	12" x 15¾" x 52"
6' x 8'	68" x 92"	10'	60	9½" x 13½" x 45"
7'6" x 10'	86" x 116"	150"	70	12" x 15¾" x 52"
9' x 12' <sup>1</sup>	104" x 140"	15'	75	12" x 15¾" x 52"
10'6" x 14' <sup>2</sup>	122" x 164"	200"	85	12" x 15¾" x 52"

### HDTV Format (16:9)

56" x 96"	52" x 92"	106"	60	9½" x 13½" x 45"
62" x 108"	58" x 104"	119"	65	9½" x 13½" x 45"
69" x 120"	65" x 116"	133"	70	9½" x 13½" x 45"
83" x 144"	79" x 140"	161"	73	12" x 15¾" x 52"

### Slide Format (1.48:1)

4' x 6'	44" x 68"	—	55	9½" x 13½" x 45"
5' x 7'6"	56" x 86"	—	62	9½" x 13½" x 45"
6' x 9'	68" x 104"	—	63	9½" x 13½" x 45"
7' x 10'6"	80" x 122"	—	70	12" x 15¾" x 52"
8' x 12' <sup>1</sup>	92" x 140"	—	72	12" x 15¾" x 52"

<sup>1</sup> Heavy-duty legs recommended.

<sup>2</sup> Heavy-duty legs and anti-sway stabilizers recommended.

**Please Note:** Shipping weights and carrying cases are based on one standard CINEFOLD: frame, standard T-legs, snap-on viewing surface and carrying case. Options may increase the weight and/or the carrying case size. Custom sizes are available—Inquire if the size you need is not shown.

## T-Legs

Standard legs constructed of sturdy 1" square hard-alloy structural aluminum tubing, clear etched and anodized for long life. Hinged inverted "T" shape, with rubber-tipped feet.

## Keystone Elimination

T-legs may be adjusted to allow the CINEFOLD to tilt forward up to 8°.

Eases viewing and helps to compensate for image distortion.

## ① Heavy-Duty Legs

Extra reinforcement against front-to-back movement. Strongly recommended for any screen 7½' x 10' or larger, or for any screen used with a DRESS KIT.

## ② Anti-Sway Stabilizers

Reinforce against side-to-side movement. May be mounted either inside or outside CINEFOLD leg. Recommended for screens 10½' x 14' and larger, and for use with DRESS KITS.

## Joining Clamp

Join two or more screens for a really wide screen. Clamps join screen frames from back, then L-shaped section wraps to front and accepts snaps on masking strips. Masking strips conceal hardware and provide image continuity. White masking for use with matt white; black for CINEFLEX.



# Truss-Style Cinefold

*For larger-than-life presentations.*

The TRUSS-STYLE CINEFOLD has extra-rigid truss-style frames and legs constructed of parallel sections of 1" square hard-alloy aluminum tubing, heliarc welded to form a sturdy 6" wide truss. All aluminum is finished in scratch-resistant silver powder coat. Black is also available. Steel parts are cadmium plated. Truss frames have 6" wide piano hinges reinforced by two positive locking hinge latches and a HANDY CRANK directly through the hinge point.



All TRUSS-STYLE CINEFOLDS include heavy-duty legs and anti-sway stabilizers.

## System Options

- **Viewing Surfaces**—TRUSS-STYLE CINEFOLDS are available with flexible matt white front and CINEFLEX rear projection surfaces.
- **Carrying Case**—Two or more heavy-duty, molded polyethylene wheeled carrying cases are included. Dimensions are 13" H x 20<sup>5</sup>/<sub>8</sub>" W x 84<sup>1</sup>/<sub>8</sub>" L.
- **Dress Kits**—Optional Dress Kit includes: 44" skirt, 12" valance and two 32" side drapes, all in rich velour. Tubular aluminum valance bar and drapery bars attach without tools to the DRESS KIT fittings found on all TRUSS-STYLE CINEFOLD frames. The viewing surface is fitted with snaps to accept the skirt, or select optional adjustable skirt bar. Skirt bar allows for adjustment of screen size and aspect ratio by raising the skirt in 6" increments.

Overall Size	Image Area	Shipping Wt. (lbs.)	No. Cases
<b>Square Format (1:1)</b>			
9' x 9'	8' x 8'	220	2
10' x 10'	9' x 9'	220	2
11' x 11'	10' x 10'	230	2
13' x 13'	12' x 12'	240	2
<b>NTSC Format (4:3)</b>			
7' x 9'	6' x 8'	215	2
8'6" x 11'	7'6" x 10'	220	2
10' x 13'	9' x 12'	230	2
11'6" x 15'	10'6" x 14'	255	2
13' x 17'	12' x 16'	265	2
16' x 21'	15' x 20'	275	2
19' x 25'	18' x 24'	310	3
<b>HDTV Format (16:9)</b>			
10' x 17'	9' x 16'	220	2
11' x 19'	10' x 18'	240	2
12'3" x 21'	11'3" x 20'	255	2
14'6" x 25'	13'6" x 24'	300	3

*Please note: Shipping weight and number of cases are based on one Truss-Style Cinefold, with frame, heavy-duty legs, anti-sway stabilizers, one viewing surface in pouch and carrying cases. Screens with additional viewing surfaces and hardware will be heavier and may require additional cases.*



## Handy Cranks

HANDY CRANKS are <sup>5</sup>/<sub>16</sub>" dia. crankbolts, for quick assembly without tools for both the CINEFOLD and TRUSS-STYLE CINEFOLD.

## L-Brace

All CINEFOLDS over 25' wide feature a special back brace consisting of a full-width truss attached to the top of the frame at right angles to the screen. Adds strength and prevents sagging, while maintaining complete portability.



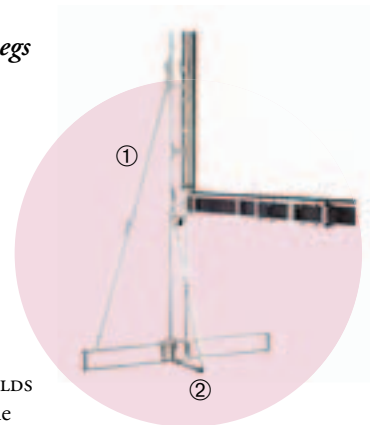
## Frame Stiffeners

All horizontal hinges on TRUSS-STYLE CINEFOLDS are reinforced by truss frame stiffeners, which mount across the back of the hinge and are held rigidly in place by 8 HANDY CRANKS.



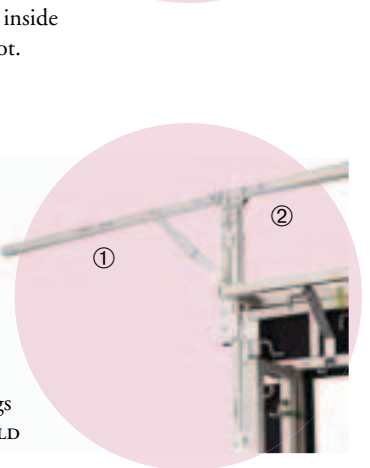
## ① Heavy-Duty Legs

Standard equipment on all TRUSS-STYLE CINEFOLDS, heavy-duty legs reinforce against front-to-back movement.



## ② Anti-Sway Stabilizers

Furnished with all TRUSS-STYLE CINEFOLDS to prevent side-to-side movement. Install to inside or outside of truss foot.



## Dress Kits

A complete DRESS KIT includes: 44" skirt, 12" valance and two 32" side drapes, all in rich velour. Tubular aluminum side drapery bars ① and valance bar ② attach without tools to the dress kit fittings found on all CINEFOLD frames. The viewing surface is fitted with snaps to accept the skirt, or select optional adjustable skirt bar. Skirt bar allows for adjustment of screen size and aspect ratio by raising the skirt in 6" increments.

# Pipe & Drape Runoffs

This universal portable PIPE & DRAPE RUNOFF (PDR) system can extend the theatre-like appearance of a CINEFOLD, TRUSS-STYLE CINEFOLD or ULTIMATE FOLDING SCREEN DRESS KIT on either side of your screen. PDR is a completely free-standing modular system that can be assembled in minutes to virtually any size or configuration—without tools. Also suitable for use as a room divider or to mask unsightly areas.

Drape panels are available in 13' or 50" widths, to be reduced for fullness. Height of 12' or 16', with hems top and bottom to accept horizontal drape supports. All fabrics are flame retardant.

## Fabrics

- **Velour**—100% cotton. Black or rich navy. Additional custom colors are available. Details available on request.
- **Vellite**—Lightweight brushed polyester. Black or rich navy.
- **Classic Twill**—Lightweight polyester with special weave to reduce wrinkling and subdue luster. Black or rich navy. Additional custom colors are available. Details available on request.
- **Poly-Knit**—Lightweight smooth polyester. Black or rich navy.

## Horizontal Drape Support

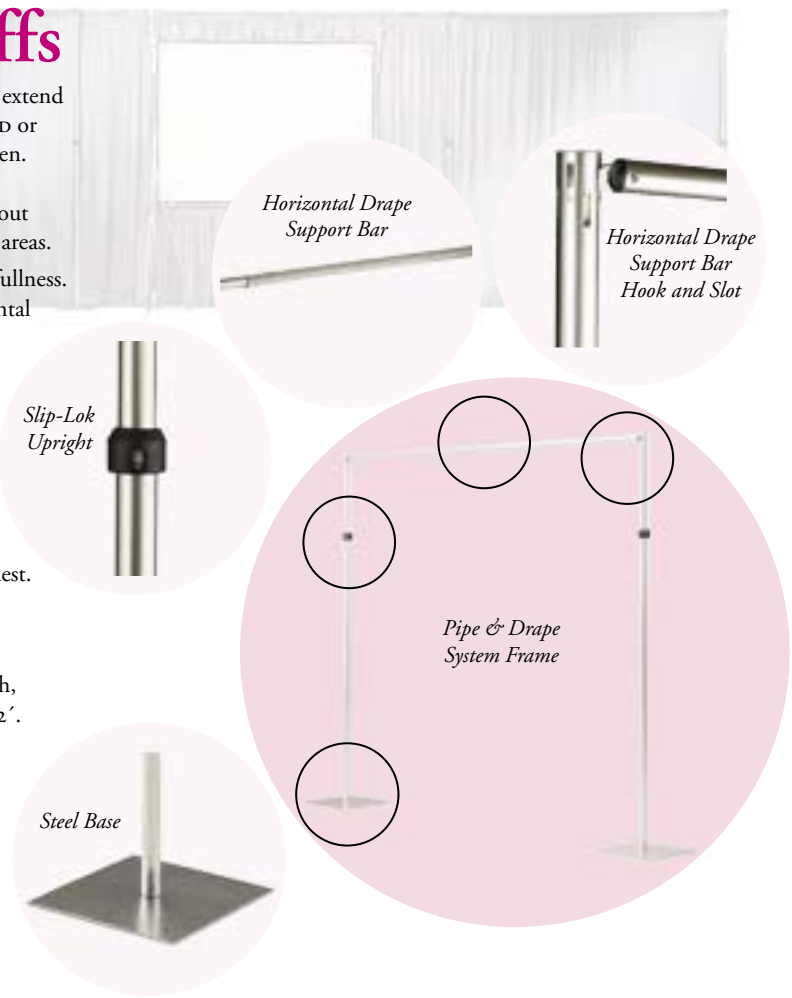
Infinitely adjustable, with preset positive locking stops—10' length, with stops at 6', 8' and 10'; 12' length, with stops at 7', 10' and 12'. Attaches to uprights with sturdy steel hook and slot.

