

Draper's Product Guide for

Visual Communication



ABOUT DRAPER

DRAPER, INC., originally known as the Luther O. Draper Shade Company, 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.

After more than a century in business, Draper has grown to be one of the world's largest manufacturers of projection screens, projector lifts, window shades, and gymnasium equipment. In addition, Draper manufactures rear projection display systems, flatscreen lifts and presentation easels.

In addition to its Spiceland, Indiana headquarters, Draper, Inc. has sales offices in Placentia, CA and in Blackwood, Gwent, United Kingdom. Draper also has three wholly owned subsidiaries: Draper Group Ltd., a sales and warehouse facility in Corby, Northamptonshire, United Kingdom, and two manufacturing companies in Sweden, producing Euroscreen projection screens and SMS Smart Media Solutions video projector and flat screen mounts.

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.



The Draper factory today.



The Draper factory c. 1920.

This catalog features Draper's full line of products for visual communication, which includes:

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SELECTING A 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 (if required). Here are some tips to help with these important decisions. For more detailed recommendations, visit us online at: www.draperinc.com/go/FrontScreens.htm

PROJECTION SCREEN SIZE SELECTION

Determine the correct size based upon—

- **The dimensions of the audience area.**
- **The projection format(s) to be used, or aspect ratio:** the screen's height and width configuration, formatted for the desired projection source.
- **Audience Area**—Make the screen large enough so those in the back row can read it, but not so large as to overwhelm the closest viewer.
- **Height**—Use the following to calculate screen height for maximum legibility: for 4:3 NTSC moving video, screen height should be at least $\frac{1}{6}$ the distance from the screen to the furthest seat; for charts and data, use $\frac{1}{4}$; for complex graphics, use $\frac{1}{2}$. For HDTV projection, screen height should be at least $\frac{1}{3}$ the distance from the screen to the optimum seat.

- **Width**—Determined by the height of the screen and the projection format(s)—see formats below.
- **Ceiling Height**—The bottom of the screen should be approximately 40"–48" above a level floor with several rows of seats. In rooms with theatre seating or only one or two rows, the bottom of the screen can be lower. Extra drop may be required in a room with a high ceiling.
- **Projection Format**—The size you've calculated above may be modified based on projection equipment.



Stanwich Congregational Church—Greenwich, CT
Photography © Bruce Katz—New York, NY

COMMON PROJECTION FORMATS

Draper screens are offered in Audio Visual, NTSC Video, 16:10, HDTV, WideScreen, and CinemaScope formats. 17:10 and 15:9 Formats are available by quotation.

Screens with Draper's Tab Tensioning System always include black borders and 12" of black drop at the top.

Audio Visual (or AV) format screens are described in terms of height x width, and are furnished without black borders, although borders are optionally available.

Other formats are defined as a rectangle, with standard sizes described in terms of a nominal diagonal. NTSC, 16:10, HDTV and WideScreen format screens are furnished with black borders on all four sides.

Square	4:3 NTSC	16:10	16:9 HDTV	1.85:1.00 WideScreen	2.35:1.00 CinemaScope

HOW TO CALCULATE A CUSTOM SIZE

Draper also manufactures custom-sized screens to meet your specification. Use the formulas below or the calculator at www.draperinc.com/projectionscreens/customsizecalculator.asp. Virtually any size is available up to the maximum shown for a given model. Download submittal sheets from our web site at: www.draperinc.com/go/Documents.htm.

4:3 NTSC Video	16:10	16:9 HDTV	1.85:1 WideScreen	2.35:1 CinemaScope
$H = D \times .6$	$H = D \times .53$	$H = D \times .49$	$H = D \times .4762$	$H = D \times .3915$
$W = D \times .8$	$W = D \times .848$	$W = D \times .87146$	$W = D \times .881$	$W = D \times .92$
$D = H \times 1.667$	$D = H \times 1.887$	$D = H \times 2.04$	$D = H \times 2.1$	$D = H \times 2.554$
$D = W \times 1.25$	$D = W \times 1.1792$	$D = W \times 1.1475$	$D = W \times 1.135$	$D = W \times 1.0868$

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.



Matt White—Diffuses projected light in all directions, so image can be seen from any angle. Has accurate color rendition and superior clarity. Requires control of ambient light in the audience area. Washable, flame and mildew resistant.

Glass Beaded—Spherical glass beads embedded in surface provide brighter on-axis viewing than Matt White, within a narrower viewing cone. 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 surface offers excellent resolution while enhancing blacks, 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. Seamless in sizes up to 8' in height.

AT1200 and AT Grey—Similar in gain performance to Matt White, with acoustical properties comparable to the finest speaker grille cloth. Washable, flame and mildew resistant. Available in sizes through 72" x 96" or 10' NTSC diagonal. AT1200 is white; AT Grey is grey for high contrast. Acoustically transparent fabrics are not recommended for screens smaller than 80" wide when used with LCD or DLP projectors.

TENSIONED SCREEN SURFACES

These screen surfaces are tensioned vinyl with no textile 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. Highly recommended for video or data-graphics projection.*



M1300—The perfect Matt White diffusing surface. For use with any type of projector in rooms where light can be reasonably controlled. Washable.

M2500—A high-contrast front viewing surface with excellent resolution and high gain. 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. Enhances color contrast, black levels and allows for more ambient light.

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. Lower Gain version of Cineflex is also available with peak gain of 0.8.

SURFACE SELECTION FACTORS

Gain—a relative measure of a screen's reflectivity. Charts (shown above) depict gain values (reflectivity) at various points, measured in degrees from projection axis. These charts help judge uniformity. The flatter the curve in the portion of the viewing cone where viewers sit, the more consistent the image they will perceive. The quality of the image we perceive is primarily a function of gain, contrast, uniformity and resolution.

Contrast—the ability to accurately reproduce and differentiate light and dark colors.

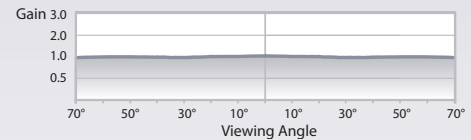
Ambient light rejection properties—the ability to perform well under normal to adverse audience lighting conditions.

Resolution—the clarity of the projected image.

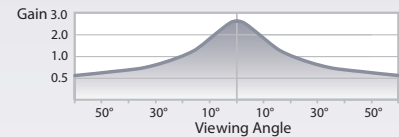
Uniformity—the screen's performance when viewed from points off the projection axis (horizontally or vertically), and when the brightness of the center of the image is compared to the corners.

GAIN CHARTS

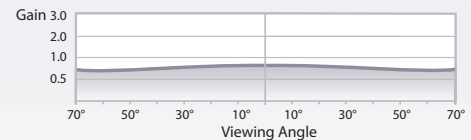
Matt White & AT1200



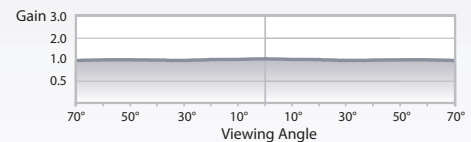
Glass Beaded



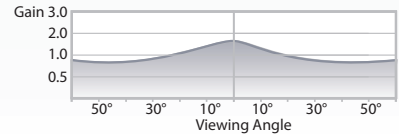
High Contrast Grey & AT Grey



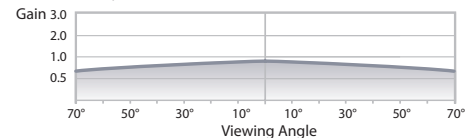
M1300



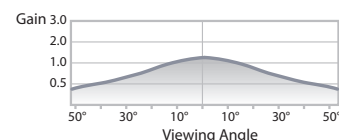
M2500



HiDef Grey



Cineflex



DRAPER'S ECOVISION—Draper's dedication to green construction and environmental responsibility has led to the development of our EcoVision™ range of products, which meet or exceed industry standards for environmental impact.



Draper's EcoVision™ range of viewing surfaces—Matt White, High Contrast Grey, M1300, and HiDef Grey—are GREENGUARD® Children and Schools™ certified fabrics. This is the strictest standard for indoor air quality, designed to protect children in the spaces they occupy for many hours every day.



Draper's EcoVision™ range of products can contribute to LEED® building certification. For more information, contact one of Draper's LEED® Accredited Professionals.

For more information, please visit: www.draperinc.com/go/Green

FRONT PROJECTION SCREENS QUICK REFERENCE—SURFACES AND FEATURES

Screen Model	Page Number	HC Grey, Matt White, or Glass Beaded	M1300, M2500, or HiDef Grey	AT1200/AT Grey Acoustically Transparent	Cineflex Rear Vinyl	Operator (see key)	12" Black Drop	Tensioned Viewing Surface	Ceiling Closure	Sizes over 12' wide
Access MultiView/Series E	7, 10	*		*		M	*			
Access MultiView/Series V	7, 10		*		*	M	*	*		
Access/Series E	7, 8	*		*		M	** ⁴			*
Access/Series M	7, 38	*				SR	** ⁴			
Access/Series V	7, 8		*		*	M	*	*		*
Ambassador	12	*				M			*	
Apex	36	*				SR	** ⁴		*	
Artisan/Series E	18	*				M	** ⁴			
Artisan/Series M	31	*				SR	** ⁴			
Artisan/Series V	18		*			M	*	*		
Baronet	20	*				M	** ⁴			
Cineperm	30		*	*	*	PT		*		*
Cinefold & Truss Cinefold	41-43		* ¹		*	P	*	*		*
Clarion	29		*	*	*	PT		*		
Consul	47	** ²				P				
Diplomat & Diplomat/R	47	*				P				
Envoy	12	*				M	** ⁴		*	
Evenroll	37	** ²				Rope/Pulley				*
Luma	35	*				SR	** ⁴			
Luma 2 & Luma 2/R ²	34	*				SR	** ⁴			
Onyx	28		*	*	*	PT		*		*
Paragon/Series E	14	** ²				M				*
Paragon/Series V	14		* ⁵			M	*	*		*
Piper	45	** ³				P				
Premier	16		*		*	M	*	*		*
Premier/Series C	33		*		*	C	*	*		
RoadWarrior	46	*				P				
Rolleramic	13	*				M				*
Salara	19	*		*		M	** ⁴			
Salara/Series M	37	*				SR	** ⁴			
ShadowBox Clarion	31		*		*	PT		*		
Signature/Series E	11	*		*		M	** ⁴		*	*
Signature/Series V	11		*		*	M	*	*	*	*
Silhouette/Series C	32		*		*	C	*	*		
Silhouette/Series E	15	*		*		M	** ⁴			
Silhouette/Series M	32	*				SR	** ⁴			
Silhouette/Series V	15		*		*	M	*	*		
StageScreen	39, 44		*		*	P		*		*
Star	36	** ³				SR				
Targa	17	*		*		M	** ⁴			*
Traveller	46	*				P				
Ultimate Folding Screen	40, 43		* ¹		*	P		*		*
Ultimate Access/Series E	7, 9	*		*		M	** ⁴		*	
Ultimate Access/Series V	7, 9		*		*	M	*	*	*	
VScreen	36	** ³				SR				
WrapAround Clarion	31		*			PT		*		

¹ Flexible Matt White is the front projection viewing surface available.

² Not available with High Contrast Grey.

³ Matt White only.

⁴ Selected HDTV sizes of non-tensioned screens include 12" black drop as standard.

⁵ M1300 only.

Operator Key

M = Motorized; C = Crank
 SR = Spring Roller; P = Portable
 PT = Permanently Tensioned

For specific details, size and surface limitations, visit:
www.draperinc.com/go/FrontScreens.htm

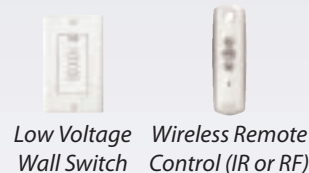
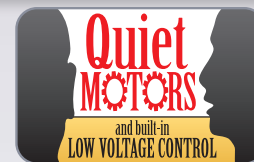
MOTOR AND CONTROL OPTIONS

MOTOR OPTIONS FOR PROJECTION SCREENS—Draper motorized projection screens are standardly provided with a 115V AC motor. Many Draper motorized projection screens are now available with quiet motors or built-in low voltage controllers. These quiet motors are not available in all screen sizes: contact Draper for details.

• **Quiet Motor**—Motor operates at 44 Db. Motor noise is approximately 30% less than standard tubular motors. Compatible with motorized screen controls shown below. These models are currently available with Quiet Motors: *Signature/Series E, Signature/Series V, Silhouette/Series E, Silhouette/Series V, Envoy, Access/Series E, Access/Series V, Ultimate Access/Series E, Ultimate Access/Series V, Artisan/Series E, Artisan/Series V, Premier, and Targa.*

• **Motor with Built-in Low Voltage Controller**—Simplifies installation by eliminating the need for an external low voltage control module. Includes 3-button wall switch to operate screen and set limit switches, and 25' data cable. Compatible with built-in low voltage controls shown at right. These models are currently available with Built-in Low Voltage Controller: *Access/Series E, Access/Series V, Premier, and Targa.*

• **Quiet Motor with Built-in Low Voltage Controller**—Combines the benefits of quiet operation and low voltage control, eliminating the need for an external low voltage control module. Includes 3-button wall switch to operate screen and set limit switches, and 25' data cable. Compatible with built-in low voltage controls shown at right. These models are currently available with Quiet Motors with Built-In Low Voltage Controller: *Access/Series E, Access/Series V, Premier, and Targa.*



CONTROL OPTIONS FOR SCREENS AND LIFTS—For use with standard and quiet motors. Operate Draper motorized projection screens and projector lifts with a wall switch, infrared or radio frequency wireless remote control, or any third-party control system.

• **Single-Station Control (SS-1R)**—Included with all Draper motorized screens, except Salara/Plug & Play™ and Baronet. 110V-120V AC, 3-position switch. Complete with stainless steel cover plate; white decorator style optional. Popular options listed below. UL listed.



SS-1R

• **Multiple-Station Controls**—Can be used with either 115V or low voltage. Similar in appearance to the SS-1R (above), but prevents two signals from reaching the motor at the same time. UL listed.



SS-1R White Decorator Style

• **Locking Switch Cover Plate (SP-KPS-1)**—3-position 115V switch with hinged key-locking coverplate. Maintained action. UL listed.



SP-KPS-1

• **Video Interface Control**—Automatically trigger screen with video projector or projector lift. Model VIC115 integrates screen with equipment using a 115V switched outlet. Models VIC12 & VIC6 for equipment with a 12V switched outlet. The VIC-115, VIC-112, & VIC-6 may be purchased with an override switch (VIC-OS), permitting independent operation of the screen. A VIC is not compatible with any other control switch, LVC-III, or MC-1, except for the VIC override switch. UL listed.