## Slip-Lok Upright

Telescoping uprights are infinitely adjustable from minimum to maximum height settings. Friction lock bears virtually any weight, yet has fingertip release.

## Steel Bases

Sturdy and inconspicuous. Alternate stud positions allow for setup against a wall or in a corner.  $\frac{3}{8}$ " x 18" x 18" (35 lbs.), or choose a lightweight base,  $\frac{3}{16}$ " x 18" x 18" (18 lbs.).



# Piper

DRAPER'S PIPER is a high-quality portable screen that's easy to carry and afford, and it's a breeze to set up. All you have to do is lift the upright, choose its height and raise the screen. Now let the show begin.

While others manufacture portable screens with damage-prone Mylar, DRAPER'S high-quality, low-cost PIPER has a tear-proof fiberglass matt white viewing surface, black borders and 30" of black "rise" below the image area.

During storage and transportation, the telescoping upright collapses and clamps to the back of the matt black extruded aluminum case. For set-up, rotate feet perpendicular to the case and extend the upright to desired height. A single push-button unlocks the screen, which can be easily raised with one hand, and its handle serves to secure the screen on the gooseneck of the upright. Locking levers allow for infinite adjustment within the upright length.



Clockwise: Piper open and ready for the show; screen retracted for a look at its telescoping upright; closed for storage.

Nominal Diagonal	Image Area (H x W)	Height Range	Ship Wt. (lbs.)	Net Wt. (lbs.)	Dimensions Closed (D x H x L)
<b>NTSC Format (4:3)</b>					
60"	36" x 48"	45¼"–75¼"	11	9	2½" x 3¾" x 53¾"
72"	43½" x 58"	52¾"–82¾"	13	11	2½" x 3¾" x 63¾"
84"	50½" x 67¼"	59¾"–89¾"	15	13	2½" x 3¾" x 73"
<b>HDTV Format (16:9)</b>					
55"	27" x 48"	36¼"–66¼"	11	9	2½" x 3¾" x 53¾"
66½"	32½" x 58"	41¾"–71¾"	13	11	2½" x 3¾" x 63¾"
77"	37¾" x 67¼"	47"–77"	15	13	2½" x 3¾" x 72¾"

# RoadWarrior

DRAPER's original ultra-portable projection screen, ROADWARRIOR, lets you travel light and still deliver a big presentation. Impress your audience with its ease of operation: open the lid and the screen will raise and lower with a gentle touch. Pneumatic cylinders control the scissor action of the back brace, positioning the screen at just the required height. Set the ROADWARRIOR on a tabletop or on the floor. Aluminum housing and feet are sturdy and streamlined. Viewing surface includes 30" of black "rise" below the image area.

Nominal Diagonal	Image Area (H x W)	Height Range	Shipping Wt. (lbs.)	Net Wt. (lbs.)	Dimensions Closed (D x H x L)
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### NTSC Format (4:3)

60"	36" x 48"	41"-69¼"	23	21	4½" x 5" x 53½"
80"	48" x 64"	53"-81¾"	24	22	4½" x 5" x 69½"

### HDTV Format (16:9)

55"	27" x 48"	32"-69¼"	23	21	4½" x 5" x 53½"
73"	36" x 64"	41"-81¾"	24	22	4½" x 5" x 69½"



RoadWarrior front and back

Detachable shoulder strap included.



# Traveller

Need more size options? Choose DRAPER's portable TRAVELLER. Available in a wider range of sizes. Compatible with resolutions up to 1200 x 1600 and beyond, its tear-resistant fiberglass matt white screen surface is designed for computer-driven presentations and meets the needs of today's LCD projectors and computer-generated text—high resolution, broad viewing cone and accurate color rendition. All viewing surfaces have ¾" black borders on the vertical sides and are supported at the top by a 7/8" black aluminum dowel with a full-width slat saddle.

DRAPER's TRAVELLER is easy to set up. Just place it on the floor or table. Rotate feet into position for stability. Release two clasps to open the lid. Raise screen to desired height. Secure the top dowel to the infinitely adjustable telescoping support that locks to position the screen at the desired height. Includes 42" of black "rise" below the image area.

Nominal Diagonal	Image Area (H x W)	Height Range	Shipping Wt. (lbs.)	Net Wt. (lbs.)	Dimensions Closed (D x H x L)
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### NTSC Format (4:3)

50"	30" x 40"	45½"-77½"	16	14	4½" x 5" x 46½"
60"	36" x 48"	45½"-83½"	17	15	4½" x 5" x 54½"
72"	43½" x 58"	63½"-91"	21	19	4½" x 5" x 63½"
80"	48" x 64"	63½"-95½"	24	21	4½" x 5" x 70½"
100"	60" x 80"	63½"-107½"	27	25	4½" x 5" x 86½"

### HDTV Format (16:9)

46"	22½" x 40"	45½"-77½"	16	14	4½" x 5" x 46½"
55"	27" x 48"	45½"-83½"	17	15	4½" x 5" x 54½"
66½"	32½" x 58"	63½"-91"	21	19	4½" x 5" x 63½"
73"	36" x 64"	63½"-95½"	24	21	4½" x 5" x 70½"
92"	45" x 80"	63½"-107½"	27	25	4½" x 5" x 86½"



Traveller front and back



Optional Padded Carrying Case for RoadWarrior and Traveller



½" thick shock-absorbing materials pads the Carrying Case

## System Options For RoadWarrior and Traveller

- **Viewing Surfaces**—Fiberglass matt white, glass beaded and HIGH CONTRAST GREY are the choices.
- **Padded Carrying Case**—DRAPER's Padded Carrying Case will protect your TRAVELLER from life's hard knocks. Constructed of ½" thick shock-absorbing material sandwiched between tear-resistant black nylon inner and outer sleeves. Case protects screen from dents, scuffs and scratches. Zippered case has heavy nylon strap (removable) for easy transport.

# Diplomat

## Built-in keystone eliminator.

The DIPLOMAT combines simplicity of design, rugged components and careful workmanship. Easy setup and one-hand case adjustment make the DIPLOMAT a pleasure to use. Suspension slat saddle in all sizes maintains a flat viewing surface. Exclusive BELL LEG LOCK protects the DIPLOMAT's sturdy gabled aluminum legs during storage and transportation (see detail photo). Your choice of viewing surfaces: fiberglass matt white, glass beaded or HIGH CONTRAST GREY.

### System Options

- **Case Color**—Steel case and endcaps finished in black. Case measures 4" high x 3 3/8" wide.
- **Black Masking Borders**—Optional for AV format screens, standard for all other formats.
- **Keystone Eliminator**—The DIPLOMAT's built-in keystone eliminator extends 18". Invisible when not in use.
- **Patented Bell Leg Lock**—Exclusive BELL LEG LOCK clamps legs securely to center tube for storage and transportation. Eliminates all risk of bent or broken legs. Releases easily for setup.
- **Carrying Case**—Black PVC-backed 600-denier polyester zippered carrying case is optionally available for storage and transportation.



Keystone Eliminator



Bell Leg Lock



U.S. Patent No. 4,097,013

# Diplomat/R

Case finished for durability in the rental marketplace.



All the best features of the DIPLOMAT made more durable to withstand the wear and tear of the rental market. The standard case for a DIPLOMAT/R is scratch resistant baked-on black plastisol on steel. Or choose a rugged, black carpet covered case (pictured above). In same standard sizes as the DIPLOMAT.

# Consul

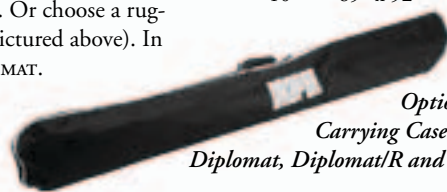
Quality and economy.

Lightweight yet durably constructed, the CONSUL is designed specifically for audiovisual use. Specified for schools worldwide. The CONSUL's legs are of sturdy gabled steel. 60" and 70" sizes feature suspension slat saddle, keeping viewing surface flat. Case adjusts easily to any level on tripod upright.

Choice of viewing surfaces: fiberglass matt white or glass beaded.

### System Options

- **Case Color**—Steel case and endcaps finished in black. Case measures 3 1/2" high x 2 3/4" wide.
- **Black Masking Borders**—1 1/2" borders are optional.
- **Carrying Case**—Black PVC-backed 600-denier polyester, zippered carrying case is optionally available for storage and transportation.
- **Optional Keystone Eliminator**—Will extend top of viewing surface up to 9".



Optional Carrying Case for Diplomat, Diplomat/R and Consul.