VIC-115

• **External Low Voltage Controls (LVC-III)**—Compatible with master control systems. Optional 3-button wall switch, key control switch, or wireless IR or RF transmitter available. UL listed.



LVC-III

• **MC1**—Low voltage controller that accepts 2-way serial communication. Compatible with master control systems, 3-button wall switch, or wireless IR or RF transmitter. The LS100 Internet Protocol Device allows the connection of Ethernet devices, such as network and control systems to the MC1.



MC1 pictured above without bracket and four gang box (supplied).

These input devices are compatible with Draper's External LVC-III & MC-1

• **Low Voltage Wall Switch (LVC-S)**—Dry contact, 3-button, to raise or lower screen. Momentary action.



LVC-S

• **Locking LVC-S Cover Plate**—Low voltage wall switch with hinged key-locking coverplate. Maintained action. UL listed.



Locking LVC-S Cover Plate

• **Key Control Switch (KS-3)**—3-position key controlled switch. Available for both 115V and low voltage. When used alone a maintained contact switch is provided. With LVC-III a momentary contact switch is provided. Also can be used with motor with built-in low voltage. UL listed.



KS-3

• **Key Operated Power Supply Switch (KS-1)**—the KS-1 power supply switch mounts next to the operating switch and controls power to it. Low voltage or 115V. UL listed.



KS-1

• **Wireless IR Remote Control (IRT)**—3-button operation for instant access to "up," "down," and "stop" functions. Fully compatible with learnable IR master control systems. Receiver plugs into the Draper low-voltage control unit or MC1.



IRT

• **Wireless RF Remote Control (WRT)**—3-button control lets you change direction or adjust format at any point. The RF receiver plugs into the Draper low-voltage control unit or MC1.



WRT

Draper submittals let you specify which control options you need. To help choose the right control options, our Controls Planning Sheet is available online at: www.draperinc.com/go/DraperControlsPlanSheet.htm

ACCESS CASE



THE ACCESS CONCEPT: CASE NOW/SCREEN LATER

• Access/Series V, Series E & Series M

• Ultimate Access/Series V & Series E

Case Now/Screen Later—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 and/or installed 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 because the case design and versatile hanging brackets make it easy to put the projection screen in just the right place.

EASY INSTALLATION—EASY ACCESS

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

- ❶ Hanging brackets that slide in channels on top of the case. Allows unlimited adjustment to avoid interference with structures above the ceiling.
- ❷ 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".
- ❸ White flange around the perimeter of the case supports ceiling tile or trims out rough ceiling opening.
- ❹ "Pin connector" electrical connection of screen to internal junction box eliminates the need for tools.
- ❺ Bottom panel of the case forms a slot for fabric passage and is removable without tools for installation or replacement of screen.
- ❻ Alternate method of installation is possible with an additional set of brackets.

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.

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.

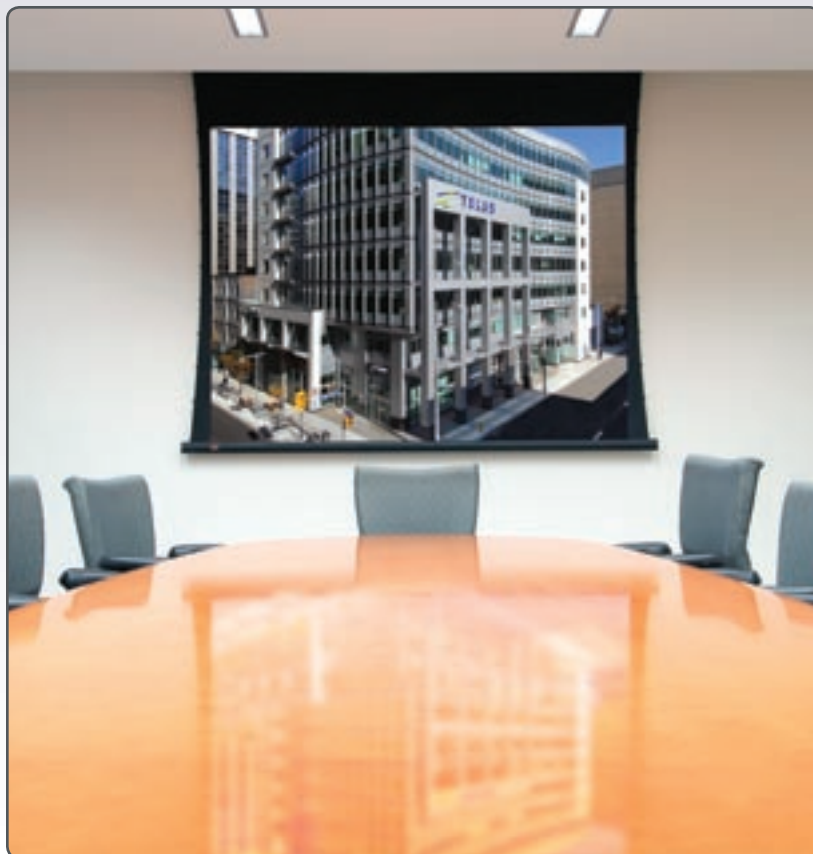


The Access case may be ordered in advance of the screen or alone. The installation of a ceiling-recessed projection screen in the aftermarket may cost more than the screen itself, so a pre-installed ceiling-recessed housing adds real value. You can select, order and install your Access Series screen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

ACCESS SERIES



ELIMINATES YOUR INSTALLATION PROBLEMS—
INSTALL THE CASE NOW / SCREEN LATER



Telus House conference room—Ottawa, Ontario. LEED® Silver Certified.
Photography © Ron de Vries—Toronto, Ontario



Access Screen up



Access Screen down

FEATURES

- The Access Series screens feature ceiling trim flanges, prewired junction box, and movable brackets for a smooth installation.
- The extruded aluminum case is UL approved for use in environmental air space.
- Case can 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 10 for more on the benefits of Tab Tensioning.

Access/Series E—Motorized screen with your choice of a conventional viewing surface: Matt White, Glass Beaded, High Contrast Grey or acoustically transparent AT1200 or AT Grey.

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.
- **Motor and Control Options**—Refer to page 6. Controls may be built into case and will increase overall length of case. Available with optional Quiet Motors, Motors with Built-In Low Voltage Controller, or Quiet Motors with Built-In Low Voltage Controller.

SIZES AND FORMATS

Audio Visual Format

from 50" x 50" to 12' x 12'

NTSC Format

from 6' to 200" diagonal

HDTV Format

from 92" to 184" diagonal

16:10 Format

from 94" to 189" diagonal

WideScreen Format

from 99" to 182" diagonal

Custom Sizes Available

Full details available at:

www.draperinc.com/go/AccessV.htm

www.draperinc.com/go/AccessE.htm

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

ULTIMATE ACCESS SERIES

WITH AN INDEPENDENTLY MOTORIZED CEILING CLOSURE



DePauw University's Green Center for the Performing Arts—Greencastle, IN. Photography by Wayne Williams.



① 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.



② 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 benefits of installing the Access case during the "dirty" phase of the construction process.



③ 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 for screen installation or adjustment.



FEATURES

- 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.
- Case can be installed in advance of screen: see page 6.

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 10 for more on the benefits of Tab Tensioning.

Ultimate Access/Series E—Motorized screen with your choice of a conventional viewing surface: Matt White, Glass Beaded, High Contrast Grey or acoustically transparent AT1200 or AT Grey.

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 6. Controls may be built into case.

SIZES AND FORMATS

Audio Visual Format

from 50" x 50" to 12' x 12'

NTSC Format

from 6' to 15' diagonal

HDTV Format

from 92" to 161" diagonal

16:10 Format

from 94" to 165" diagonal

WideScreen Format

from 99" to 182" diagonal

Custom Sizes Available

Full details available at:

www.draperinc.com/go/UltAccV.htm

www.draperinc.com/go/UltAccE.htm

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

ACCESS MULTIVIEW



ONE SCREEN, TWO FORMATS



16:9 HDTV or 1.85:1 WideScreen



4:3 NTSC

TAB TENSIONING SYSTEM

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

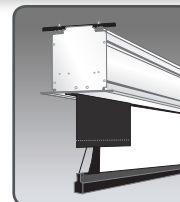
Our Tab Tensioning System has a sleek look. Draper's roller and attachment method is designed to assure that no irregularities mar the smoothness of the viewing surface. The entire surface is flatter than ever before, and the dowel caps are removable allowing you to adjust the surface flatness when necessary.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

Included on Premier, Series V models of Signature, Access, Ultimate Access, Access MultiView, Paragon, Silhouette, and Artisan, and Silhouette/Series C. All of these models include 12" of black drop at the top of the viewing area.



FEATURES

- A motorized screen and independently motorized masking system provides dual format projection—all in a ceiling-recessed Access case. Case can be installed in advance of screen: *see page 6*.
- Select a projection screen in HDTV, WideScreen, or CinemaScope format up to 122" wide. A flat black mask on a second motor-in-roller converts the screen to a narrower 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 *below for more on the benefits of Tab Tensioning*.

Access MultiView/Series E—Your choice of a conventional viewing surface: Matt White, Glass Beaded, High Contrast Grey, or acoustically transparent AT1200 or AT Grey.

OPTIONS

- **Extra Drop**—12" black drop standard for all screens. Extra black drop available up to a total screen height of 90"
- **Black Masking Borders**—Borders are standard for all screens.
- **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 **1**; two wireless IR remote controls **2**; or two wall switches with built-in IR receivers and one transmitter **3**.



SIZES AND FORMATS

From 16:9 HDTV to 4:3 NTSC Format
from 92" to 133"

From 1.85:1 WideScreen to 4:3 NTSC Format
from 95" to 136"

From 2.35:1 CinemaScope to 16:9 HDTV Format
from 103" to 132"

Custom Sizes Available

Full details available at:

www.draperinc.com/go/AccessMVV.htm

www.draperinc.com/go/AccessMVE.htm

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

Other patents pending.

SIGNATURE SERIES

SIZES THROUGH 16' WIDE WITH AN AUTOMATIC CEILING CLOSURE



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



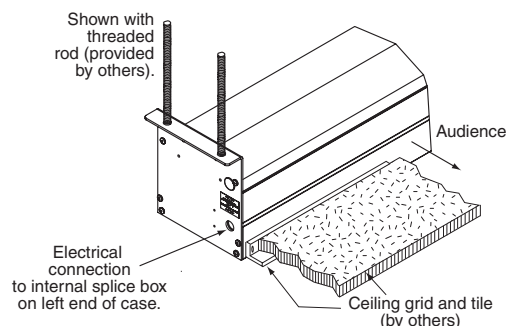
Signature/Series E closed



Signature/Series E opening



Signature/Series E screen descending



FEATURES

- 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.
- Offers the clean appearance of a ceiling-recessed screen in any size through 16' wide.
- White all-aluminum case that is UL approved for use in environmental air space.
- 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 (may also be factory installed).
- Two case sizes: small for screens with an image width through 144"; large for all others.

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 10 for more on the benefits of Tab Tensioning.*

Signature/Series E—Your choice of a conventional viewing surface: Matt White, Glass Beaded, High Contrast Grey or acoustically transparent AT1200 or AT Grey.

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.
- **Motor and Control Options**—Refer to page 6. Available with optional Quiet Motors.

SIZES AND FORMATS

AV Format: from 50" x 50" to 12' x 16'

NTSC Format: from 6' to 240" diagonal

HDTV Format: from 92" to 220" diagonal

16:10 Format: from 94" to 189" diagonal

WideScreen Format: from 99" to 218" diagonal

Custom Sizes Available

Full details available at:

www.draperinc.com/go/SignatureV.htm

www.draperinc.com/go/SignatureE.htm

U.S. Patent No. 5,341,241.

ENVOY



MOTOR-IN-ROLLER WITH CEILING CLOSURE



DePauw University, Greencastle, IN.
Photographer: Wayne Williams,
Indianapolis, IN



FEATURES

- 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 motor is mounted inside the roller on special vibration insulators for silent operation. The screen's slender profile makes it easy to install above most ceilings.
- Your choice of a conventional viewing surface: Matt White, Glass Beaded, High Contrast Grey.
- Available in AV, NTSC, HDTV, and WideScreen formats up to 140" wide.

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.
- **Motor and Control Options**—Refer to page 6. Available with optional Quiet Motors.

Full details available at:

www.draperinc.com/go/Envoy.htm

AMBASSADOR



DIRECT-DRIVE WITH CEILING CLOSURE



Belden Inc., Richmond, IN.
Photographer: Wayne Williams, Indianapolis, IN.

FEATURES

- 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 Matt White, Glass Beaded or High Contrast Grey viewing surface.
- Available in AV Format up to 12' x 12'.



OPTIONS

- **Extra Drop**—Up to 12' overall height, either white or black (white is standard).
- **Black Masking Borders**—optional.
- **Control Options**—Refer to page 6.

Full details available at:

www.draperinc.com/go/Ambassador.htm

ROLLERAMIC



HEAVY-DUTY SCREEN FOR BIG VENUE PRESENTATIONS—NOW IN HDTV FORMAT



*David M. French Hall, University of Michigan—Flint.
Architect: SHW Group, LLP, Berkely, MI. Dealer: Advanced Specialties, Clawson, MI.
Photography © Curt Clayton, Detroit, MI.*



FEATURES

- 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: Matt White, Glass Beaded or High Contrast Grey.

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 6.

SIZES AND FORMATS

AV Format

from 50" x 50" to 20' x 20'

NTSC Format

from 6' to 25' diagonal

HDTV Format—**NEW!**

from 92" to 270" diagonal

16:10 Format and Custom Sizes Available.

Full details available at:

www.draperinc.com/go/Rolleramic.htm

PARAGON SERIES



LARGE PROJECTION SCREEN THROUGH 28' WIDE—NOW AVAILABLE WITH TAB TENSIONING



Paragon/Series V



Paragon/Series E
at Wabash College,
Crawfordsville, IN.
Photography by
Wayne Williams,
Indianapolis, IN.

FEATURES

- Now available with Draper's Tab Tensioning system as Paragon/Series V.
- Designed for auditoriums and lecture halls.
- Choose the Paragon for any setting where a very large screen is required.
- White extruded aluminum case can be suspended anywhere, with controls wherever they're needed.

Paragon/Series V—NEW! Motorized screen now available with Tab Tensioning System in sizes larger than ever before, through 24' wide. Features M1300 viewing surface and 12" of black drop as standard. See page 10 for more on the benefits of Tab Tensioning.