Size H x W	Net Wt. (lbs.)	Case Length	Bottom of screen at lowest level	Top of screen at highest level
<b>Audio Visual Format—Consul Tripod Screen</b>				
40" x 40"	12	42 1/4"	16 1/2"	78"
50" x 50"	14	52 1/4"	16 1/2"	92"
60" x 60"	19	62 1/4"	20"	107 1/4"
70" x 70"	21	72 1/4"	20"	109 1/4"
<b>Audio Visual Format—Diplomat and Diplomat/R Tripod Screens</b>				
50" x 50"	23	52 1/4"	17"	100 1/4"
60" x 60"	26	62 1/4"	18 1/2"	110 3/4"
70" x 70"	26	72 1/4"	18 1/2"	126 3/4"
84" x 84"	32	86 1/4"	19 3/4"	126 3/4"
72" x 96"	37	98 1/4"	19 3/4"	126 3/4"
96" x 96"	39	98 1/4"	19 3/4"	126 3/4"

Size Nominal Diagonal	Image Area	Overall Size	Net Wt. (lbs.)	Case Length	Bottom of screen at lowest level	Top of screen at highest level
<b>NTSC Format (4:3)—Diplomat and Diplomat/R Tripod Screens</b>						
6'	42 1/2" x 56 1/2"	46 1/2" x 59 1/2"	24	62 1/4"	18 1/2"	110 3/4"
7'	50" x 66 1/2"	53 1/2" x 69 1/2"	27	72 1/4"	18 1/2"	126 3/4"
100"	60" x 80"	64" x 83 1/2"	31	89 1/4"	19 3/4"	126 3/4"
10'	69" x 92"	73" x 96"	37	98 1/4"	19 3/4"	126 3/4"

# Rear Projection Screens

*From the acknowledged leader in the most demanding area of the industry come 6 unique rear screens.*

Each rear projection system has a unique set of parameters which define what screen is required—audience seating pattern, projection equipment (light output, resolution and image format) and ambient light level. DRAPER is the industry leader in the development of rigid rear projection screens. Only DRAPER can provide *six* unique rear projection screen technologies to satisfy any requirement.

- **CINESCREEN®**—DRAPER's diffusion coated projection screen. Our wide range of optical coatings and tints allows you to select a combination that's customized to fit your exact application. Suitable for use with single-lens video and data projectors. Page 57.
- **DIAMONDSCREEN™**—DRAPER's optical rear projection screen. Provides an extremely bright image with a full 180° viewing cone. The DIAMONDSCREEN's optics are specially designed for the best reproduction of images projected by today's projectors, with maximum brightness. NEW: DIAMONDSCREEN HC now available by quotation. This low-gain, high-contrast version of the DIAMONDSCREEN is for use with today's bright projectors. Page 58.
- **VORTEX**—This unique rear screen combines the benefits of diffusion and optical technologies. Provides an exceptionally wide viewing cone—in both horizontal and vertical axes—with the uniformity required for demanding control center applications. Page 58.
- **IRUS—INFINITE RESOLUTION UNIFORMITY SCREEN**—Proprietary technology, available only from DRAPER. The IRUS is designed specifically for use with high resolution single lens video and data projectors. Provides a crisp, clear image. Page 59.
- **HOLOVIEW**—Revolutionary rear screen adds drama to point-of-purchase and public displays. The transparent screen is suspended in an inconspicuous aluminum frame. When a projector's beam strikes it, the image seems to come from nowhere! Page 59.
- **HIGH CONTRAST BLACK**—a super high contrast black rear screen for videowall and other demanding requirements. Provides vivid color contrast under any ambient lighting condition. Advanced optical light control and the totally black surface prevent ambient light from degrading the black level in an image.



*ConAgra Foods, Continental Divide Training Room, Greeley, Colorado. 120" diagonal IRUS rear screen. Photo courtesy of Ceavco Audio Visual Company, Inc.*

DRAPER dealers and personnel will be pleased to give you personal assistance in selecting a rear projection screen to fit your requirements.

*Complete specifications for all Draper rear projection screens and systems are located on the Internet at [www.draperinc.com](http://www.draperinc.com).*

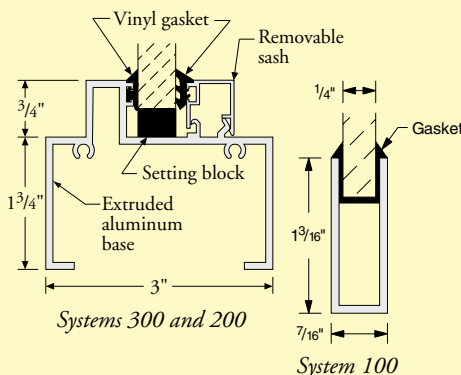
## Cineframe®

### For Draper Rear Screens

Rigid rear screen installation costs and problems are virtually eliminated with factory-installed CINEFRAMES. Simply cut a rough opening  $\frac{1}{4}$ " larger than the overall frame size, slide the screen in, shim into position and trim as desired. No need to hire a glazier. Four styles available. All are extruded of 6063-T5 alloy anodized aluminum.

#### System 400

SYSTEM 400 simplifies your installation. Slide the screen into the rough opening and bolt into place. No finish carpentry required. SYSTEM 400 has a  $1\frac{3}{4}$ " wide dress trim that hides the opening. The audience only sees an attractive frame around a rear screen. Suitable for  $\frac{3}{8}$ " CINEPLEX in sizes through 9' x 12';  $\frac{1}{4}$ " CINEPLEX in all sizes; IRUS, VORTEX, HIGH CONTRAST BLACK and DIAMONDSCREEN in all sizes through 200" diagonal. Black finish.



#### System 300

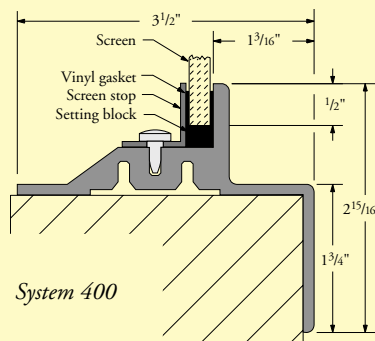
Adds  $\frac{1}{4}$ " to overall size of screen; reduces clear image area by 1" in each dimension. Suitable for any CINESCREEN  $\frac{3}{8}$ " or  $\frac{1}{2}$ " thick; DIAMONDSCREEN in sizes 160"—200" diagonal. Black or clear anodized finish.

#### System 200

Same sturdy design as the SYSTEM 300, extruded to a slightly thinner wall. Suitable for  $\frac{1}{4}$ " or  $\frac{3}{8}$ " CINEGLASS in sizes through 8' x 10';  $\frac{1}{4}$ " or  $\frac{3}{8}$ " CINEPLEX in all sizes; IRUS, VORTEX and HIGH CONTRAST BLACK in all sizes; DIAMONDSCREEN through 160" diagonal. Black or clear anodized finish.

#### System 100

Simple, clean frame for smaller rear screens. Adds  $\frac{3}{4}$ " to overall height and width of screen; reduces clear image area by  $\frac{7}{8}$ " in each dimension. Suitable for  $\frac{1}{4}$ " CINEGLASS in sizes through 4' x 5';  $\frac{1}{4}$ " CINEPLEX, IRUS, VORTEX, HIGH CONTRAST BLACK and DIAMONDSCREEN in sizes through 100" diagonal. Black or clear anodized finish.



# Planning For Rear Projection

A number of variables must be considered to determine the correct screen size, placement and optical qualities—

**Projector**—DRAPER recommends that you provide us the details of what projector and lens you intend to use with your application.

**Size**—For legibility, we suggest this rule:

- L = distance from screen to back row of seats
- Screen height  $\geq L \div 4$  for 4:3 aspect ratio. (For dual image presentation, use  $L \div 3$ . For Command/Control centers, use  $L \div 2$ ).

**Placement**—Screen should be installed high enough for all seats to have an unobstructed view, but with its center no more than 20° above the eye level of any viewer. In a room with a level floor, the bottom of the screen should be 36"-48" above the floor.

**Audience**—Ideally, all viewers should be seated within 30° of the projection axis and never more than 45° off axis. Set the front row of seats back at least twice the width of the screen.

**Audience Lighting**—Most DRAPER rear projection screens are designed for use in lighted rooms. Optical qualities will be enhanced if lighting is controlled so that no direct or reflected light strikes the screen.

**Projection Area**—Ideally, the depth of the projection room should be 2x the screen width. This is often not feasible, so high quality first surface mirrors may be used to fold the projection path, achieving the desired image size within a shorter distance. An RPX from DRAPER is an easy, convenient solution. (See page 60-61 for details.)

## Brightness & Uniformity

The charts at right are useful for evaluating gain (brightness) and uniformity of DRAPER rear projection screens. The flatter the curve within the cone where the audience will be seated, the more uniform the image they will see. Many current projectors are much brighter in the center of the image than at the edge, so this is a critical factor in the success of your installation. The higher the curve against the "Y" axis, the brighter the image at center.

DIAMONDSCREEN's complex cast acrylic lens system distributes projected light in a wedge-like formation covering a wide horizontal viewing cone, minimizing vertical light distribution. Provides excellent brightness and uniformity and still considered one of the best rear screens for almost every application. When vertical viewing cones are large, DRAPER recommends the VORTEX or HIGH CONTRAST BLACK. (Refer to page 58 for more on DIAMONDSCREEN.)

The VORTEX combines the best features of two rear screen technologies—optical and diffusion. Provides extraordinary uniformity and a broad viewing cone. (See page 58.)

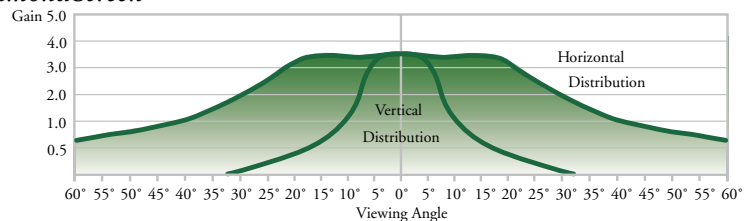
The IRUS provides outstanding uniformity and legibility with projectors of all types. This screen was designed specifically to meet the resolution needs of SXGA, UXGA and higher projectors. (See page 59.)

Customize your CINESCREEN with optical coatings for a precise fit to your room and projection equipment. Select the optical coating for brightness and uniformity, choose the optical tint to set the contrast level and specify the desired substrate. (See page 57 for details.)