Paragon/Series E—Motorized screen in sizes through 28' wide. Your choice of a viewing surface: Matt White or Glass Beaded.

OPTIONS

- **Extra Drop**—Up to 24' total screen height, either surface color or black. (Surface color standard on Series E AV format screens, black on all others).
- **Black Masking Borders**—Borders are optional for Series E AV Format screens and standard for all other format screens.
- **Control Options**—Refer to page 6.
- **Wall-Mounting Brackets**—Two brackets with hardware for attachment to case.
- **Ceiling Tile Flange**—Extruded aluminum, finished white. 12' sections, with hardware for attaching to both front and back of case if required. Flange also available for the endcaps of the Paragon case.

SIZES AND FORMATS

AV Format

Series E—from 15' x 20' to 21' x 28'
Series V—from 13'6" x 18' to 18' x 24'

NTSC Format

Series E—from 25' to 35' diagonal
Series V—from 250" to 30' diagonal

HDTV Format

Series E—from 270" to 384" diagonal
Series V—from 227" to 324" diagonal

16:10 Format

Series V—from 234" to 335" diagonal

Full details available at:

www.draperinc.com/go/Paragon.htm

U.S. Patent No. 6,873,461. Other patents pending.

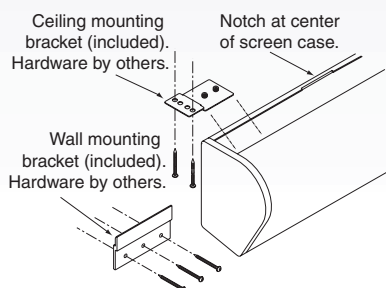
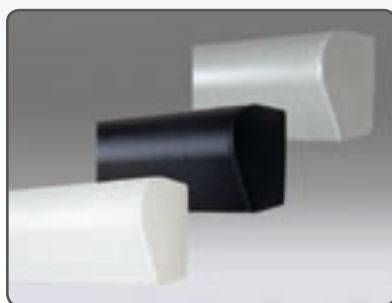
SILHOUETTE SERIES



FOR A HIGH TECH APPEARANCE



Telus House conference room—Ottawa, Ontario. LEED® Silver Certified.
Photography © Ron de Vries—Toronto, Ontario



Installer/Dealer/Designer: Harmony Interiors, Asheville, NC Photographer: Scott Arthur Photograph, Weaverville, NC

FEATURES

- The Silhouette's case conceals everything: mounting fixtures, fasteners, electrical connections, and optional controls. Even the dowel retracts inside the 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 10 for more on the benefits of Tab Tensioning.*

Silhouette/Series E—Your choice of a conventional viewing surface: Matt White, Glass Beaded, High Contrast Grey or acoustically transparent AT1200 or AT Grey.

OPTIONS

- **Case Finishes**—Choose a white (standard), black or dove grey lightly textured finish (*see samples shown at left*).
- **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.
- **Motor and Control Options**—*Refer to page 6.* Controls may be built into case and will increase the overall length of the case. Available with optional Quiet Motors.

SIZES AND FORMATS

AV Format: from 50" x 50" to 96" x 96"

NTSC Format: from 6' to 10' diagonal

HDTV Format: from 65" to 106" diagonal

16:10 Format: from 67" to 109" diagonal

WideScreen Format: 99" and 108" diagonal

Custom Sizes Available.

Full details available at:

www.draperinc.com/go/SilhouetteV.htm

www.draperinc.com/go/SilhouetteE.htm

U.S. Patent Nos. 5,296,964 and 6,111,694.

PREMIER SERIES



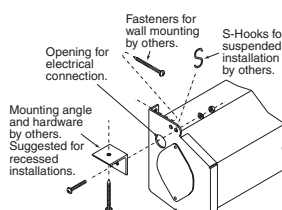
PERFECTLY FLAT VIEWING SURFACE
DELIVERS PERFECT IMAGE CLARITY



DePauw University, Greencastle, IN. Photography by Wayne Williams, Indianapolis, IN



Large style
Premier case



FEATURES

- The Premier's automatic Tab Tensioning System delivers incredible picture quality with its perfectly flat viewing surface. See page 10 for more benefits of Draper's Tab Tensioning System.
- 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.

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.
- **Motor and Control Options**—Refer to page 6. Available with optional Quiet Motors, Motors with Built-In Low Voltage Controller, or Quiet Motors with Built-In Low Voltage Controller.

SIZES AND FORMATS

AV Format: from 50" x 50" to 12' x 16'

NTSC Format: from 6' to 20' diagonal

HDTV Format: from 65" to 220" diagonal

16:10 Format: from 67" to 226" diagonal

WideScreen Format: from 99" to 218" diagonal

Some sizes require large style case (see photo at left). Custom sizes available.

Full details available at:

www.draperinc.com/go/Premier.htm

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 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.

TARGA



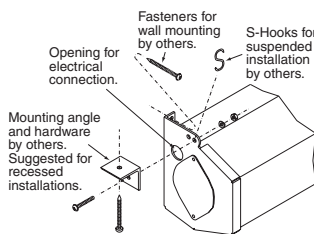
MOTOR-IN-ROLLER FOR SMOOTH, QUIET OPERATION



Targa with large style case at DePauw University's Prindle Institute for Ethics. LEED® Silver certified.



*Large style
Targa case*



FEATURES

- 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: Matt White, Glass Beaded, High Contrast Grey, acoustically transparent AT1200 or AT Grey.

OPTIONS

- **Extra Drop**—Total screen height cannot exceed 18' for 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. Not compatible with large style Targa case. *See page 16 for details.*
- **Motor and Control Options**—Refer to page 6. Available with optional Quiet Motors, Motors with Built-In Low Voltage Controller, or Quiet Motors with Built-In Low Voltage Controller.

SIZES AND FORMATS

AV Format from 50" x 50" to 16' x 16'

NTSC Format from 6' to 240" diagonal

HDTV Format from 65" to 220" diagonal

16:10 Format from 67" to 222" diagonal

WideScreen Format from 99" to 218" diagonal

Some sizes require large style case (see photo at left). Custom sizes available.

Full details available at:

www.draperinc.com/go/Targa.htm

ARTISAN SERIES



FEATURING HAND-CRAFTED CASES IN SOLID HARDWOOD OR PLASTIC LAMINATE



Natural Wood Finishes—The unique beauty of natural wood means that the color of your Artisan case may vary from printed reproductions or samples. If you are seeking to match existing furnishings, please request custom stain matching and provide a physical sample for best results. Contact Draper for more information.

At left: Artisan/Series E with Radius Case Style

CASE STYLES AND FINISHES



Radius

Rectilinear

Traditional

Bevel

SOLID HARDWOODS



Natural Maple

Natural Cherry

Light Oak

Medium Oak

Walnut

Medium Cherry

Mahogany

PLASTIC LAMINATES



White

Black

Beige

Dove Grey

Burgundy

FEATURES

- Artisan Series projection screens complement the fine furniture in your conference room.
- Enclosed in solid hardwood cases with a variety of finishes to match virtually any decor—or in sleek, contemporary plastic laminate.
- Knockouts provided for top or rear conduit connection.
- Quiet motor-in-roller operation.
- Z-brackets supplied with screen for wall-mounting.

Artisan/Series V—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500 or HiDef Grey. See page 10 for more on the benefits of Tab Tensioning.

Artisan/Series E—Your choice of a conventional viewing surface: Matt White, Glass Beaded or High Contrast Grey.

OPTIONS

- **Case Styles**—Hardwood cases are available in four styles, shown at lower left.
- **Case Finishes**—Choose from seven hardwoods and five laminates, shown at lower left. 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.
- **Motor and Control Options**—Refer to page 6. Available with optional Quiet Motors.

SIZES AND FORMATS

AV Format from 50" x 50" to 96" x 96"

NTSC Format from 6' to 10' diagonal

HDTV Format in 92" or 106" diagonal

16:10 Format: from 67" to 109" diagonal

WideScreen Format in 99" or 108" diagonal

Custom sizes available.

Full details available at:

www.draperinc.com/go/Artisan.htm

SALARA SERIES



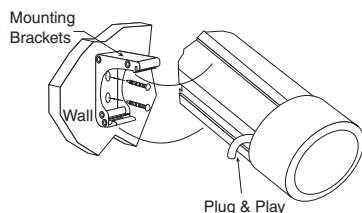
YOU'VE NEVER SEEN A SCREEN
LIKE THIS BEFORE



Built-in controller and
IR receiver



Hand-held
IR transmitter



FEATURES

- 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.

Salara—Salara is a hardwired screen like other Draper motorized screens. It can be furnished with any standard control option. Refer to page 6. Salara is available in your choice of a conventional viewing surface: 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.

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.

SIZES AND FORMATS

AV Format

from 50" x 50" to 96" x 96"

NTSC Format

from 6' to 10' diagonal

HDTV Format

from 65" to 106" diagonal

16:10 Format

from 67" to 109" diagonal

WideScreen Format

in 99" or 108" diagonal

Full details available at:
www.draperinc.com/go/Salara.htm

BARONET



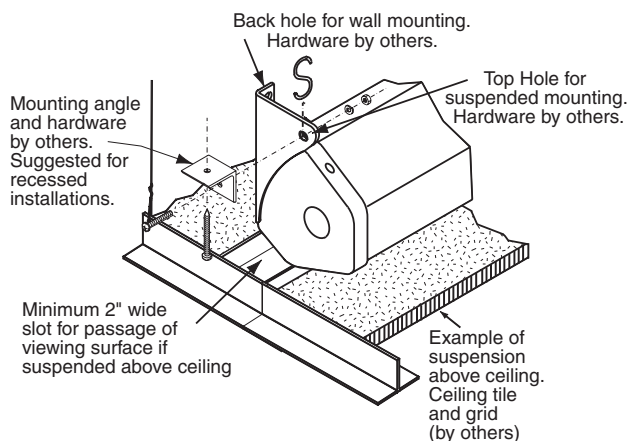
NO ELECTRICIAN REQUIRED TO INSTALL THIS COMPACT SCREEN



An in-line operating switch controls the Baronet



White endcaps form universal mounting brackets



FEATURES

- 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.
- Controlled by a 3-position, in-line operating switch.
- Attractive case fits in most spaces. Case measures only 3 1/4" high x 3 1/4" 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 Matt White, Glass Beaded and High Contrast Grey.

OPTIONS

- **Extra Drop**—Up to 8' overall height, either surface color or black. (Surface color standard for AV format screens and black for all 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.

SIZES AND FORMATS

AV Format

from 50" x 50" to 96" x 96"

NTSC Format

from 6' to 10' diagonal

HDTV Format

from 65" to 106" diagonal

16:10 Format

from 67" to 109" diagonal

WideScreen Format

in 99" or 108" diagonal

Full details available at:

www.draperinc.com/go/Baronet.htm

SCISSOR LIFT

THE ORIGINAL SCISSOR LIFT WITH “STORE, SHOW, AND SERVICE” POSITIONS



Stanwich Congregational Church, Greenwich, CT.
Photography © Bruce Katz, New York, NY.

Scissor Lift SL Series

Model Number	SL4	SL5	SL6	SL7	SL8	SL9	SL10
Height of lift in closed position ¹	8 $\frac{1}{4}$ "	9 $\frac{1}{8}$ "	10 $\frac{1}{8}$ "	11 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	13 $\frac{1}{8}$ "	14 $\frac{1}{8}$ "
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 ¹	13 $\frac{3}{4}$ "	15 $\frac{3}{4}$ "	15 $\frac{3}{4}$ "	17 $\frac{1}{8}$ "	17 $\frac{1}{8}$ "	19 $\frac{1}{8}$ "	19 $\frac{1}{8}$ "
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

¹ Only height of Scissor Lift in closed position. Overall height of projector, plus optional mount, plus optional ceiling closure, plus optional Environmental Air Space Housing adds to overall height of equipment installed above ceiling.

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 the "store", "show" and "service" positions 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** offer service positions ranging from 4' to 10' and feature a small footprint: 23" wide and 23 $\frac{1}{2}$ " deep.

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.

Lowere projector up to 17'

Seven Scissor Lift SLX models (SLX11-SLX17) offer "service" positions ranging from 11' to 17'. A slightly larger footprint (27" wide x 29 $\frac{1}{2}$ " deep) allows for the extended travel with no loss of stability. Lifting capacity is 350 lb.

OPTIONS

- **Ceiling Closure Panels for SL & SLX Series**—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.
- **Environmental Airspace Housing**—Housing isolates projector from environmental airspace above ceiling. Includes ceiling trim ring. Does not include ceiling closure panel.
- **Ceiling Finish Kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **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.
- **Controls**—Described on page 6.

Full details available at:

www.draperinc.com/go/ScissorLift.htm

U.S. Patent No. D395,909.

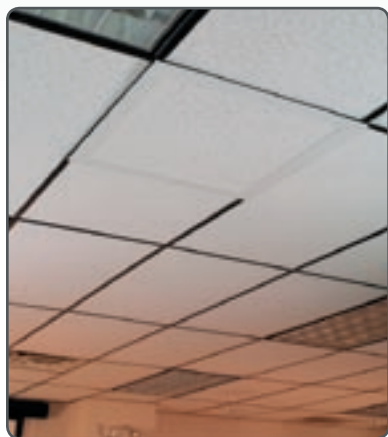
MICRO PROJECTOR LIFT



DESIGNED FOR TODAY'S SMALLER PROJECTORS



MPL installations, both featuring optional ceiling closure.
Photography by Wayne Williams, Indianapolis, IN.



Dimensions and Data

Height of lift in closed position ¹	5"
Overall lift dimensions (W x L)	21" x 20¾"
Ceiling opening	23½" x 23½"
Optional Environmental Air Space Housing (trim edge to trim edge) ²	23⅞" x 23⅞"
Max. projector size (W x L) ³	20" x 20"
Max. down travel	4'
Capacity	35 lbs.
Net weight of lift	35 lbs.
Amperes ⁴	1.2

¹ Not including projector, mount/bracket or optional closure.

² Max. Environmental Air Space Housing height: 20⅞". Min. height: 12⅞"

³ Max. available projector/bracket height (with Environmental Air Space Housing): 13½"

⁴ Min. available projector/bracket height (with Environmental Air Space Housing): 5½"

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

- The Micro Projector Lift (MPL) is small and convenient, just like the projectors it is designed to accommodate.
- Lifting capacity of 35 pounds. MPL 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 21), 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.

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.
- **Environmental Airspace Housing**—Aluminum housing isolates projector from environmental airspace above ceiling. Does not include ceiling closure panel.
- **Ceiling Finish Kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **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 6.