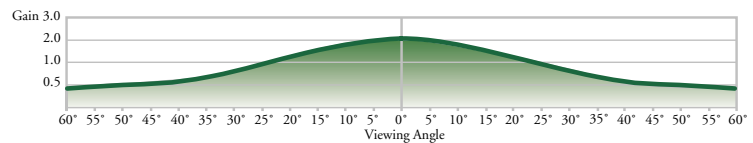


Photo courtesy of Ceavco Audio Visual Company

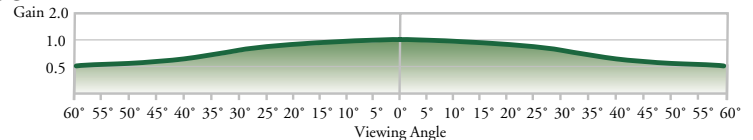
### DiamondScreen



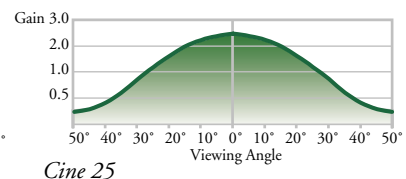
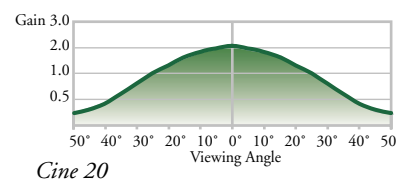
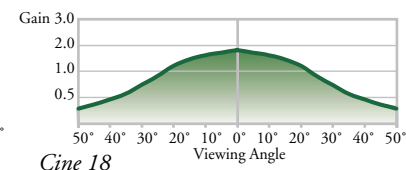
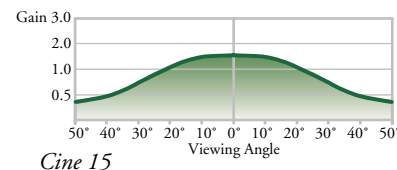
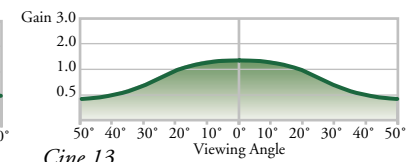
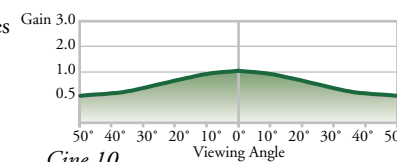
### Vortex



### IRUS



### Cinescreen Optical Coatings



# Cinescreen®

## Optical Coatings and Tints Only From Draper

DRAPER CINESCREENS differ from any other rigid rear projection screens in two *extremely important* respects:

- CINESCREEN optical coatings have been formulated to provide *inherent* abrasion resistance. No other manufacturer offers you this protection.
- Only DRAPER offers you a choice of six different optical coatings, each of which is available in your choice of three unique optical tints. With a DRAPER CINESCREEN, you can select the *optimum combination* of optical coating and tint based upon your projection equipment, audience seating pattern, desired contrast level, screen aspect ratio, ambient light level and aesthetic considerations. *Only Draper offers you this versatility.*

### Planning Checklist

When specifying or ordering a CINESCREEN, we need to know the following:

- Dimensions
- Substrate
- Thickness
- Optical coating
- Tint
- ARMORKOTE or NONGLARE, if required
- Factory-installed framing—system number and finish, if required

### Substrates

DRAPER uses the finest plate glass and clear acrylic as CINESCREEN substrates. Optical qualities are very similar: today's acrylics have been improved and exhibit excellent transmission. However, plate glass is still clearer. Here are some other distinguishing characteristics—

- **Cineglass®**—Recommended for maximum sound isolation, scratch resistance, and service life. Weighs approximately twice as much as acrylic, breaks more easily, must be installed by a glazier. Recommended for applications with multiple projection on one large screen.
- **Cineplex®**—Lightweight, durable and break resistant. Easier to install. Requires more care in cleaning, as acrylic scratches more easily than glass. Less soundproof than glass.

### Optical Coatings

CINESCREENS may be furnished with your choice of six optical coatings:

- **Cine 10**—Ultra-wide angle coating for maximum center-to-corner uniformity of projected image: gain 1.0. Suitable for high output projectors.
- **Cine 13**—Gain of 1.3, with extremely broad viewing cone and uniform distribution of projected light. For all formats, including higher-luminance projectors.
- **Cine 15**—Benchmark wide-angle coating. Gain of 1.5, with uniform distribution of projected light. For all formats, including higher-luminance projectors.
- **Cine 18<sup>1</sup>**—For medium to wide-angle viewing, with on-axis gain of 1.8. Suitable for all projection formats, including video.
- **Cine 20<sup>1</sup>**—Peak gain 2.0, with a somewhat broader viewing cone than CINE 25. Suitable for relatively high ambient light conditions. For all projection formats, including data, graphics and video.
- **Cine 25<sup>1</sup>**—Suitable for narrow viewing cones and lower output projection formats. On-axis gain of 2.5. Good image resolution, color reproduction.

<sup>1</sup> Only suitable for use with projectors having a long throw-distance lens.

### Installation

DRAPER CINESCREENS may be framed at the job site or shipped with a factory-installed CINEFRAME® (detailed on page 55). CINESCREENS are usually installed with the coated side facing the audience. The coated side may be installed toward the projector when there are concerns about abuse, with only a slight reduction in image quality.

\* Larger Cinescreen sizes available by quotation.



A 9' x 12' Cinescreen installed at the Univ. of Texas, School of Engineering and Computer Science, Dallas. Installation by and photo courtesy of SPL Integrated Solutions.

### Optical Tints

The optical tint is an important modifier of the optical coating. Tint influences image contrast and color value. All six optical coatings are available in 3 optical tints (NG, HC, W), to allow the specifier to select the optimum combination of brightness, viewing angle and contrast level for the planned installation.

- **HC—High Contrast** (e.g. CINE 13HC)—Dark grey tint. Exceptional contrast and color rendition. Excellent light dispersion properties. Enhances legibility of computer generated data displays with light or bright text against a dark background: dark colors and black are reproduced with remarkable accuracy. HC tint performs equally well with static and moving displays. Not recommended when using a projector having a lens with a throw distance of 1:1 or shorter.
- **NG—Neutral Grey** (e.g. CINE 13NG)—Standard formulation. Medium grey tint. Normal contrast levels and good color rendition. Brightness levels are uniform throughout entire viewing cone. Suitable for all projection formats and images.
- **W—White** (e.g. CINE 13W)—Neutral white tint. Low contrast levels with some loss in color rendition. Enhances rear screen's ability to reflect a laser pointer beam. Not recommended for computer graphic/data displays. Requires lower light level in audience area.

Be sure to specify NG, HC, or W along with the required optical and protective coatings.

### Optional Coatings

- **ARMORKOTE®**—While DRAPER's optical coatings are inherently abrasion resistant, further insure your CINESCREEN against damage by adding ARMORKOTE treatment. Highly resistant to solvents, abrasion and normal impacts of fingernails, pointers, pencils and pens. While ARMORKOTE will be damaged by repeated or willful abuse through impacts of sharp objects, use as a writing surface, etc., it is an excellent "insurance policy" against accident and error.
- **NONGLARE**—Applied to front or viewing side of the screen for anti-reflective properties. Slightly diminishes resolution. Recommended when using certain mirror systems and/or if optical coating is being installed toward the projector. Ask for more details.

	Maximum Size*	Recommended Maximum*	Approx. Unframed Wt. (lbs. per sq. ft.)	
<b>Cineglass®</b>	H x W	H x W	Net	Shipping
¼" glass	72" x 96"	72" x 96"	3.5	8.5
⅜" glass	120" x 204"	90" x 120"	5	10.5
½" glass	120" x 204"	120" x 160"	7	12.5
<b>Cineplex®</b>	H x W	H x W	Net	Shipping
¼" acrylic	100" x 150"	72" x 96"	1.5	6.5
⅜" acrylic	108" x 240"	90" x 120"	2.5	7.5
½" acrylic	108" x 240"	108" x 144"	3.5	8.5

# DiamondScreen™

*The brightest rear projection screen in the world.*

DIAMONDSCREEN™—the first rear projection screen designed specifically for video and data projection. Unlike conventional rear screens, the DIAMONDSCREEN is cast (molded) and derives its incredible optical performance from its patented Fresnel/lenticular lens system. Well suited for most A/V applications except those with large vertical viewing cones.

The DIAMONDSCREEN offers—

- The world's most sophisticated, efficient rear projection screen
- A panoramic 180° horizontal viewing cone, and the largest vertical viewing cone of any product of its type
- Grey optical tint, for superior color contrast
- Anti-reflective properties for superior performance even under conditions of high ambient light
- Superior corner-to-center brightness ratio, with no "hot spots"
- 3.5 gain on axis
- The largest sizes and widest range of sizes in the industry

DIAMONDSCREEN is available in sizes through 200" diagonal NTSC Video format.



*DiamondScreen installation at Intermedia/Worldcom. Dealer: Audio Visual Innovations. Photography: © 2001 Chroma Inc. All located in Tampa, Florida.*

# DiamondScreen HC

NEW: DIAMONDSCREEN HC now available by quotation. This low-gain, high-contrast version of the DIAMONDSCREEN is for use with the very brightest projectors. Gain of 1.5.

# Vortex

*Combining the best of optical and diffusion rear screen technology.*

The VORTEX is a marriage of the best features of two rear screen technologies—optical and diffusion. Originally introduced for use in VIDEO WALLS, it is an excellent choice for most single screen applications.

A 0.5 mm Fresnel lens gathers the light from the projector and directs it at a right angle through the screen. As the light exits the screen on the audience side, a diffusion medium redistributes the light evenly in all directions—up, down, left, right and center. The result is an extraordinary projected image with—

- Superior resolution and superb color contrast
- An exceptionally wide viewing cone in both the horizontal and vertical axes
- Extraordinary center-to-corner brightness ratio
- Uniform brightness without hot spots

The unique features of the VORTEX provide important advantages and benefits—

- The Vortex is designed for use with single lens projectors
- Projected light is collimated, then diffused evenly, making the Vortex well suited for use in videowalls and rooms with tiered seating patterns
- Charcoal grey tint provides superior color contrast even under harsh ambient light
- The diffusion medium is in the acrylic, so the diffusion medium can't be scratched or damaged

The VORTEX is available in sizes through 160" diagonal NTSC Video format.

When framing a single screen, select DRAPER'S SYSTEM 100, 200 or 400. See details on page 55. For multiple screens or VIDEO WALL applications, our ZERO EDGE, CLEAR LEXAN or SYSTEM 200 VIDEO WALL FRAMING SYSTEMS are compatible.

## DiamondScreen and Vortex

Nominal Diagonal	Image Area* H x W	Overall Size	Net Wt. (lbs.)
<i>NTSC Format (4:3)</i>			
60"	36" x 48"	37" x 49"	16
67"	40¼" x 53⅝"	41¼" x 54⅝"	18
72"	43¼" x 57⅝"	44¼" x 58⅝"	20
84"	50½" x 67¼"	51½" x 68¼"	27
90"	54" x 72"	55" x 73"	31
96"	57⅝" x 76⅝"	58⅝" x 77⅝"	44
100"	60" x 80"	61" x 81"	46
120"	72" x 96"	73" x 97"	66
125"	74¾" x 99¾"	75¾" x 100¾"	71
140" <sup>1</sup>	84¾" x 112¾"	86¾" x 114¾"	128
150" <sup>1</sup>	90¾" x 120¾"	92¾" x 122¾"	146
160" <sup>1</sup>	96¾" x 128¾"	98¾" x 130¾"	165
170" <sup>2</sup>	101¾" x 135¾"	103¼" x 137¼"	238
180" <sup>2</sup>	107¾" x 143¾"	109¼" x 145¼"	244
190" <sup>2</sup>	113¾" x 151¾"	115¼" x 153¼"	263
200" <sup>2</sup>	118½" x 158½"	120" x 160"	269
<i>HDTV Format (16:9)</i>			
92"	45" x 80"	46" x 81"	31
106"	52" x 92"	53" x 93"	52
119"	58" x 104"	59" x 105"	71
133" <sup>1</sup>	65" x 116"	66" x 117"	83
161" <sup>2</sup>	80" x 140"	81" x 141"	150

\* Image area listed is typical and choice of framing may cause a variation.

<sup>1</sup> For safety reasons, DRAPER recommends that these DIAMONDSCREENS ship with a factory installed SYSTEM 200 or SYSTEM 400 frame.

<sup>2</sup> These larger sizes are only available in DIAMONDSCREEN and require LARGE SCREEN SYSTEM FRAME (not factory installed) or SYSTEM 400 frame.

# IRUS—Infinite Resolution Uniformity Screen

## When legibility is the key.

The DRAPER IRUS—INFINITE RESOLUTION UNIFORMITY SCREEN—is specifically designed to provide maximum legibility with any projector. Today's projectors offer a higher resolution than ever before—and that means more information for your audience to absorb. With these projectors, you need a screen that's up to the challenge.

In order to convey an increasing amount of information to the viewer, the IRUS uses proprietary technology to display the sharpest, most uniform image you've ever seen. An improvement for every rear screen application, the IRUS actually provides higher resolution than the human eye can perceive. The image is so consistent that it can be clearly seen even at 90° off axis (although most subject matter would be extremely distorted from this perspective). Brightness is consistent from center to corner. The IRUS provides excellent contrast, even in lighted rooms, with superior color reproduction.

The IRUS offers—

- Uniform resolution compatibility
- Uniform center-to-corner brightness
- Superior color reproduction
- Excellent contrast
- Unique antiglare finish on ¼" acrylic substrate
- 1.0 gain across a 180° viewing cone
- Sizes up to 120" diagonal
- Ideal for high resolution displays

*Projector and choice of lens will play a role in selecting the best rear screen for the application. Let Draper help you make the screen selection once you've chosen the projector and lens.*

Nominal Diagonal	Image Area* H x W	Overall Size	Net Wt. (lbs.)
<b>NTSC Format (4:3)</b>			
60"	36" x 48"	37" x 49"	16
67"	40¼" x 53⅝"	41¼" x 54⅝"	18
72"	43¼" x 57⅝"	44¼" x 58⅝"	20
84"	50½" x 67¼"	51½" x 68¼"	27
90"	54" x 72"	55" x 73"	31
96"	57⅝" x 76⅞"	58⅝" x 77⅞"	44
100"	60" x 80"	61" x 81"	46
120"	72" x 96"	73" x 97"	66
<b>HDTV Format (16:9)</b>			
92"	45" x 80"	46" x 81"	31
106"	52" x 92"	53" x 93"	52

## Installation

When framing a single screen, select DRAPER'S SYSTEM 100, 200 or 400 framing systems (see page 55).

For multiple screens or VIDEO WALL applications, our ZERO EDGE, CLEAR LEXAN or SYSTEM 200 VIDEO WALL FRAMING SYSTEMS are compatible (see page 64).

# HoloView

## Transparent rear screen.

The HOLOVIEW rear screen stops prospective customers in their tracks. Grab the spotlight at trade shows, in showrooms, shopping malls and any retail environment. Cast a dramatic visual image in museums, banks, entertainment venues—anywhere you need to catch your audience's eye.

A HOLOVIEW screen consists of transparent ¼" acrylic. See a clear image—and see through the screen—at the same time. For the most dramatic visual images, the HOLOVIEW should be suspended from wires or cables so the projected image appears to be floating in space. Aluminum grip strips are provided at top and bottom for this purpose.

Compatible with any single lens projector with digital keystone correction. Projector should be placed above or below the plane of the screen. Ideal for lobbies or other retail areas. All sizes are single element, without seams or visible lens pattern.

## System Options

- Aluminum grip strips standard at top and bottom. *Optional:* Strips along the sides or without strips altogether.
- Standard screen orientation is horizontal (landscape). May also be hung vertically (portrait position).
- Typical installation is free hanging. In-wall installation also possible, using SYSTEM 100 or 200 CINEFRAME (see page 55).

## HoloView

Nominal Diagonal	Image Area <sup>1</sup> H x W	Overall Size <sup>2</sup>	Net Wt. (lbs.)
<b>NTSC Format (4:3)</b>			
40"	20½" x 33¾"	23⅝" x 33¾"	9
46"	24⅝" x 38⅝"	27¾" x 38⅝"	10
50"	26⅞" x 42⅝"	30" x 42⅝"	11
60"	33⅝" x 50⅝"	36¼" x 50⅝"	15
67"	37⅝" x 55⅝"	40½" x 55⅝"	19
72"	40⅞" x 60"	43¼" x 60"	21
84"	47¼" x 69¾"	50⅝" x 69¾"	29
90" <sup>3</sup>	50⅞" x 74⅝"	54" x 74⅝"	33
96" <sup>3</sup>	53⅝" x 80"	56¾" x 80"	37
100" <sup>3</sup>	56⅝" x 84¼"	59½" x 84¼"	41
110" <sup>3</sup>	60½" x 92⅝"	63⅝" x 92⅝"	45
120" <sup>3</sup>	66⅞" x 100⅞"	70" x 100⅞"	49

<sup>1</sup> With aluminum grip strips at top and bottom of screen. Grip strips also available on left and right sides through 84" diagonal.

<sup>2</sup> Aluminum grip strips will add ⅛" to relevant dimension.

<sup>3</sup> LARGE SCREEN MOUNTING FRAME at top and bottom of screen. DRAPER recommends framing 90" diagonal screens and larger to prevent bowing.



Typical HoloView Installation Method



HoloView at Bumble & Bumble, design and installation by Glenn Polly, Videosonic, and Photography © 2005 Bruce Katz. All of New York City.

# Draper RPX— Rear Projection System

*Takes the guesswork out of rear screen system design.*

DRAPER designed the REAR PROJECTION SYSTEM (RPX) to provide perfect rear screen picture quality, while saving valuable floor space. The RPX folds the light from a video, data-graphics, LCD, DLP, CRT, digital or slide projector using the finest optical quality, first surface glass mirror.

RPX consists of a custom designed projector cradle, a 94% reflective first surface mirror and a unitized framework of blue extruded aluminum. The framework positions the projector and mirror in precisely the right relationship to each other and to the rear screen.

The customized projector cradle allows for *both tilt-axis adjustment and micro-fine height adjustment—without tools*—to position the image on the rear screen.

The real beauty of the RPX is that it is built specifically for your unique requirement. You provide us with the make and model of projector, desired screen size, and a few simple room dimensions. Our designers evaluate the optics and determine the proper light path geometry. RPX is preset for a perfect fit. If the room dimensions or projector specifications change, RPX can be adjusted during installation. Mirror height and angle, projector height and position (front to back) are all adjustable. The RPX ships complete with all required fasteners and hand tools.

Four models to choose from—

- RPX—as described above.
- RPX/COMPLETE—an RPX plus a framed rear screen attached to the RPX for a perfectly aligned system (described on page 61).
- RPX PRECISION—an RPX plus a precise ALIGNMENT PLATFORM (described on page 61) for fine tuning critical adjustments such as found with videowalls or joined screen applications.
- RPX/LITE—for projectors weighing less than 50 lbs (described on page 61).

## *Exclusive Features for Adjustability.*

*Mirror Pivot Plate makes mounting the mirror much easier*

The addition of shoulder bolts means the mirror can simply be lifted into position and stabilized at the proper angle while a second bolt is installed. After installation, adjusting the height or angle of the mirror is easy with the calibrated plate and predrilled adjustment holes.

*Cradle Pivot Plate and Height Adjustment*

With the new calibrated pivot plate, micro-fine finger adjustment of tilt angle and height, and cradle-to-mirror distance adjustment, resetting the RPX in the field is simple. You may even be able to adjust for a new projector.

*Draper's 6-Axis Adjustable Platform*

Standard with the RPX and RPX/COMPLETE units. The platform allows all movement to be modified for best image alignment. The projected light path can be adjusted in all 6 axes for a perfect picture every time. (Not available for projectors over 45 lbs.)

*Reinforced Mirrors*

Visit our web site for details of this exclusive feature, plus submittals and specifications of all our RPX Systems: draperinc.com.



*RPX features metallic blue aluminum extrusions. This unit pictured illustrates the standard RPX configuration.*



## Mirror Manager

*No more lost pixels.*

You may know how tough it can be to make those final tweaks so the projector will put a perfectly square image on the rear projection screen. Lining up all the images in a control center videowall may be the work of several days. MIRROR MANAGER is DRAPER'S innovative solution to that problem.