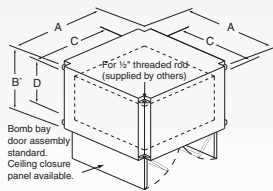
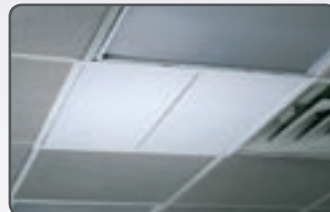
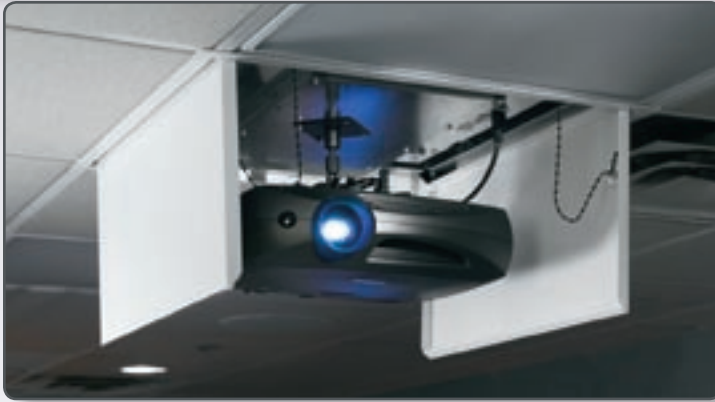
Full details available at:

www.draperinc.com/go/MPL.htm

U.S. Patent Nos. D395,909 and 6,637,711. Other patents pending.

Kevlar® is a registered trademark of DuPont.

LCD LIFT



	Model A	Model B
A	24"	29"
B*	17 $\frac{3}{4}$ "	22 $\frac{3}{4}$ "
C	18"	23"
D	11"	16"

*Ceiling closure panel adds $\frac{5}{8}$ " to dimension B.

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.

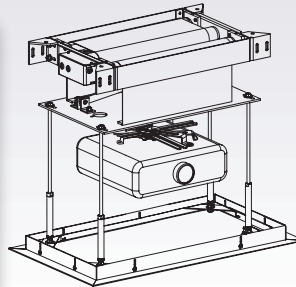
Environmental Air Space Housing of aluminum, with closure doors finished in white, is standard. Contains internal switched duplex receptacle, 115V AC, which is powered when the unit is fully down. The LCD Lift contains an innovative current sensor that delays closing of the unit until the projector lamp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

OPTIONS

- **Ceiling Closure Panel**—Flat 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.
- **Factory-Installed Cables**—for RGBHV, Video and Control.
- **Control Options**—Operated by one 115V rocker switch. *For more options, refer to page 6.*

Full details at: www.draperinc.com/go/LCDLift.htm

AEROLIFT



	AeroLift 25	AeroLift 50	AeroLift 150
Height of lift in closed position ¹	4"	6 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "
Max. overall lift dims (w x l)	22 $\frac{1}{4}$ " x 14"	28 $\frac{1}{4}$ " x 15"	31 $\frac{1}{4}$ " x 15 $\frac{5}{8}$ "
Max. down travel	20"	32"	32"
Approx. travel time to lowest position	14 sec.	23 sec.	23 sec.
Total Capacity (lbs.)	25	50	150
Net weight of lift (lbs.)	20	28	32

¹Only height of AeroLift in closed position. Overall height of projector, plus mount, plus optional ceiling closure, plus optional Environmental Air Space Housing adds to overall height of equipment installed above ceiling.

Three models to lift up to 25, 50 or 150 lbs. AeroLifts install in even the tightest spots, and offer a different look than traditional scissor lifts. Use AeroLift to conceal projectors, speakers, or cameras.

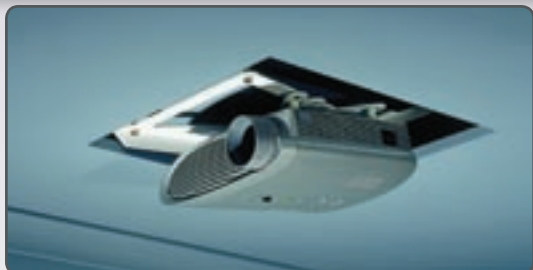
All three models are powered by strong tubular motors for a simplified design, and feature a stabilizing arm which can be used for cable management. Built-in adjustability allows you to deal with job site conditions quickly and easily, like slightly out of square or irregularly spaced joists. Projector can be mounted flush to bottom pan.

OPTIONS

- **Environmental Airspace Housing**—Aluminum housing isolates projector and lift from environmental airspace above the ceiling.
- **Ceiling Closure Panel**—Universal steel ceiling closure in a white finish or recessed to accept ceiling tile. *Shown in photo at left.*
- **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 6.*

Full details at: www.draperinc.com/go/AeroLift.htm

ORBITER



Dimensions & Data	Model A	Model B
Overall Size (w x l x h)	23" x 25 ¹ / ₁₆ " x 14"	27" x 29 ¹ / ₂ " x 16"
Ceiling Panel Size (w x l)	19 ¹ / ₁₆ " x 17 ¹ / ₁₆ "	23 ³ / ₁₆ " x 21 ¹ / ₁₆ "
Installation Height (lift only)	14"	16"
Net Weight of Unit	33 lbs.	38 lbs.
Lifting Capacity	26 lbs.	26 lbs.
Maximum Projector Width	17"	20 ³ / ₄ "
Control Included	Wall Switch	Wall Switch
Control Options	IR or RF Remote	IR or RF Remote

YOU WON'T SEE THE PROJECTOR UNTIL IT ORBITS INTO PLACE

Ingenious design allows the Orbiter to fit in small ceiling cavities. It is the only lift that can be installed in an angled ceiling, a wall or a tabletop, making it uniquely versatile. The lift conceals the projector 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.

OPTIONS

- **Environmental Airspace Housing**—Aluminum housing isolates projector from environmental airspace above ceiling.
- **Angled Ceiling Adapter**—for mounting on angled ceilings or walls.
- **DC Motor Control**—required for IR/RF/Serial/Network operation.
- **Control Options**—3-button up-stop-down switch, IR or RF.

Full details available at: www.draperinc.com/go/Orbiter.htm

PHANTOM



Dimensions & Data	Model A	Model B
Overall Size (w x l x h)	17 ⁷ / ₈ " x 25 ¹ / ₁₆ " x 14 ¹ / ₄ "	21 ¹ / ₁₆ " x 32 ³ / ₄ " x 17 ³ / ₄ "
Ceiling Panel Size (w x l)	15 ⁵ / ₈ " x 15 ⁵ / ₈ "	19 ¹ / ₁₆ " x 19 ¹ / ₁₆ "
Installation Height (lift only)	14 ¹ / ₂ "	18"
Net Weight of Unit	18 lbs.	27 lbs.
Lifting Capacity	26 lbs.	26 lbs.
Maximum Projector Width	13"	16 ⁷ / ₈ "
Control Included	Wall Switch	Wall Switch
Control Options	IR or RF Remote	IR or RF Remote

REVEALS ITSELF AT JUST THE RIGHT TIME

The totally unique Phantom 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 Phantom can also be used for videoconferencing cameras, speakers, etc.

The projector is mounted above the ceiling or in a tabletop. When activated, a trapdoor brings the projector into your room using a precision actuator with preset 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 24V DC low voltage motor, which allows for easier control and wiring of the lift.

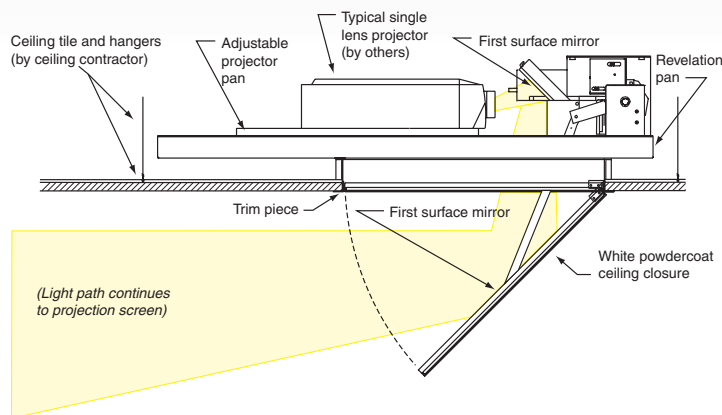
OPTIONS

- **Environmental Airspace Housing**—Aluminum housing isolates projector from environmental airspace above ceiling.
- **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.

Full details available at: www.draperinc.com/go/Phantom.htm

REVELATION

YOU WON'T SEE OR HEAR THE PROJECTOR



Dimensions and Data

	Model A	Model B
Overall unit size (HWL)	13" x 38 1/4" x 34"	13" x 38 1/4" x 44"
Required space above ceiling*	13 5/8" x 38 1/4" x 34"	13 5/8" x 38 1/4" x 44"
Clearance below ceiling	approx. 17"	approx. 17"
Rough ceiling opening for motorized door	23 1/2" x 23 1/2"	23 1/2" x 23 1/2"
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 5/8" is overall height of Revelation with Environmental Air Space Housing (13" without EASH).

FEATURES

- 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. 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 5/8" of space above the ceiling, and both can be installed to match a 2' x 2' ceiling grid. 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 are 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 showmanship to a new level.

OPTIONS

- **Environmental Airspace Housing**—Aluminum housing isolates projector from environmental airspace above ceiling. Includes intake and exhaust fan systems 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 6.

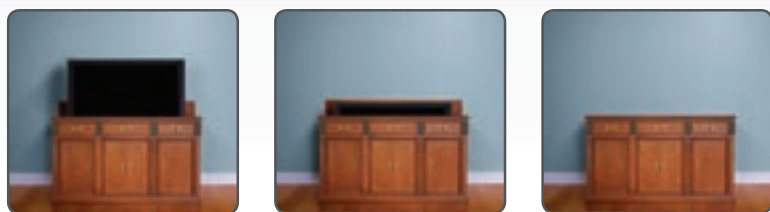
Full details available at:

www.draperinc.com/go/Revelation.htm

U.S. Patent No. 6,379,012.

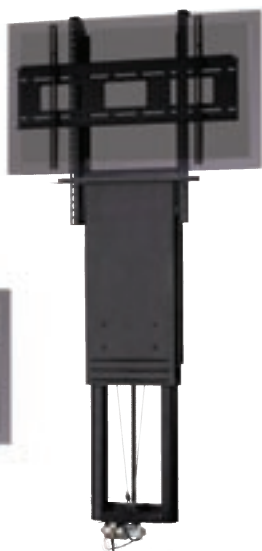
FLATSCREEN LIFT

CONCEAL A FLATSCREEN INSIDE YOUR OWN CABINETRY OR FURNITURE, AND RAISE IT INTO VIEW FOR "SHOWTIME"



The compact size of the FlatScreen Lift provides the greatest flexibility in installation within cabinetry or custom furniture. A minimum interior height is required for installation space, and the width must only accommodate the width of the display and any other added accessories.

At left: Draper's FSL-F-50 FlatScreen Lift in "stored" position. At right: FlatScreen Lift in extended position.



Draper's FlatScreen Lift elegantly complements the existing line of projector mounts by allowing you to conceal a flatscreen television or display inside your own cabinetry or furniture, and raise it into view for "showtime."

Always aiming high, Draper's FlatScreen Lift far surpasses the competition. Its "stored" dimensions are significantly more compact, and yet the maximum extended height is greater than any other model currently available. In addition, the interior dimensions of the cabinet only need to exceed the height of the stored lift by two inches. The FlatScreen Lift offers more flexibility for the installer or furniture manufacturer.

Draper's FlatScreen Lift utilizes a universal mounting option and easy "drop-in" installation into your cabinetry or furniture. In addition, a unique secondary shelf beneath the display, allows you to install a matching trim piece to fill the opening for a clean, finished appearance when raised.

SURPASSING THE REST

Draper's FlatScreen Lift greatly exceeds the abilities of the competition with a vertical extension of up to 148% of stored height. The nearest competitor only offers a possible extension of 84% of stored height. The FlatScreen Lift does this while maintaining the most compact design, with the smallest stored height and depth. Easily adjust the limits to stop the lift at any intermediate point for "show" positions.

PROTECT YOUR INVESTMENT

FlatScreen displays are a considerable investment. The long-term safety and stability of your display should therefore be taken into account when choosing a lift. Draper's FSL-F-50 offers smooth acceleration and braking, which prevents "jarring" of the display during operation. In addition, Power Surge Line Overload Protection is built in, preventing spikes in power from damaging your display.

SIZES:

- **FSL-F-42** for flatscreen sizes up to 42"
- **FSL-F-50** for flatscreen sizes up to 50"
- **FSL-F-65** for flatscreen sizes up to 65"

OPTIONS:

- RS232 and IR remote control optionally available.

Full details available at:

www.draperinc.com/go/FlatScreenLift.htm

US Patent No. 7,128,003.

TORKSTAR UTILITY LINE SET



TorkStar and Signature/Series V with Cineflex installation by Troxell, Inc. at Shelton High School, Shelton, WA. Photography © Aaron Leitz, Seattle, WA.



TorkStar is an inherently safe, simple lifting system designed to raise and lower a wide range of products commonly used on stages, in gymnasiums and churches and other public venues. It consists of a motor winch and one or more PosiSpools™, connected by a drive shaft and mounted to the ceiling structure. TorkStar utilizes aircraft cable lift lines with a lifting capacity of 500 pounds each.

TorkStar eliminates the need for stepladders, scaffolding, or lifts to service or change lamps, filters, or other ceiling suspended items.

USE TORKSTAR TO LIFT:

Projection Screens, Lighting, Speakers, Backdrops, Scenery, Draperies, Curtains, Scrims, Signs, Banners, Flags, Chandeliers, etc.

TORKSTAR COMPONENTS:

Contact your Draper sales representative for assistance.