The MIRROR MANAGER may be used as part of a DRAPER REAR PROJECTION SYSTEM, RETRO, MULTISCREEN SYSTEM or anywhere a DRAPER first surface mirror is installed. With MIRROR MANAGER, the final image adjustments are quick and easy. After you have adjusted all the larger controls (the projector, its platform and mirror position) then MIRROR MANAGER goes to work. Using its hand-operated knobs, you can quickly fine-tune the image to eliminate pincushioning, barrel distortion and just to square up the corners. The mirror remains securely mounted in a black anodized extruded aluminum frame.

*Mirror Manager saves installation time and money, and improves the image by actually bending the mirror in tiny, highly controlled increments.*

*Use eight knobs around the perimeter to make the precise adjustment you need. Mirror Manager should be used only for those minor tweaks that look so easy and take so long without it.*



# RPX/Complete

The DRAPER RPX/COMPLETE has all the features of the RPX *plus* a framed rear screen attached to the structural uprights. Choice of an IRUS, VORTEX, CINESCREEN or DIAMONDScreen in a SYSTEM 400 frame attached to the RPX for a perfectly aligned system. Screen sizes through 6' high x 8' wide. The advantages of an RPX/COMPLETE are staggering:

- Framed screen “floats” in your wall opening. The wall does not bear the weight of the screen, so no finishing or reinforcement of the opening is required. Cut a rough opening and set up the system.
- Since the wall’s expansion/contraction properties do not put pressure on the screen, the result is a consistently flatter screen.
- Each element in the system is locked into its proper relationship, square with the others: screen-to-projector platform; projector platform-to-mirror; mirror-to-screen.
- Save installation time. Assemble the system, adjust the leveling feet on the base of the RPX and the entire system is level.
- Since the screen is automatically square with the mirror, installation of projector and alignment of image is made easier.



# RPX/Precision

The DRAPER RPX/PRECISION offers the world’s most precise image alignment capabilities in a custom-built rear projection system. Why is that so important?

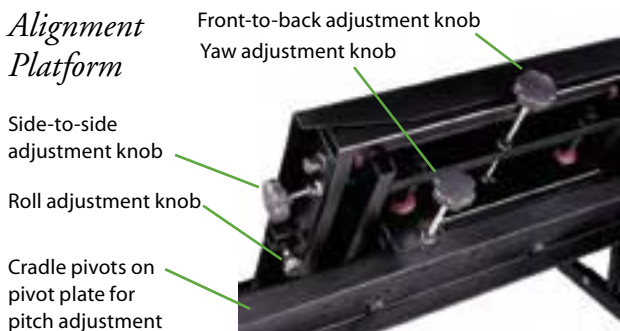
Today’s digital projectors often allow little or no electronic image position adjustment. Therefore, precise physical positioning of the projector becomes critical in aligning and edge matching side-by-side images, and even in precisely locating a single projected image.

With incredible accuracy, the fine tuning capabilities of the DRAPER RPX/PRECISION ALIGNMENT PLATFORM gives you isolated adjustment of each individual projector in all six axes: height, front-to-back position, side-to-side position, pitch, roll and yaw.

DRAPER’s unique ALIGNMENT PLATFORM will allow single lens projectors, which have no internal or electronic adjustments, to adjust horizontal keystone, image size, image shift and image rotation.

ALIGNMENT PLATFORM is also available in a lightweight version for today’s smaller projectors.

## Alignment Platform



*The RPX/Precision with Alignment Platform can be adjusted in all six axes. Also available with Projector Support Structure and MultiScreen System. See page 63.*



# RPX/Lite

The DRAPER RPX/LITE is an economical mirror system designed for use with lighter weight LCD and DLP projectors. Any projector weighing less than 50 pounds is suitable for the RPX/LITE. This mirror system is lighter in overall weight but maintains the same high quality workmanship and superior components as our RPX/PRECISION systems. Stability, rigidity and precise engineering are not compromised on the RPX/LITE—its limited use is for price conscious applications.

The RPX/LITE incorporates many of the features that make DRAPER units the finest in both engineering and execution: DRAPER standard size, first-surface optical-grade glass mirror; alignment holes on pivot plates of both the mirror and projector shelf for quick, precise placement; heavy-duty leveling feet and predrilled anchor points; easy to follow assembly instructions. Includes the hand tools needed for assembly.



# First Surface Mirrors

*Sold separately, or with rear screen systems.*

DRAPER provides optical grade first surface mirrors for improved rear projection image quality. First surface mirrors are frequently used in rear projection systems design to fold the light from the projector, reducing the required depth of the projection area behind the rear screen. Conventional mirrors are not satisfactory for this purpose, because the reflective coating is on the back side of the glass. Under projection, the majority of light would be reflected by the reflective coating and a minority by the first surface of the mirror, resulting in an objectionable double image.

DRAPER first surface mirrors consist of a 94% reflective optical grade vacuum coating on a 6 mm thick glass substrate. We offer first surface mirrors in nine standard sizes ranging from 25" x 40" through 74" x 100", or in any custom size of your choice. Mirrors are available with or without a factory installed protective frame.

First surface mirrors are also provided with DRAPER RPX, RETRO/QA, MULTI-SCREEN SYSTEMS and PROJECTOR SUPPORT STRUCTURES, all designed specifically for your projection requirement (see page 60-63).

DRAPER also offers a unique and highly effective stiffening system for mirrors 48" x 74" and larger. This system ensures flatness and eliminates the pin cushion effect, double imaging and dead spots, resulting in a significantly improved image.



*Projection room at Michigan Virtual University, Lansing. Installation by AXXIS Incorporated.*

### Standard Mirror Sizes

Mirror Size (H x W)	Mirror Size (H x W)
25" x 40"	48" x 60"
30" x 40"	48" x 74"
43" x 50"	60" x 90"
43" x 60"	74" x 100"
43" x 74"	

*Larger and cut down sizes available.*

*No More lost pixels. See Mirror Manager details on page 60.*

## MiroClear

### Mirror Cleaning Kit

First surface mirrors are delicate and they attract dust, lint and fingerprints. We recommend you use our Mirror Cleaning Kit. It contains cleaning solution, cotton gloves, lint-free cloth and instructions.



## Retro/QA

*Retrofit any room with rear projection.*

We custom design and build the RETRO/QA based on your choice of projector and screen. Select any projector and any screen size through 125" diagonal.

The RETRO/QA is a portable, self-contained rear projection system. Disassembles for transport or storage. All components fit through a standard door. Assembles easily and quickly on site. Includes the DRAPER IRUS, CINEPLEX, VORTEX or DIAMONDSCREEN with a 3/8" low profile frame of black anodized aluminum or clear matt Lexan.

The RETRO/QA features the same high quality projector cradle and first surface mirror assembly as other DRAPER INFORMATION DISPLAY SYSTEMS products. Also available: ALIGNMENT PLATFORM, ZERO EDGE framing, 3" urethane swivel casters, 4-outlet surge protected power strip and cooling fan. Multiple units will abut to form a portable videowall. May be finished in your choice of laminates or veneers.

Screen Size (diagonal)	Overall Size* H x W x D	Distance From Bottom of Screen to Floor
60"	92½" x 48" x 48"	56½"
67"	92½" x 54¼" x 50"	50½"
72"	92½" x 58⅞" x 56"	48"
84"	102½" x 68½" x 60"	50¾"
90"	106½" x 74¼" x 64"	50¾"
96"	110½" x 79" x 68"	50⅝"
100"	112½" x 82¼" x 73½"	50¼"
120"	116½" x 98¼" x 96"	42¼"

\* Above dimensions are typical, and will vary for certain projectors. If in doubt, contact DRAPER for exact dimensions.



*Memphis, TN, Welcome Center. Photography by Michael J. Dougherty.*

# Video Conferencing Camera Box

DRAPER'S VIDEOCONFERENCING CAMERA BOX recesses a camera in the wall, behind a hinged tempered glass door. The glass is tilted slightly forward to minimize glare. Makes installing a videoconferencing camera quick and easy. Installer simply cuts the desired opening in the wall, inserts the five-sided steel enclosure and engages the "quick clamps". No additional hardware or brackets are required. There's no finishing either: the box has a bezel that trims the rough opening. All visible surfaces are finished with black epoxy powder coat. Suitable for use with thin panels or gypsum board wall openings. Size is 8<sup>7</sup>/<sub>8</sub>" high x 16<sup>3</sup>/<sub>8</sub>" wide x 11" deep. Also available in locking version to protect sensitive equipment. Two keys provided.

- Precision formed and punched from 18-gauge, cold-rolled steel.
- Finished inside and out with durable black epoxy powder coat. Front of enclosure features a 7/8" finishing frame bezel that is self-trimming.
- Enclosure features four "knock out" cable exits for wire management.
- Enclosure will mount in any opening. Built-in "quick clamps" can clamp to most walls or panels.
- Glass door is hinged to fold down for easy access to camera.



# PlasmaWall

It's what's behind the DRAPER PLASMAWALL that counts:

- A monitor support structure custom-built of extruded aluminum and steel, that can hold any number and size plasma monitors available in the marketplace.
- Only 2.5 mm separation between each monitor.
- Unique push-and-release mechanism from audience side: push on the plasma to release lock, and pull the monitor forward 12" for adjustment or replacement.
- Cooling systems to meet plasma manufacturer's airflow requirements.

With DRAPER'S PLASMAWALL, no rear access is necessary. Once installed, each monitor can be manually adjusted for proper fit to the support structure, and individually accessed for quick repairs or adjustments. Preliminary drawings are available at no extra charge, and custom trim finishes are available. Designs and support structures can accommodate LCD monitors. DRAPER also builds custom racks to hold processors.



The 4 x 4 PlasmaWall installation (above) is located in the lobby of Lehigh Valley Hospital—Muhlenberg, Bethlehem, PA. Installation by Vistacom, Inc., Allentown, PA. A/V Consultant: Multi Media Solutions, Inc., Alcoa, TN. Architects: VSBA, Philadelphia, and Freeman White, Charlotte, NC. Photography: Matt Wargo for VSBA.

# MultiScreen System

The DRAPER MULTISCREEN SYSTEM is a unitized, self-supporting rear screen/projector cradle/first surface mirror system designed for control center and other videowall installations. Each unit consists of 2 or more rear screens, cradles and mirrors, all positioned in the exact required relationship to each other and to the audience. A projector access panel is located at the bottom, and is equipped for easy removal without tools.

- Designed and custom built to your specific requirements.
- Totally unitized and designed to conserve floor space.
- Available 2, 3, or 4 screens high, with upper screens tilted as necessary.
- Alignment Platform available for precise positioning of projectors.
- Choice of rear screen: IRUS, Vortex, Cinescreens or DiamondScreens.
- Choice of screen frames: Zero Edge (optically seamless) or transparent Clear Lexan®.
- Screen sizes from 30" through 135" diagonal.

# Projector Support Structures

When building a custom videowall system, video and data graphics projectors must be safely and securely mounted at the proper focal distance from the screen. DRAPER'S SOPHISTICATED PROJECTOR SUPPORT STRUCTURES are designed and built to your specific requirement. Projectors will be positioned in the exact required relationship to a multiple screen videowall.

- Custom-fitted projector cradles
- Machined aluminum pivot plates for quick alignment
- Unitized welded tubular steel framework
- Optional Alignment Platform for precise positioning of projectors
- Available in any grid configuration, in either straight throw or mirrored design.
- Mirrors, if required, are 94% reflective optical grade first surface glass. (Page 62.)

# Custom Video Wall Framing Systems

## Essential to our superior Video Wall design.

Multiple rear screen VIDEO WALLS are used in command and control rooms, network operations centers, sports and gaming venues, point of purchase advertising and the entertainment industry. Since 1985, DRAPER has developed a particular expertise in the design and manufacture of custom rear screen VIDEO WALLS and related products for electronic information display. With installations in more than 70 countries, DRAPER is the acknowledged world leader in the most demanding area of the projection screen industry.

With more unique types of rear projection screens, videowall framing systems, and projector mounting systems, and more combined years of design experience than any other projection screen manufacturer, DRAPER's highly skilled engineers can provide an optimum solution for any information display requirement. Both technological and human factors are always carefully considered. All proposals are supported by CAD-generated dimensional drawings.

The VORTEX, HIGH CONTRAST BLACK, DIAMONDSCREEN and DIAMONDSCREEN HC should be used in VIDEO WALL applications, with individual screen sizes from 30" diagonal through 180" diagonal. IRUS and CINESCREEN may be used, however they will not have the optimum uniformity usually necessary for a VIDEO WALL application.

DRAPER offers three VIDEO WALL framing systems—

### Zero Edge Framing System

DRAPER's mullionless ZERO EDGE FRAMING SYSTEM is the first and only optically seamless large screen videowall framing system. ZERO EDGE incorporates a proprietary screen attachment system supported by extruded aluminum light baffles on all four sides. Screens are assembled with "zero" separation. Actual screen separation is approximately .5 mm.

ZERO EDGE VIDEO WALL modules may be installed in-wall or can be incorporated in a freestanding DRAPER MULTISCREEN SYSTEM. Panoramic or tilted VIDEO WALLS are possible in any configuration. Individual modules are completely self-supporting, reducing the possibility of screen warpage.

U.S. Patent No. 6,000,668.

### Close Edge Clear Lexan® Framing System

Individually framed screen modules with a "close-edge" transparent Lexan perimeter support frame, for a near-seamless appearance. Actual screen separation is approximately 4 mm. Screen modules include an extruded aluminum light baffle on all four sides. These modules are assembled within an existing rough opening. Panoramic or tilted VIDEO WALLS are possible with CLEAR LEXAN frames.

U.S. Patent No. 6,296,214.

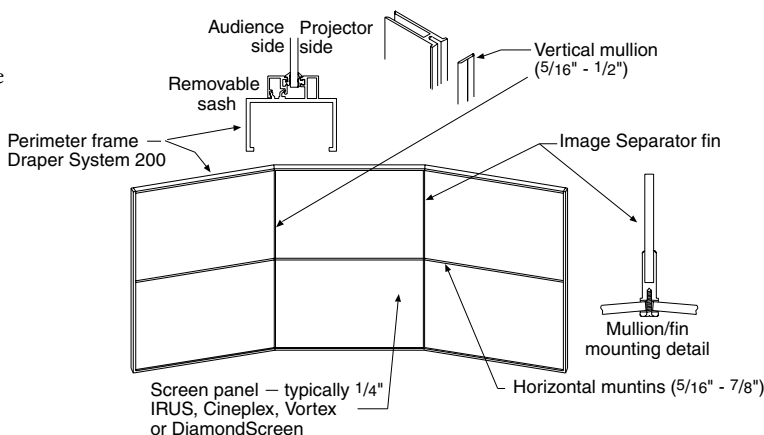
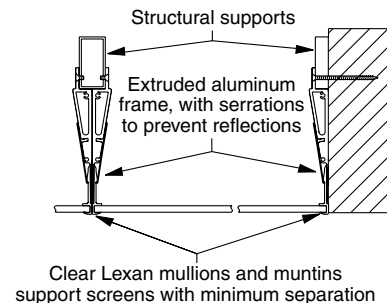
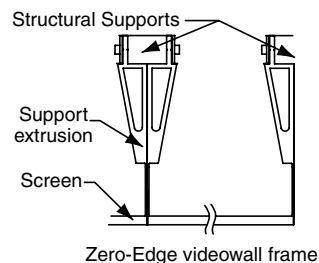
### System 200 Video Wall Framing System

Offers maximum flexibility of design and structural integrity while accommodating rear screens of any size. Completely unitized for perfectly uniform contiguous images regardless of the number of screens or tiers in the array. The manufacturing and assembly of complex panorama radius VIDEO WALLS is executed with precision and unparalleled structural integrity.

A patented two-piece image separator system, consisting of vertical mullions and horizontal muntins, enables removal of individual screens within the videowall without disturbing the rest of the system. Light separating baffles eliminate overscan between adjacent projected images. All SYSTEM 200 components are extruded aluminum with black anodized finish. Every component is stamped and coded, and detailed assembly instructions and legend are provided. U.S. Patent No. 5,103,339.



Caltrans, Irvine, CA.—Transportation Management Center. Installed by MCSi. A 3 x 3 MultiScreen System of IRUS screens in Zero Edge frames. Includes custom monitor arrays.



# Draper Easels

## *For effective visual presentations.*

Quality easels from one of America's oldest and largest manufacturers of visual communication products. DRAPER EASELS stand rock-solid on wobble-proof legs, fold easily for transport or storage. Numerous exclusive features insure effective, trouble-free visual presentations time after time.

DRAPER offers the largest selection of paper pad, dry-erase, poster and decorative display easels in the world. From heavy-duty models to decorative poster units, DRAPER offers easels for every situation. Careful attention to quality, function and appearance, plus an expanded range of decorative finishes, make DRAPER the world's premier line of professional easels.

In paper pad and writing surface easels, DRAPER offers two separate standards—DR SERIES and OP SERIES. Both are carefully assembled of high quality components with all-riveted construction.

### *DR Series*

Constructed entirely of the highest quality structural grade aluminum alloy. Exclusive features such as a spring-loaded paper pad clamp, ball detent leg locks, hinged pen tray/chart shelf, hinged chart holders and a hinged storage compartment for writing instruments make DRAPER DR SERIES EASELS the preferred choice of professional presenters.

### *OP Series*

OP SERIES EASELS use many of the same high quality components as the DR SERIES, and feature a spring-loaded paper pad clamp and ball detent leg locks. These have a trim, fixed pen tray and do not have hinged chart holders or a storage compartment. OP SERIES EASELS feature a rugged, magnetic steel backboard.

## *Quality, Function and Appearance*



### *Spring-Loaded Paper Clamp*

Paper pad attaches instantly to studs concealed under spring-loaded clamp. Pad is held securely in place—no moving parts to get lost.



### *Accessory Storage Box*

Writing instruments are safely stored in the built-in storage compartment on all DRAPER DR SERIES EASELS. Latch releases at the touch of a lever.



### *Ball Detent Leg Locks*

Rugged ball detent hinge assembly automatically locks legs in place, releases at the touch of a finger. No exposed parts to bend or break.



### *Rubber Leg Tips*

Rubber leg tips keep your easel firmly in place on any floor—won't "walk" when you write.



### *Hinged Pen Tray*

Hinged tray holds markers, eraser and charts. Folds flat for transport or storage. Standard on DR SERIES EASELS. No protruding parts to break or to damage other equipment.



### *Fixed Pen Tray*

Narrow profile for transport or storage, yet large enough for markers, pointer, eraser or charts. Made of heavy-gauge steel. Standard on OP SERIES EASELS.



### *Hinged Chart Holders*

Aluminum arms fold down to support a hefty 80 lbs. of posters or charts. Arms fold flat when not in use. Standard on DR SERIES EASELS.



Gold Anodized



Grey Epoxy Powdercoat



Silver Anodized



Black Epoxy Powdercoat

### *Finishes*

These finishes are available for many of the products in our EASEL line.



# Paper Pad Easels

## DR Series/OP Series

**DR400/OP400—Grey Epoxy Powder Coat**    **DR500—Silver Anodized**

**DR450/OP450—Black Epoxy Powder Coat**    **DR500—Gold Anodized**

Quality, durable PAPER PAD EASELS available in two series: DR and OP. Both offer a 28" x 38" panel to accommodate all standard easel paper pads. Folds from 70" height to a compact 28" x 38" x 2". Finished in tough epoxy powder coat or attractive brushed anodized aluminum.

The exclusive features of the all-aluminum DR SERIES are depicted on page 65. Hinged chart holders and pen tray/chart shelf allow for poster presentations at different heights.

The OP SERIES features spring-loaded paper clamp, ball detent leg locks and rubber leg tips. The backboard for OP SERIES easels is rugged magnetic steel. Fixed pen tray is standard. Chart holders and storage box not included.

Model	Net Wt. (lbs.)	Model	Net Wt. (lbs.)
<i>DR Series Paper Pad Easels</i>		<i>DR Series Writing Surface Easels</i>	
DR400	12	DR800	21
DR450	12	DR850	21
DR500	12	DR650	13
DR550	12		
<i>OP Series Paper Pad Easels</i>		<i>OP Series Writing Surface Easels</i>	
OP400	15	OP850	21
OP450	15		

All units have the same dimensions when set up: 70" high x 28" wide, and fold to 38" x 28" x 2".