- **TS1000 Motor Winch**—1,000 lb lifting capacity. Includes 50 ft. of cable and one KS2DBL Key Operating Switch.
- **TS1400 Motor**—1,400 lb lifting capacity. Includes one KS2DBL Key Operating Switch.
- **PS500 PosiSpool**—Up to 500lb capacity. Includes 50 ft. of cable and two PS500SC Drive Shaft Couplings.
- **Projection Screen Mounting Kits**—Choose the specific kit for your Draper projection screen. Direct cable mounting kits and batten mounting kits available.
- **MK500 Beam Mounting Kit**—For attaching to steel beam that is perpendicular to the Line Set.
- **TS90 Parallel Beam Adapter Plate**—For attaching to steel beam that is parallel and directly above the Line Set.
- **500BH Adjustable Batten Clamp**—Strongly recommended if you are going to use a batten. One required per lift line. Not for use with Projection Screen Batten.
- **500CF Ceiling Flange**—One per lift line.
- **Drive Shaft**—2 $\frac{3}{8}$ " O.D. / 2" I.D. Schedule 40 pipe. Available from Draper in 21' lengths, or you can source locally.
- **Batten**—1 $\frac{7}{8}$ " O.D. / 1 $\frac{1}{2}$ " I.D. Schedule 40 pipe. Available from Draper in 21' lengths, or you can source locally.
- **PS500SC Drive Shaft Coupling**—Attaches drive shaft to Motor and PosiSpools.
- **KS2DBL Operating Switch**—Single gang double key switch.
- **Electrical Cable Management System**—Assists in providing power to a motorized projection screen. 35' long adjustable industrial-grade precision cable reel. Includes electrical connector and strain relief. UL and CSA Listed.
- **Electrical Cable Management System Beam Mounting Kit**—For mounting cable management system to beam.
- **Motor Test Cord**—6' long with inline 3-position up/down/stop switch.

Full details available at:

<http://www.draperinc.com/go/TorkStar.htm>

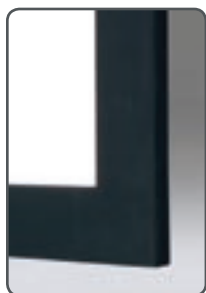
US Patent Nos. 5,803,437 and 7,210,645.

ONYX

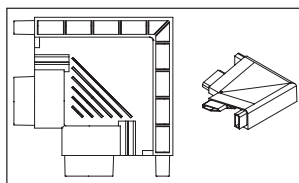
QUICK AND EASY ASSEMBLY PLUS ADJUSTABLE SURFACE TENSION



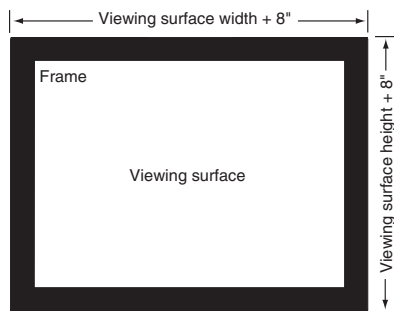
Onyx installation by David Szathmary in Gallerie Jean Moulin, Hyde Park of Austin, Texas. Photography: Barry Champagne, Houston Texas.



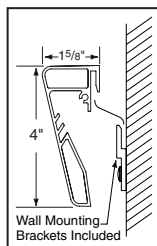
*Onyx
frame
details:
rear view*



*Injection molded plastic corners
form perfectly mitered edges.*



*Frame Detail
Side View.
Viewing
surface is
approximately
1/4\"/>*



FEATURES

- You can have a beautifully framed projection screen 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.
- An innovative 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 1 1/2") in just seconds, without tools.
- Permanent wall mounting brackets included.

OPTIONS

- **Viewing Surfaces**—M1300, M2500, HiDef Grey, AT1200 and AT Grey for front projection, or Cineflex rear projection vinyl.
- **Frame Finishes**—Black aluminum is standard. Cover the frame with optional velvety black Vel-Tex® to eliminate reflections. Pictured at left.

SIZES AND FORMATS

AV Format

from 50" x 50" to 120" x 120"

NTSC Format

from 6' to 15' diagonal

HDTV Format

from 65" to 220" diagonal

16:10 Format

from 67" to 226" diagonal

WideScreen Format

from 99" to 162" diagonal

CinemaScope Format

from 115" to 204" diagonal

Available in virtually any custom size up to 20' x 20'. Overall size, including frame, equals image area plus 8"

Full details available at:

www.draperinc.com/go/Onyx.htm

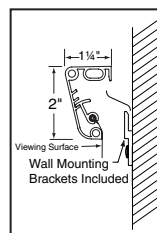
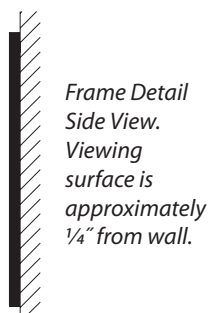
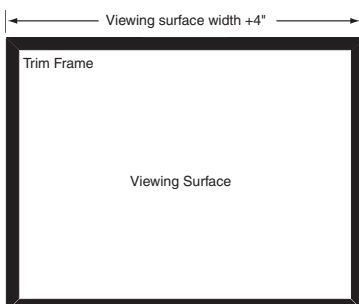
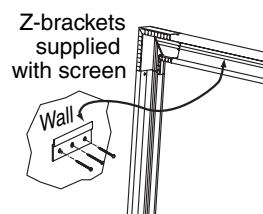
U.S. Patent No. 6,785,047; 7,113,332; and 7,369,310.

CLARION

PERFECT PICTURE QUALITY FROM A FIXED PROJECTION SCREEN



Earlham College, Richmond, Indiana



FEATURES

- Improve your image with a Clarion projection screen. Viewing surface is flat, for perfect picture quality. Viewing surface is stretched tightly behind a beveled black aluminum frame.
- Designed for quick assembly and flatter viewing surface—no snaps!
- Z-Clip wall mounting brackets included to simplify installation.

OPTIONS

- **Viewing Surfaces**—M1300, M2500, HiDef Grey, AT1200 or AT Grey for front projection, or Cineflex rear projection vinyl.
- **Frame Finishes**—Black aluminum is standard. Cover the frame with optional velvety black, Vel-Tex® to eliminate reflections.

SIZES AND FORMATS

AV Format

from 50" x 50" to 120" x 120"

NTSC Format

from 6' to 15' diagonal

HDTV Format

from 65" to 161" diagonal

16:10 Format

from 67" to 165" diagonal

WideScreen Format

from 99" to 162" diagonal

CinemaScope Format

from 115" to 166" diagonal

Available in virtually any custom size up to 14' x 14'. Overall size, including frame, equals image area plus 4"

Full details available at:

www.drapersinc.com/go/Clarion.htm

U.S. Patent No. 6,785,047; 7,113,332; and 7,369,310.

CINEPERM

SNAP-ON SCREEN WITH ALUMINUM FRAME



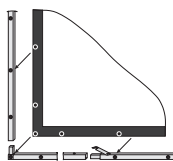
Truss Cineperm at the First Baptist of Glenarden, Upper Marlboro, MD. Dealer: Communications Engineering, Newington, VA.



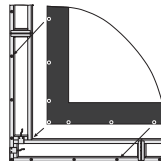
Cineperm frame details: rear view



Cineperm frame details: front view



Cineperm Standard Construction



Cineperm Truss-Style Construction

FEATURES

- 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.

OPTIONS

- **Viewing Surfaces**—M1300, M2500, HiDef Grey, AT1200 or AT Grey for front projection, or Cineflex rear projection vinyl.
- **Truss Sizes**—Sizes larger than 10½' x 14' are manufactured with truss-style construction, using a 6" wide frame and borders.

SIZES AND FORMATS

AV Format

from 46" x 46" to 140" x 140"

NTSC Format

from 6' to 25' diagonal

HDTV Format

from 65" to 220" diagonal

16:10 Format

from 67" to 226" diagonal

WideScreen Format

from 99" to 162" diagonal

CinemaScope Format

from 115" to 166" diagonal

Available in virtually any custom size up to 15' x 20'. Overall size, including frame, equals image area plus 4".

Full details available at:

www.draperinc.com/go/Cineperm.htm

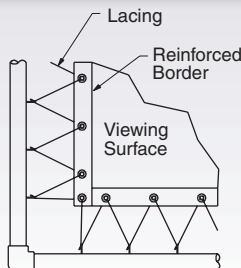
U.S. Patent No. 6,785,047; 7,113,332; and 7,369,310.

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 in sizes up to 40' x 60' (10' x 40' for some fabrics—contact Draper). Ideal for theatres, auditoriums and stage events. Lacing cord sold separately. Frame provided by others.

- **Viewing Surfaces**—Front projection choices: M1300, M2500 and HiDef Grey. For rear projection, choose Cineflex vinyl.

Full details available at: www.draperinc.com/go/LaceGrommet.htm



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.

OPTIONS

- **Viewing Surfaces**—M1300, M2500, HiDef Grey, AT1200 or AT Grey for front projection, or Cineflex rear projection vinyl.
- **Sizes and Formats**—Available in virtually any custom size up to 20' x 20'. Overall size, including frame, equals image area plus 3".
- **Frame Finishes**—Black aluminum is standard, and may be covered with velvety black Vel-Tex®, to eliminate reflections on the frame.

Full details available at: www.draperinc.com/go/Shadowbox.htm

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.

OPTIONS

- **Viewing Surfaces**—M1300, M2500 or HiDef Grey.
- **Sizes and Formats**—Available in virtually any custom size up to 20' x 20'. Image area will match the overall size.
- **Frame and Borders**—No frame or borders are visible since the surface wraps completely around the frame.

Full details available at: www.draperinc.com/go/WrapAround.htm

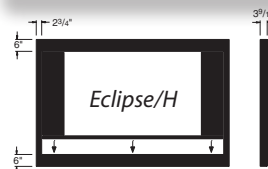
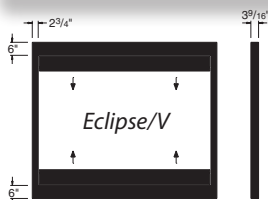
ECLIPSE



Eclipse/H down



Eclipse/H up



SWITCH INSTANTLY BETWEEN 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.

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 6.

Full details available at: www.draperinc.com/go/Eclipse.htm

Eclipse/V U.S. Patent No. 5,523,880

SILHOUETTE SERIES

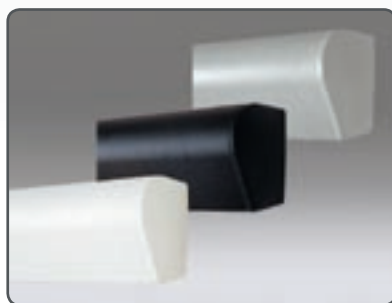
WITH A HIGH-TECH APPEARANCE



Silhouette/Series M



Silhouette/Series C



FEATURES

- The Silhouette's case conceals everything: mounting fixtures, fasteners, and even the dowel retracts inside the 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 M—is spring-roller operated. Your choice of a conventional viewing surface: 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 10 for more on the benefits of Tab Tensioning.*

OPTIONS

- **AutoReturn Roller**—The screen unrolls in the conventional manner, then slowly and gently retracts after a simple tug on the handle. *See lower left for more details.*
- **Case Finishes**—Choose a white (standard), black or dove grey lightly textured finish (*see samples shown on the left*)
- **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.

SIZES AND FORMATS

AV Format from 50" x 50" to 96" x 96"

NTSC Format from 6' to 10' diagonal

HDTV Format from 65" to 106" diagonal

16:10 Format from 67" to 109" diagonal

WideScreen Format in 99" or 108" diagonal

Custom sizes available.

Full details available at:

www.draperinc.com/go/SilhouetteM.htm

www.draperinc.com/go/SilhouetteC.htm

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

AUTORETURN

INTRODUCING AN IMPORTANT NEW IMPROVEMENT IN SPRING ROLLER DESIGN

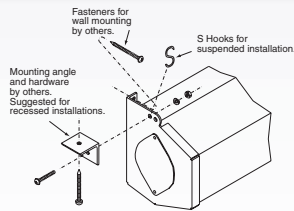
Now available as an optional upgrade on selected models of Draper wall- and ceiling-mounted screens, the AutoReturn spring roller includes a built-in inertia reduction mechanism. With AutoReturn the screen unrolls in the conventional manner, then slowly and gently retracts to the closed position on its own after a simple tug on the handle. AutoReturn is available on **Salara/Series M, Silhouette/Series M, Access/Series M, Luma 2, and Luma.**

Patent Pending.



PREMIER/SERIES C

CRANK-OPERATED WITH TENSIONING



FEATURES

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 10 for more benefits of Tab Tensioning.*

OPTIONS

- **Extra Drop**—Up to 12' overall height, either white or black (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.

SIZES AND FORMATS

AV Format from 50" x 50" to 12' x 12'

NTSC Format from 6' to 15' diagonal

HDTV Format from 92" to 161" diagonal

WideScreen Format from 99" to 162" diagonal

Custom sizes available.

Full details available at:

www.draperc.com/go/PremierC.htm

ARTISAN/SERIES M

HAND-CRAFTED TO COMPLEMENT YOUR ROOM FURNISHINGS



FEATURES

Artisan Series projection screens are enclosed in solid hardwood cases to complement the fine furniture in your conference room. Your choice of a conventional viewing surface: Matt White, Glass Beaded or High Contrast Grey.

OPTIONS

- **Case Styles**—Choose one of four case styles, available in several hardwoods and laminate finishes. *Refer to page 15.*
- **Extra Drop**—In white or black (white is standard on AV format; black for all others). Up to 8' overall height.
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other formats.

SIZES AND FORMATS

Available in the same sizes and formats as motorized Artisan screens—Refer to page 15.

Full details available at:

www.draperc.com/go/ArtisanM.htm

LUMA 2

HEAVY DUTY SPRING ROLLER SCREEN



Luma 2/R with Floor Stand

FEATURES

- 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; suspend under ceiling or recess above ceiling with optional Ceiling Opening Trim Kit (*see page 16 for details*).
- Matt White, Glass Beaded and High Contrast Grey viewing surfaces available. Includes pull cord.



OPTIONS

- **AutoReturn Roller**—The screen unrolls in the conventional manner, then slowly and gently retracts after a simple tug on the handle. *See page 32 for more details.*
- **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 35.*
- **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. 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.

SIZES AND FORMATS

AV Format from 50" x 50" to 12' x 12'

NTSC Format from 100" to 15' diagonal

HDTV Format from 92" to 161" diagonal

16:10 Format from 94" to 165" diagonal

WideScreen Format from 99" to 162" diagonal

Custom sizes available.

Full details available at:

www.draperinc.com/go/Luma2.htm

LUMA

PENTAGONAL-SHAPED CASE FOR WALL-OR CEILING-MOUNTING



DePauw University, Greencastle, IN. Photographer:
Wayne Williams, Indianapolis, IN

FEATURES

- 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: Matt White, Glass Beaded or High Contrast Grey.



OPTIONS

- **AutoReturn Roller**—The screen unrolls in the conventional manner, then slowly and gently retracts after a simple tug on the handle. *See page 32 for more details.*
- **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. Shown at lower left.
- **Pull Cord**—For sizes 70" wide and larger, a pull cord is included.

MOUNTING ACCESSORIES

PROJECTED MOUNTING BRACKETS

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

Adjustable Brackets

- ① **18"-24" Brackets**—Extend screen 18¼", 20" or 24" from wall by selecting one of two mounting positions and adding our extension arm as shown. For V Screen, Star, and Luma (all sizes); Luma 2 through 8' wide.



Non-Adjustable Brackets

- ② **10" or 14" Brackets**—Screen can be extended 10" or 14" from wall by selecting one of two mounting positions. For V Screen, Star, and Luma (all sizes); Luma 2 through 8' wide.
- ③ **6" Brackets**—Extend screen 6" from wall with one mounting position. For all sizes of V Screen, Star, Luma, Luma 2, Silhouette, Premier, and Targa (except Premier and Targa with large style cases).



T-BAR TWIST CLIPS

- ④ Mount screens directly to T-irons supporting suspended ceilings—without tools. For V Screen (all sizes); Luma and Star through 70" wide.



SIZES AND FORMATS

AV Format

from 50" x 50" to 96" x 96"

NTSC Format

from 6' to 10' diagonal

HDTV Format

from 65" to 106" diagonal

16:10 Format

from 67" to 109" diagonal

WideScreen Format

in 99" or 108" diagonal

Custom sizes available.

Full details available at:

www.draperinc.com/go/Luma.htm

STAR

ECONOMY AND DURABILITY IN A STURDY, RELIABLE CLASSROOM SCREEN



FEATURES

Durable construction, attractive design—at an economical price. Sturdy, cylindrical, white steel case measures only 3 $\frac{1}{8}$ " high by 2 $\frac{3}{4}$ " wide. White endcaps form universal hanging brackets for attachment to wall or ceiling. Tear-proof, flame retardant Matt White offers a sharp image from any angle.



Available in AV Format from 50" x 50" to 84" x 84". Custom sizes available by quotation.

OPTIONS

- **Extra Drop**—Up to 84" overall height, either white or black (white is standard).
- **Black Masking Borders**—Available 1 $\frac{1}{2}$ " wide in sizes through 70" x 70"; 2" wide in larger sizes.
- **Pull Cord**—Included for sizes 70" wide or more.
- **Projected Mounting Brackets**—available in 6", 10" and 14" fixed, and 18 $\frac{1}{4}$ "–24" adjustable. See page 35.

Full details available at:

www.draperinc.com/go/Star.htm

V SCREEN

THE ONLY SCREEN WITH A 5-YEAR WARRANTY



★★★★★ 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.

FEATURES

The V Screen offers extremely durable construction at very reasonable prices. Through simplicity of design, the V Screen has the longest life expectancy of any classroom screen.



- Tear-proof Matt White viewing surface with high-tech fabric attachment that prevents fabric from pulling off roller.
- Patented design eliminates friction between viewing surface and metal parts.
- Available in AV Format from 40" x 40" to 108" x 108". Custom sizes available by quotation.

OPTIONS

- **Pull Cord**—For sizes 70" wide and larger, a pull cord is included.
- **Projected Mounting Brackets**—6", 10" and 14" fixed, and 18 $\frac{1}{4}$ "–24" adjustable. See page 35.
- **T-Bar Twist Clips**—Mount to "T" irons in drop ceiling.

Full details available at:

www.draperinc.com/go/VScreen.htm

SALARA/SERIES M

YOU'VE NEVER SEEN A SCREEN
LIKE THIS BEFORE



FEATURES

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: Matt White, Glass Beaded or High Contrast Grey.



OPTIONS

- **AutoReturn Roller**—The screen unrolls in the conventional manner, then slowly and gently retracts after a simple tug on the handle. *See page 32 for more details.*
- **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.

SIZES AND FORMATS

AV Format from 50" x 50" to 96" x 96"

NTSC Format from 6' to 10' diagonal

HDTV Format from 65" to 106" diagonal

16:10 Format from 67" to 109" diagonal

WideScreen Format in 99" or 108" diagonal

Custom sizes available by quotation.

Full details available at:

www.draperinc.com/go/SalaraM.htm

EVENROLL ROPE-AND-PULLEY

SIMPLE AND ECONOMICAL FOR
LARGE AUDIENCES



FEATURES

Evenroll 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 Matt White or Glass Beaded viewing surface. Available in AV Format from 7' x 14' to 30' x 30' in size.

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.

Full details available at:

www.draperinc.com/go/Evenroll.htm

ACCESS/SERIES M

INSTALL THE CASE NOW AND
THE SCREEN LATER



FEATURES

The Access is the most versatile ceiling-recessed screen on the market. No other projection screen lets you install the case during construction and the viewing surface at a later date to eliminate job site damage. *See page 6 for details.* Access/Series M is a spring-roller operated screen with your choice of viewing surface: Matt White, Glass Beaded or High Contrast Grey.

Available in **AV Format** from 50" x 50" to 96" x 96"; **NTSC Format** from 6' to 10'; **HDTV Format** in 92" and 106"; and **WideScreen Format** in 99" and 108".

OPTIONS

- **AutoReturn Roller**—The screen unrolls in the conventional manner, then slowly and gently retracts after a simple tug on the handle. *See page 32 for details.*
- **Extra Drop**—Up to 12' overall height, either white or black (white is standard in AV format; black for others).
- **Black Masking Borders**—Optional in AV format, standard for other formats.
- **Aluminum Operating Pole**—Choice of two sizes: 4' and 6'. Use in place of the factory-furnished pull cord.

Full details at: www.draperinc.com/go/AccessM.htm



APEX

THE FIRST SPRING-ROLLER SCREEN WITH
AUTOMATIC CEILING CLOSURE



Unocal, Stafford, TX. Dealer: CCS Presentation Systems, Houston, TX.
Photography: © Barry Champagne, Houston, TX.

FEATURES

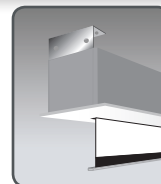
The Apex is the first manually operated screen expressly designed for concealed installation. Extruded aluminum case installs above the ceiling. The Apex features a white closure panel at the bottom of the screen surface which seals the ceiling opening when the screen is retracted. Trim flange surrounds 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: Matt White, Glass Beaded or High Contrast Grey.

Available in **AV Format** from 50" x 50" to 96" x 96"; **NTSC Format** from 6' to 10'; **HDTV Format** in 92" and 106"; and **WideScreen Format** in 99" and 109". Custom sizes available by quotation.

OPTIONS

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

Full details: www.draperinc.com/go/Apex.htm



STAGESCREEN

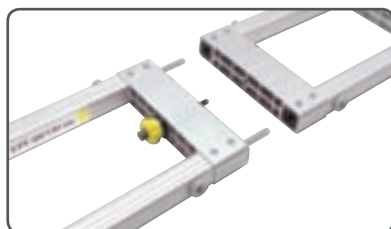
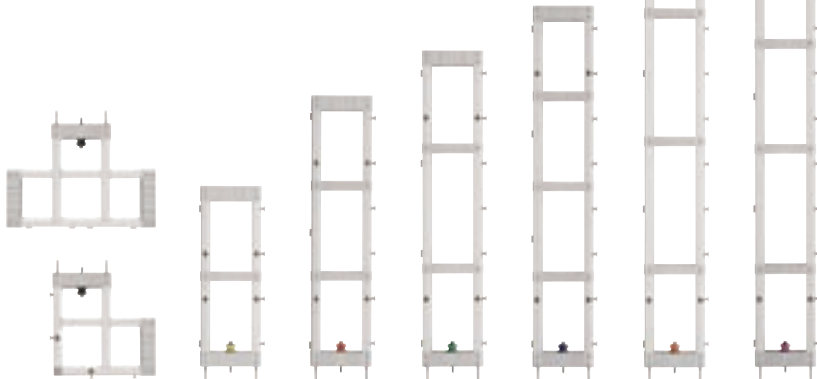
THE FIRST PROJECTION SCREEN DESIGNED SPECIFICALLY TO BE FLOWN



Montgomery Performing Arts Center, Montgomery, AL.
Dealer: Technical Innovation, Birmingham, AL. Photography © Ed Wolkis, Atlanta, GA.



2009 Canadian Country Music Awards, Vancouver, BC.
Dealer: Midnite Hour, Toronto, ON. Photography © Karel Noordover, Toronto, ON.



FEATURES

Intended for stages, lecture halls, and other large venues, the StageScreen is a totally new concept in projection screen design. It was engineered specifically to be flown, wall mounted, or can stand on its own legs.

It is the strongest and most rigid screen on the market. The truss system is completely modular. All available sizes of StageScreen and optional legs are built from combinations of the same 6 standard color-coded frame sections pictured at lower left.

The StageScreen utilizes an 8" (20cm) truss that is significantly stronger than other permanently tensioned screens. It is engineered to hold tolerance after repeated usage. Color coded frame sections ensure fast and easy assembly.

No hinges, no snaps, and no Handy Cranks are involved. Frame sections are connected with permanently attached threaded links and guide pins. Each frame segment is clearly labeled and color-coded.

StageScreen features a revolutionary new viewing surface attachment method. Using the attached DuraLoop™ bungee cord loops with handy nylon pull-tabs, simply hook the surface to the posts on the frame. DuraLoops are longer lasting than traditional snaps, and provide even, self-centering tension for the viewing surface.

OPTIONS:

- **Viewing Surfaces**—Black-Backed M1300, M2500, HiDef Grey, or Cineflex rear projection surface.
- **Frame Finish**—Silver anodized (standard) or Black anodized.

SIZES AND FORMATS

NTSC Format from 6' x 8' to 30' x 40'

HDTV Format from 5⁵/₈' x 10' to 22¹/₂' x 40'

16:10 Format from 5' x 8' to 25' x 40'

Multi-Format from 12' x 40' to 18' x 60'

Custom sizes available by quotation.

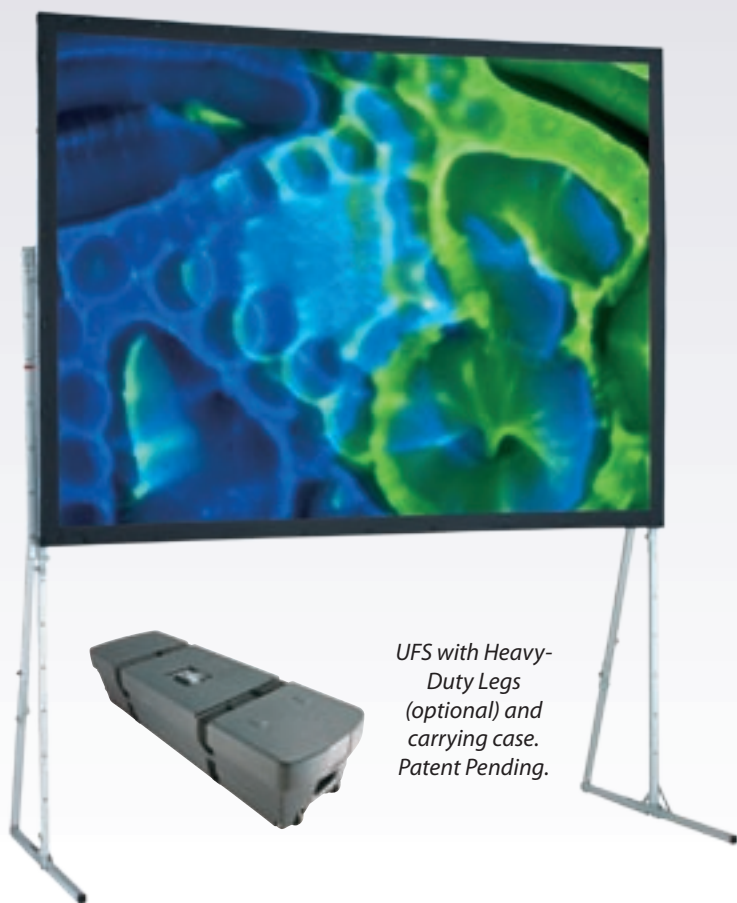
Full details available at:

www.draperinc.com/go/StageScreen.htm

Multiple Patents Pending.

ULTIMATE FOLDING SCREEN

THE WORLD'S MOST PRECISELY MANUFACTURED FOLDING SCREEN



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

Lock & Load Latch Open



Lock & Load Latch Closed



Corner Hinge Closed



Corner Hinge Open



STAGEHAND

The Draper StageHand allows one person to set up most folding screens. Consists 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 you 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.



StageHand comes in two sizes to fit either the Ultimate Folding Screen or the Cinefold (page 41). It telescopes from 65" to 120" in length, and is suitable for use with screens in sizes through 7'6" x 10'.

FEATURES

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 41.)

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.

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'.

SIZES AND FORMATS

Square Format from 6' x 6' to 12' x 12'

NTSC Format from 54" x 74" to 144" x 196"

HDTV Format from 56" x 96" to 112" x 196"

16:10 Format from 50½" x 80¾" to 106½" x 170½"

Slide Format from 48" x 72" to 96" x 144"

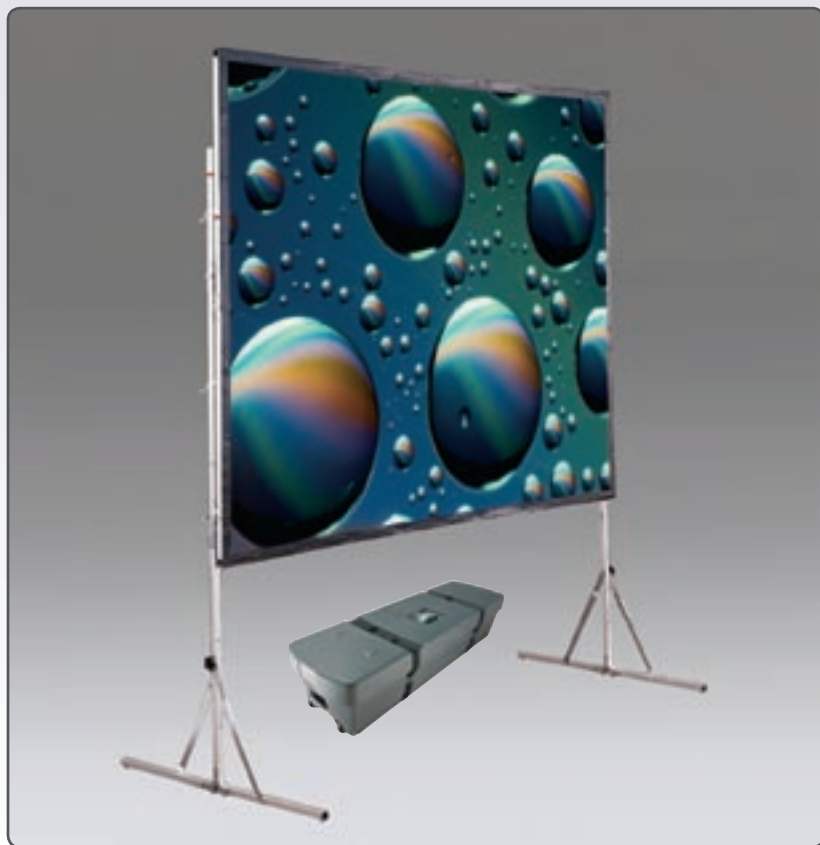
Custom sizes available by quotation.