# Writing Surface Easels

## DR Series/OP Series

**DR800—Porcelain Whiteboard/Gold Anodized**

**DR850/OP850—Porcelain Whiteboard/Black Epoxy Powder Coat**

All the quality and convenience of DRAPER DR SERIES PAPER PAD EASELS, plus a built-in white porcelain on steel writing surface. The surface is smooth, framed on all four sides and has no visible fasteners. Use it with a paper pad for prepared presentations or to preserve notes; without paper for impromptu "chalk-talks". Chip-proof porcelain wipes clean instantly, never discolors. Useful for magnetic displays, or as a paper pad or poster easel.

The OP SERIES features include the spring-loaded paper clamp, ball detent leg locks and rubber leg tips. A fixed pen tray is standard. Chart holders and storage box are not included.

**DR650—Powdercoat Whiteboard/Black Epoxy Powder Coat**

Now you can have a lightweight, sturdy all-aluminum powder coat easel, plus a dry erase writing surface! Provides the functionality of the DR850, at a lower cost. Legs, paper clamp and braces are finished in black, while the panel and its rivets are finished in dry erase white. The DR650's dry erase finish will stand up to the toughest use and still wipe clean. All-aluminum construction makes a lighter easel without sacrificing strength.

# Easel Accessories

**PEN1 Paper Pad Pens**—Quality water soluble chisel point marking pens. Set of 24 in black, blue, red and green, or all one color on request.

**POR1 Dry-Erase Porcelain Marking Pens**—Set of 4 includes black, blue, red and green. Ink dries instantly, wipes off porcelain with eraser or dry cloth.

**CLE1 Porcelain Cleaner**—Restores dry erase panel to original factory condition. 8 oz. pump spray bottle.

**ER1 Eraser**—For dry erase surfaces.

**MAG1 Magnets**—Set of 24 colorful button magnets for dry-erase porcelain easel presentations.



## Options and Accessories

- ✓ Vinyl Carrying Case SC30—Fits all models on this page.
- ✓ Paper Pads (box of 4)
- ✓ Paper Pad Marking Pens (set of 24)



## Options and Accessories

- ✓ Paper Pads (box of 4)
- ✓ Paper Pad Marking Pens (set of 24)
- ✓ Dry-Erase Marking Pens (set of 4)
- ✓ Porcelain Cleaner
- ✓ Eraser
- ✓ Magnets (set of 24)



# Heavy-Duty Easels

## Paper Pad Easels

### DR890—A-Frame Easel

DRAPER heavy-duty paper pad easels are the world's toughest. Designed and built to perform time after time—and keep their good looks. Heli-arc welded 1" square tubular aluminum frames and sturdy aluminum backboards.

The DR890 features an A-frame design and a durable satin silver anodized finish. Steel pen tray is fixed in position. Does not include accessory storage box. Entire unit folds flat for storage or transportation.

### DR891—A-Frame With Casters

Identical to the DR890, but with roll-around casters (2 with locks).

### DR895—Folding A-Frame

Like the DR890, but with folding legs. Folds to 6" x 29" x 39" .

## Writing Surface Easels

### DR990—Dry-Erase A-Frame Easel

The DR990 is identical to the DR890, described above, except that the panel and rivet heads are finished in dry-erase white powder coat. Stand up to the demands of the hotel and rental market.

### DR995—Dry-Erase Folding A-Frame Easel

Like the DR990, but with folding legs. Folds to 6" x 29" x 39" .

Model	Height(Set Up)	Dimensions(Folded)	Net Wt. (lbs.)
DR890	72"	4" x 29" x 72"	19
DR891	75"	4" x 29" x 75"	21
DR895	72"	6" x 29" x 39"	20
DR990	72"	4" x 29" x 72"	19
DR995	72"	6" x 29" x 39"	20

# Poster Easels

## Folding Aluminum Poster Easels

### DR250—6' Gold Anodized • DR270—6' Black Powder Coat

Lightweight yet rugged tripod easel can be used for posters or paper pads. Weighs only 7 pounds. Hinged chart holders are attached to sturdy aluminum legs at four different heights for poster display. Spring-Loaded Chart Clamp (standard) attaches without tools, accommodates standard easel paper pads. Folds easily to 41" x 5¼" x 2" .

## Non-Folding Aluminum Poster Easels

### DR200—5' Gold Anodized • DR220—6' Gold Anodized

### DR205—5' Black Powder Coat • DR225—6' Black Powder Coat

Sturdy tripod style easels. Hinged chart holders are riveted to sturdy aluminum legs at three different heights for poster display. These easels weigh 5 pounds or less, and flatten in one quick motion to 60" or 72" x 5¼" x 2" for storage.

## Decorative Poster Easels

### DR150—Brass Easel

Make an impression in hotel and restaurant lobbies, art galleries, museums, theatres—even shopping malls. Solid brass easel is fully lacquered to prevent tarnishing. Just under 5' tall, the DR150 enhances any setting.

### DR160—Black Hardwood/Brass Easel

Similar to the DR150 in styling, the DR160 has a frame of fine-grained hard maple finished in black lacquer. Decorative brass accents are lacquer-coated.

### DR170—Stained Hardwood/Brass Easel

A solid oak frame available in five finishes. The elegant brass accents are lacquer-coated.

#### DR170 Finishes

Light Medium  
Oak Oak Walnut Cherry Mahogany



Note: Finishes are reproduced as accurately as possible within the limitation of the printing process.



DR990 and DR895

## Options and Accessories

- ✓ Vinyl Carrying Case SC30—Fits DR895 and DR995
- ✓ Paper Pads (box of 4)
- ✓ Paper Pad Marking Pens (set of 24)
- ✓ Dry-Erase Marking Pens (set of 4)
- ✓ Porcelain Cleaner
- ✓ Eraser
- ✓ Magnets (set of 24)



DR150, DR250 and DR205

## Options and Accessories

### for Aluminum Poster Easels

- ✓ Vinyl Carrying Case SC20—Fits DR250 and DR270
- ✓ Paper Pads (box of 4)
- ✓ Paper Pad Marking Pens (set of 24)

Model	Height (Set Up)	Dimensions (Folded)	Net Wt. (lbs.)
<i>Aluminum Poster Easels</i>			
DR200	60"	60" x 5¼" x 2"	4
DR205	60"	60" x 5¼" x 2"	4
DR220	72"	72" x 5¼" x 2"	5
DR225	72"	72" x 5¼" x 2"	5
DR250	72"	41" x 5¼" x 2"	6
DR270	72"	41" x 5¼" x 2"	6
<i>Decorative Poster Easels</i>			
DR150	59"		4
DR160	59"		5
DR170	59"		6

# Easel Carrying Cases

Black, PVC-backed 600-denier polyester, zippered carrying case is optional to protect your easel and accessories in storage or transport.

**SC20**—For folding, aluminum POSTER EASELS models DR250 and DR270. Overall length is 44". This narrow bag is 6¾" wide and expands 4½". A zippered pouch on the front is designed to hold the Sprint-Loaded Chart Clamp. Size 37½" long x 5" wide and expands 1¾".

**SC30**—For all DRAPER PAPER PAD, WRITING SURFACE and HEAVY-DUTY FOLDING EASELS. Size 41½" long x 29" tall and 6" wide.

## Easel Paper Pads

Standard 27" x 34" easel paper pads fit all DRAPER easels and most other models. High quality 16 lb. white sulfite bond does not bleed. Securely bound at top to heavy chipboard backing, and perforated for quick removal of used sheets. Drilled on 17½" centers.

## Solutions by Draper

### Draper Shades—Since 1902

A traditional leader in audio visual projection screens, DRAPER, INC., also manufactures FLEXSHADE SYSTEMS, the finest commercial window coverings. This custom shading system allows for almost unlimited flexibility in solar control. Quality is assured by DRAPER'S 100-plus years in the window coverings industry.

DRAPER FLEXSHADES and INTELLIFLEX controls integrate fully into any audio-visual installation where our projection screens and video projector lifts and mounts are being used, and can be operated in a variety of ways including two-way serial communication, network communication or Ethernet, low voltage control, RF remote control, IR remote control and single station control. DRAPER'S products also work in conjunction with other manufacturer's controls, such as Crestron, Extron and AMX. You can fully automate your screens, lifts and shades.

FLEXSHADES provide glare control, heat control and room darkening anywhere windows or skylights are found. For the finest in sunlight control—ask for DRAPER FLEXSHADES.

With the most comprehensive range of projection screens and related products in the world, we offer a solution for virtually any presentation need. Intelligent design, quality materials and careful attention to detail ensure flawless performance.

These values carry into our full line of gymnasium equipment. EZ FOLD BASKETBALL BACKSTOPS, wall pads, goals and goal posts are just some of our related indoor and outdoor athletic equipment.

# DRAPER

411 South Pearl Street ■ P.O. Box 425  
Spiceland, IN 47385 USA ■ Phone: 765-987-7999  
www.draperinc.com ■ E-mail: draper@draperinc.com  
FAX AV/Video Sales: 866-637-5612  
FAX Contract Sales: 866-637-5611  
FAX Customer Service: 866-397-7353  
FAX International Sales: 765-987-1689  
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Carrying Cases



SC30

<p><b>AV15</b> 50 sheets per pad, 4 pads per carton.</p> <p><b>AV15-40</b> 40 sheets per pad, 5 pads per carton.</p>
--------------------------------------------------------------------------------------------------------------------------------------

SC20



Access Dual Roller FlexShades and a Rolleramic motorized projection screen at University of Illinois at Chicago (UIC) College of Medicine. Dealer: Building Outfitters, Inc., Lake Zurich, Illinois. Photography: Rich Sistos, Glen Ellyn, Illinois. For glare control and UV protection, lower the mesh shades (bottom). If total light control is needed, as in the audio-visual application depicted, lower the room darkening shades (top).

Technical data, installation instructions and the most current specifications for DRAPER products can be found on the Internet at [www.draperinc.com](http://www.draperinc.com).

Unless otherwise noted, all installation photos in this publication are by Wayne Williams Photography. All photos © Draper, Inc. except where noted.