Full details available at:

www.draperinc.com/go/UFS.htm

CINEFOLD

THE ORIGINAL FOLDING SCREEN IN A WHEELED CASE



❶ **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.

❷ **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.



❸ **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.

❹ **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.



FEATURES

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.

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.
- **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.

SIZES AND FORMATS

Square Format from 5' x 5' to 12' x 12'

NTSC Format from 47" x 60" to 10'6" x 14'

HDTV Format from 56" to 96" to 83" x 144"

Slide Format from 4' x 6' to 8' x 12'

Custom sizes available by quotation.

Full details available at:

www.draperinc.com/go/Cinefold.htm

TRUSS-STYLE CINEFOLD

FOR LARGER-THAN-LIFE PRESENTATIONS



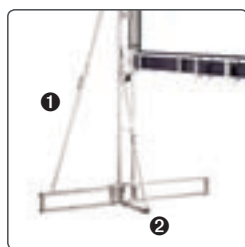
L-Brace—All Cinefolds over 25' wide feature a brace consisting of a full-width truss attached to the top of the frame at right angles to the screen. Adds strength and prevents sagging.



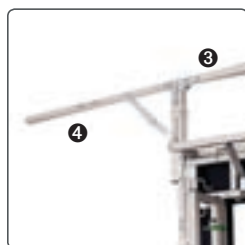
Handy Cranks—These $\frac{5}{16}$ " dia. crankbolts provide quick assembly without tools for both the Cinefold and Truss-Style Cinefold.



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 ③ and valance bar ④ 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.

FEATURES

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.

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 $\frac{5}{8}$ " W x 84 $\frac{1}{8}$ " 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. See page 43 for details.

SIZES AND FORMATS

Square Format from 9' x 9' to 13' x 13'

NTSC Format from 7' x 9' to 19' x 25'

HDTV Format from 10' x 17' to 14'6" x 25'

Custom sizes available by quotation.

Full details available at:

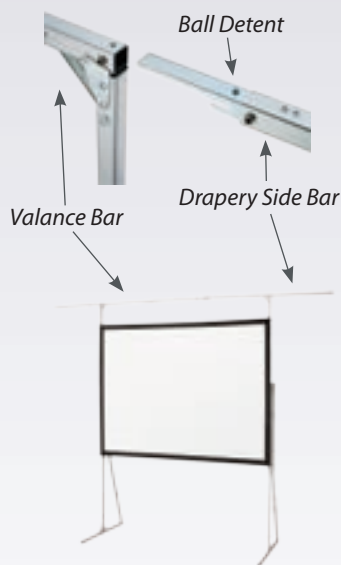
www.draperinc.com/go/TrussCinefold.htm

DRESS KITS FOR FOLDING SCREENS

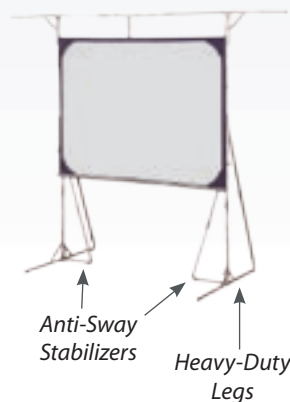
GIVES A PROFESSIONAL APPEARANCE TO UFS, CINEFOLD, AND TRUSS-STYLE CINEFOLD



The valance bar attaches to the top of the Ultimate Folding Screen frame. Two drapery side bars slide easily into each end of the valance bar and lock with a ball detent.



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.



At left: Black velour Dress Kit attached to a Truss Cinefold. Above: Rear view of Truss Cinefold with Valance Bar and Drapery Side Bars.

FEATURES

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.

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.
- **Inherently Flame Retardant (IFR) Velour**—**NEW!** IFR Velour is washable, and requires no retreating—it is fire-retardant for the life of the material. 15% lighter than standard Velour.
- **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 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.

Full details available at:
www.draperinc.com/go/DressKits.htm

DRESS KITS FOR STAGESCREEN

GIVES A PROFESSIONAL APPEARANCE TO THE STAGESCREEN



Skirt partially attached.



Skirt attached with DuraLoop and magnetic fasteners



Universal valance bars. Valance attaches with DuraLoops to top posts.

FEATURES

Create a polished theatre-like presentation with a StageScreen 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 resistant, meeting fire safety codes, and now are available in Inherently Flame Retardant (IFR) Velour. 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.

Like the StageScreen itself, the StageScreen Dress Kit is modular and universal for any size screen. Extendable wing bars and unique valance bars attach to the StageScreen's viewing surface posts around the perimeter of the screen. The skirt utilizes DuraLoops™ on each end, in addition to revolutionary magnetic connectors built into the skirt for surprisingly fast and easy attachment.

Extendable wing bars adjust curtain level to the height of the screen or to the top of the valance. Valance bars can be used for any screen width. They simply attach every 18" to the top of the screen frame. The valance fabric and side curtains are equipped with the built-in DuraLoops.

A complete Dress Kit includes a 68" tall skirt, 14" tall valance and universal valance bars, and a pair of 32" wide side drapes and adjustable drapery bars.

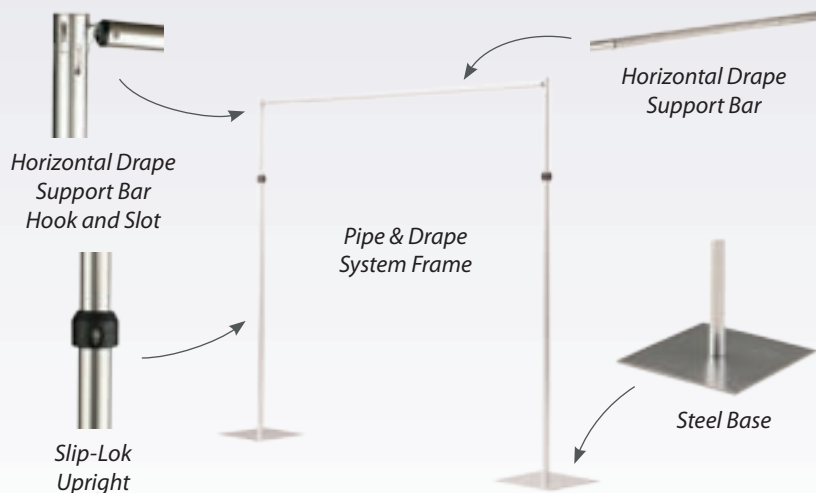
OPTIONS

- **Fabric**—13.4 oz. IFR velour (Inherently Flame Resistant Velour) is offered in black (standard), 16 oz or 20 oz Cotton Velour available upon request (Black or Navy)
- **Carrying Case**—A wheeled heavy-duty polyethylene carrying case is standard for all StageScreen Dress Kits.

Full details available at:

www.drapersinc.com/go/StageScreen.htm

PIPE AND 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. This free-standing modular system can be assembled in minutes to virtually any size or configuration—without tools. Also suitable 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.
- **Inherently Flame Retardant (IFR)**
Velour—**NEW!** IFR Velour is washable, and requires no retreating—it is fire-retardant for the life of the material. 15% lighter than standard Velour.
- **Vellite**—Lightweight brushed polyester. Black or rich navy.
- **Classic Twill**—Lightweight polyester with special weave to reduce wrinkling and subdued luster. Black or rich navy. Additional custom colors are available.
- **Poly-Knit**—Lightweight smooth polyester. Black or rich navy.

COMPONENTS

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.

3-Piece Upright—**NEW!** Extends from 7' to 17' to quickly and easily adjust your drapery to the height you want with minimal effort. Uses the same tough construction as other Draper uprights.

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.

While others manufacture portable screens with damage-prone Mylar, Draper's high-quality, low-cost Piper has a tear-proof 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.

SIZES AND FORMATS

NTSC Format from 60" to 84" diagonal

HDTV Format from 55" to 77" diagonal

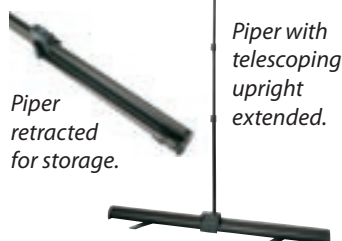
Custom sizes available by quotation.

Full details available at:

www.draperinc.com/go/Piper.htm



Piper open and ready for the show.



Piper retracted for storage.

Piper with telescoping upright extended.

ROADWARRIOR



Detachable
shoulder strap
included.



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 help position the screen at just the required height. Set it 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.

- **Viewing Surfaces**—Choose from Matt White, Glass Beaded or High Contrast Grey.
- **Padded Carrying Case**—Draper's Padded Carrying Case will protect your screen from life's hard knocks. Constructed of 1/2" 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.
- **Available Sizes**— NTSC Format (60" or 80" diagonal) or HDTV Format (55" or 73" diagonal).

Full details available at:

www.draperinc.com/go/RoadWarrior.htm

TRAVELLER



Optional Padded
Carrying Case for
RoadWarrior and
Traveller

Traveller offers a wider range of sizes than RoadWarrior. Compatible with resolutions up to 1200 x 1600 and beyond, its tear-resistant Matt White screen surface is designed for high resolution, a broad viewing cone and accurate color rendition. Viewing surface has 3/4" black borders on the vertical sides and is supported at the top by a 7/8" black aluminum dowel with a full-width slat saddle.

Easy set up—just place it on the floor or table. Rotate feet into position. Release two clasps to open the lid. Raise screen to desired height. Secure the top dowel to the infinitely adjustable telescoping support that locks the screen to the desired height. Includes 42" of black "rise" below the image area.

- **Viewing Surfaces**—Choose from Matt White, Glass Beaded and High Contrast Grey.
- **Padded Carrying Case**—Draper's Padded Carrying Case will protect your screen.
- **Available sizes**—NTSC Format from 50" to 100" diagonal or HDTV Format from 46" to 92" diagonal.

Full details available at:

www.draperinc.com/go/Traveller.htm

DIPLOMAT

BUILT-IN KEYSTONE ELIMINATOR



Keystone Eliminator



Bell Leg Lock



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

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: Matt White, Glass Beaded or High Contrast Grey.

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**—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.
- **Available Sizes**—AV Format from 50" x 50" to 96" x 96", and NTSC Format from 6' to 10' diagonal.

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

CONSUL

QUALITY AND ECONOMY



Lightweight yet durably constructed, the Consul is designed specifically for audiovisual use. 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. Your choice of viewing surfaces: Matt White or Glass Beaded.

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.
- **Keystone Eliminator**—Extends top of viewing surface up to 9".
- **Available Sizes**—AV Format from 40" x 40" to 70" x 70".



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

LUMA 2/R

Large Pull-Up Portable Screen
See page 34.



REAR PROJECTION SCREENS

FROM THE ACKNOWLEDGED LEADER IN THE MOST DEMANDING AREA OF THE INDUSTRY COME 5 UNIQUE REAR SCREENS

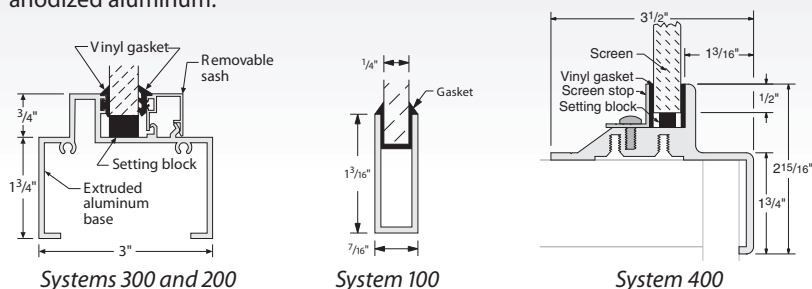


*Telus House conference room—Ottawa, Ontario. LEED® Silver Certified.
Photography © Ron de Vries—Toronto, Ontario*

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—Simplifies your installation. Slide the screen into the rough opening and bolt into place. No finish carpentry required. $\frac{1}{4}$ " wide dress trim hides the opening. The audience only sees an attractive frame around a rear screen. Black finish.

System 300—Adds $4\frac{1}{4}$ " to overall size of screen; reduces clear image area by 1" in each dimension. Black or clear anodized finish.

System 200—Same sturdy design as the System 300, extruded to a slightly thinner wall. Black or clear anodized finish.

System 100—Simple, clean frame for smaller rear screens. Adds $\frac{1}{4}$ " to overall height and width of screen; reduces clear image area by $\frac{7}{8}$ " in each dimension. 100" diagonal. Black or clear anodized finish.

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 five 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 50.*

- **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. DiamondScreen HC now available by quotation. This low-gain, high-contrast version of the DiamondScreen is for use with today's bright projectors. *Page 51.*

- **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 51.*

- **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 52.*

- **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.

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 online at:
www.draperinc.com/go/RearScreens.htm

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 53-54 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 51 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 51.)

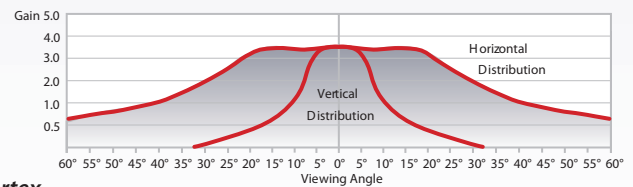
The IRUS provides outstanding uniformity and legibility with projectors of all types. This screen was designed specifically to meet the resolution needs of SXGA, UXGA and higher projectors. (See page 52.)

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 50 for details.)

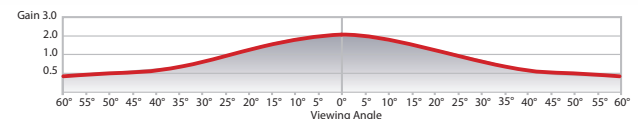


RPX Complete with IRUS screen and Mirror Manager at University of Texas-El Paso. Shown here pulled away from wall for photography. Photography © Graham Hobart, Dallas, TX.

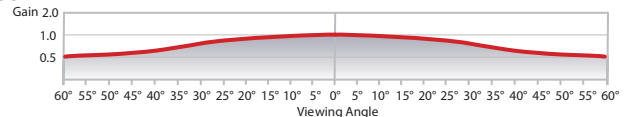
DiamondScreen



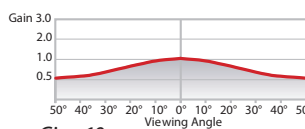
Vortex



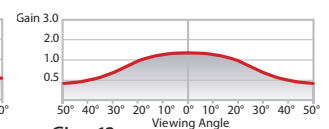
IRUS



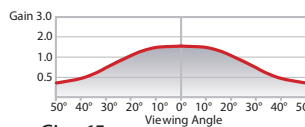
Cinescreen Optical Coatings



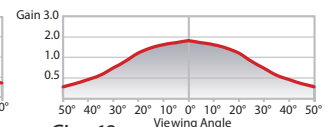
Cine 10



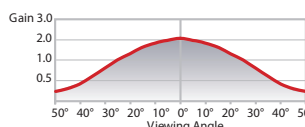
Cine 13



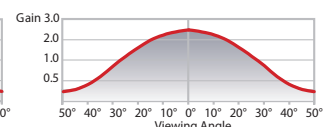
Cine 15



Cine 18



Cine 20



Cine 25

CINESCREEN®

DRAPER'S OPTICAL COATINGS AND TINTS

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:

- 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 or short-throw lenses.
- **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 18¹**—For medium to wide-angle viewing, with on-axis gain of 1.8. Suitable for all projection formats, including video.
- **Cine 20¹**—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 25¹**—Suitable for narrow viewing cones and lower output projection formats. On-axis gain of 2.5. Good image resolution, color reproduction.

¹ 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 48). 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.



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 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 for projectors 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.

Full details available at:

www.draperinc.com/go/Cinescreen.htm

DIAMONDSCREEN™

THE BRIGHTEST REAR PROJECTION SCREEN IN THE WORLD

DiamondScreen™—the first rear projection screen designed specifically to address brightness uniformity. 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 HC

DiamondScreen HC is available by quotation. This 1.5 gain, high-contrast version of the DiamondScreen is for use with the very brightest projectors or special VideoWall applications.

Full details available at: www.draperinc.com/go/Diamondscreen.htm



VORTEX

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 VideoWalls, it is an excellent choice for most single screen applications.

The 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

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

The Vortex is available in sizes up to 120" wide.

When framing a single screen, select Draper's System 100, 200 or 400. *See details on page 48.* For multiple screens or VideoWall applications, our Zero Edge, Clear Lexan® or System 200 VideoWall Framing Systems are compatible.

Full details available at: www.draperinc.com/go/Vortex.htm



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 resolutions 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. 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 1/4" acrylic substrate
- 1.0 gain across a 180° viewing cone
- Sizes up to 120" diagonal NTSC or 110" HDTV.
- Ideal for high resolution displays

INSTALLATION

When framing a single screen, select Draper's System 100, 200 or 400 framing systems (*see page 48*).

For multiple screens or VideoWall applications, our Zero Edge, Clear Lexan® or System 200 VideoWall Framing Systems are compatible (*see page 57*).

Full details available at: www.draperinc.com/go/IRUS.htm



VIDEOCONFERENCING 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 7/8" high x 16 3/8" 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.
- Locking door available.

Full details available at:

www.draperinc.com/go/VCCameraBox.htm



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 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 54*).
- **RPX Precision**—an RPX plus a precise Alignment Platform (*described on page 54*) 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 54*).

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:

www.draperinc.com/go/RPX.htm

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.

DRAPER RPX—REAR PROJECTION SYSTEM

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.

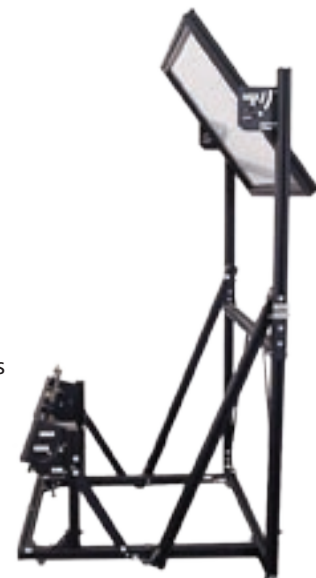


Alignment platform back



Alignment platform front

The RPX/Precision with Alignment Platform can be adjusted in all six axes. Also available with Projector Support Structure and MultiScreen System. See page 56.



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.

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, MultiScreen Systems and Projector Support Structures, all designed specifically for your projection requirement (see page 55-56).

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.

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.



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 53.

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 58¾" x 56"	48"
84"	102½" x 68½" x 60"	50¾"
90"	106½" x 74¾" x 64"	50¾"
96"	110½" x 79" x 68"	50¾"
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.



FLAT PANEL WALL

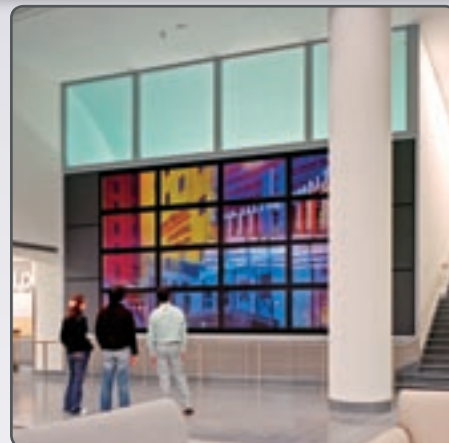
OFFERING UNIQUE SOLUTIONS FOR TODAY'S FLAT PANEL MONITORS

A multi-screen Flat Panel Wall System from Draper makes communication easy. Our unique systems can hold any number and size of flat panel monitors, WITHOUT the need for rear access. Deliver a clear and powerful message with a quality Flat Panel Wall System from Draper.

- As little as 2.0 mm separation between each monitor.
- Cooling systems to meet flat panel manufacturer's airflow requirements.
- A monitor support structure custom-built of extruded aluminum or steel that can be built to hold any number and size of flat panel monitors.
- Offered in three unique mount styles, depending on available space behind flat panel displays (keyhole mount, door mount and drawer slide mount). Flat Panel Wall Systems may require as little as 6" depth.
- Drawer slide mounting offers unique push-and-release mechanism from audience side: push on the flat panel to release lock, and pull the monitor forward for adjustment or replacement. This unique Draper system offers the best wall alignment in the industry.

Once installed, each monitor can be manually adjusted for proper fit to the support structure, and individually accessed for quick repairs or adjustments.

Full details available at: www.draperinc.com/go/FlatPanelWall.htm



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 FreemanWhite, Charlotte, NC. Photographer: 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. 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.

Full details available at: www.draperinc.com/go/MultiScreenSystem.htm



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 55.)

Full details available at: www.draperinc.com/go/ProjectorSupportStructures.htm



CUSTOM VIDEOWALL FRAMING SYSTEMS

ESSENTIAL TO OUR SUPERIOR VIDEOWALL DESIGN

Multiple rear screen VideoWalls 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 VideoWalls 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 VideoWall 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 VideoWall application.

Draper offers three VideoWall 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 VideoWall modules may be installed in-wall or can be incorporated in a freestanding Draper MultiScreen System. Panoramic or tilted VideoWalls 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 VideoWalls are possible with Clear Lexan® frames. *U.S. Patent No. 6,296,214. Lexan® is a registered trademark of DuPont.*

SYSTEM 200 VIDEOWALL FRAMING SYSTEM

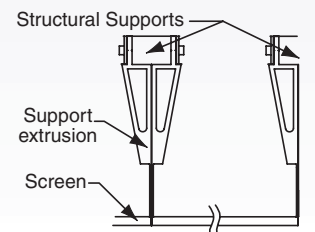
Offers maximum flexibility of design and structural integrity while accommodating rear screens of any size. Completely unitized for perfectly uniform contiguous images regardless of the number of screens or tiers in the array. The manufacturing and assembly of complex panorama radius VideoWalls is executed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

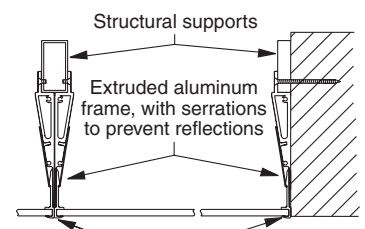
Full details available at: www.draperinc.com/go/VideoWall.htm



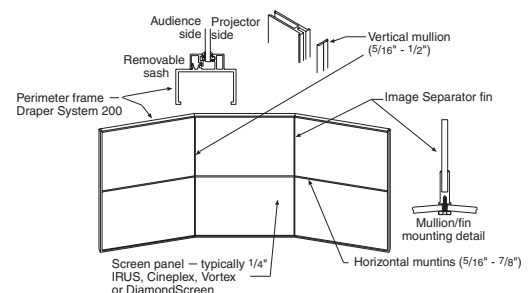
*Texas Department of Transportation, Dallas, TX.
Dealer: CCS Presentation Systems, Houston, TX.
Photography © Scott Williams, Dallas, TX.*



Zero-Edge videowall frame



Clear Lexan mullions and muntins support screens with minimum separation



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.

Full details available at: www.draperinc.com/go/Easels.htm



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.

DRAPER EASEL MODELS

PAPER PAD EASELS

Quality, durable Paper Pad Easels available in both DR and OP Series (see page 58 for details). Draper Paper Pad Easels offer a 28" x 38" panel to accommodate all standard easel paper pads. They fold from 70" height to a compact 28" x 38" x 2". Finished in tough epoxy powder coat or attractive brushed anodized aluminum.

WRITING SURFACE EASELS

All the quality and convenience of Draper Paper Pad Easels, plus a built-in white porcelain on steel writing surface. Available in both DR and OP Series (see page 58). The surface is smooth, framed on all four sides and have 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.

HEAVY-DUTY PAPER PAD AND WRITING SURFACE EASELS

The world's toughest easels, 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.

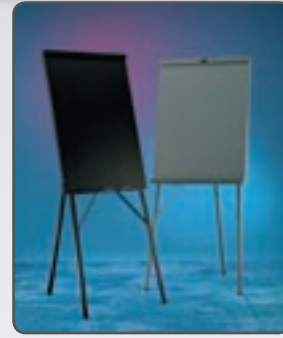
POSTER EASELS

Lightweight yet rugged tripod easel can be used for posters or paper pads. Hinged chart holders are attached to sturdy aluminum legs at four different heights for poster display. Spring-Loaded Chart Clamp (standard on select models) attaches without tools, accommodates standard easel paper pads.

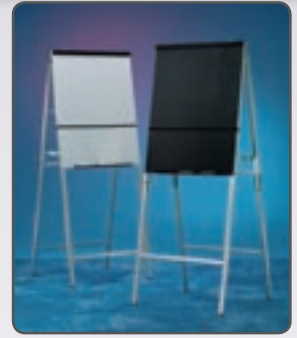
Decorative Poster Easels—Make an impression in hotel and restaurant lobbies, art galleries, museums, theatres—even shopping malls. Just under 5' tall, this solid brass easel is fully lacquered to prevent tarnishing.

Model	Description	Net Wt. (lbs.)
Paper Pad Easels		
OP400	Grey Epoxy Powder Coat	12
OP450	Black Epoxy Powder Coat	12
DR400	Grey Epoxy Powder Coat	12
DR450	Black Epoxy Powder Coat	12
DR500	Silver Anodized	12
DR550	Gold Anodized	12
Heavy-Duty Paper Pad Easels		
DR890	Silver Anodized Non-Folding A-Frame	19
DR895	Silver Anodized Folding [†] A-Frame Easelfold	20
Writing Surface Easels		
OP850	White Porcelain/Black Epoxy Powder Coat	21
DR800	White Porcelain/Gold Anodized	21
DR850	White Porcelain/Black Epoxy Powder Coat	21
DR650	Black Epoxy with Powder Coat Whiteboard	13
Heavy-Duty Writing Surface Easels		
DR990	Silver anodized Non-Folding A-Frame with Powder Coat Whiteboard	19
DR995	Silver anodized Folding [†] A-Frame with Powder Coat Whiteboard	20
Poster Easels		
DR150	Decorative Brass	4
DR200	5' Non-Folding/Gold Anodized	4
DR205	5' Non-Folding/Black Epoxy Powder Coat	4
DR220	6' Non-Folding/Gold Anodized	5
DR225	6' Non-Folding/Black Epoxy Powder Coat	5
DR250	6' Folding/Gold Anodized	6
DR270	6' Folding/Black Epoxy Powder Coat	6

[†]Folding legs allow the entire unit to fold to a compact 6" x 29" x 39".



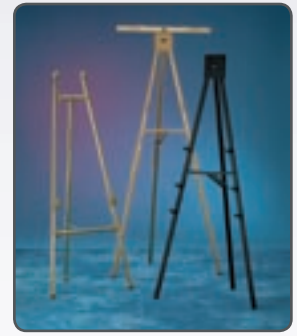
OP450 and DR400



DR990 and DR895



DR800 and DR650



DR150, DR250, and DR205

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.

Easel Carrying Cases—Black, PVC-backed 600-denier polyester carrying case.

Easel Paper Pads—Standard 27" x 34" pads fit all Draper easels. High quality 16lb. white bond.



DRAPER—INNOVATIVE SOLUTIONS 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 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.

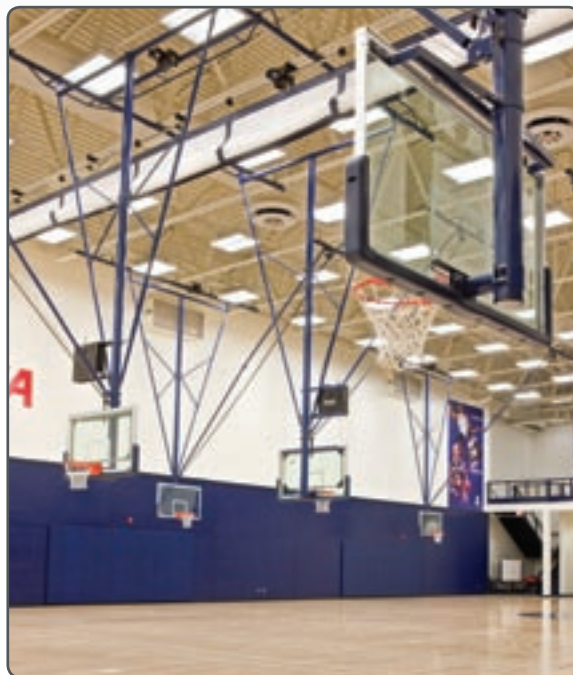
FlexShades provide glare control, heat control and room darkening anywhere windows or skylights are found. For the finest in sunlight control—ask for Draper FlexShades.

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.

Technical data, installation instructions and the most current specifications for Draper products can be found on the Internet at:
www.draperinc.com

Unless otherwise noted, all photos in this publication are © Draper, Inc..



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