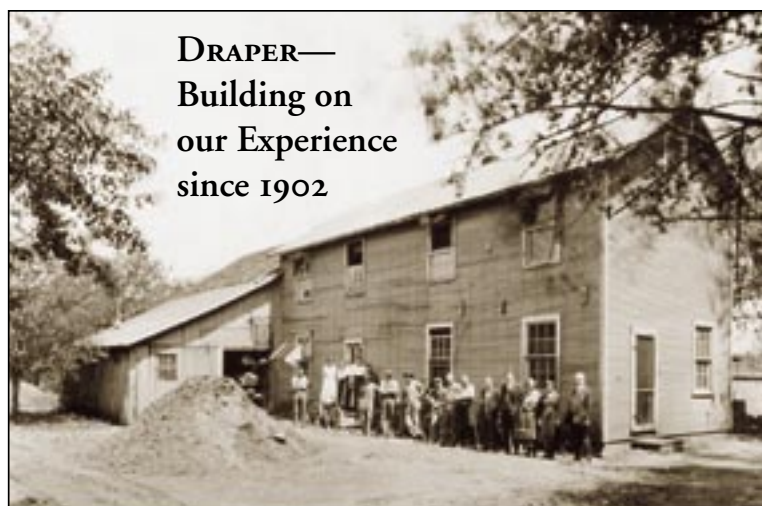


Projection Screens



DRAPER



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

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

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

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

This catalog features DRAPER's full line of products for international distribution, which includes—

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Screen Size Selection Guidelines

The following information applies to both front and rear screen installations. Planning a rear screen installation involves additional considerations: refer to page 20. Projector, room design, and other considerations may affect screen selection.

Audience Area: The goal is to make the screen large enough so that people in the back of the room can read the text easily. People in the front row also need to see the full width of the screen without turning their heads.

Height:

Type of images	Screen height
NTSC/PAL 4:3 movies and entertainment	At least $\frac{1}{6}$ the distance from the screen to the furthest seat
Charts and data	At least $\frac{1}{4}$ the distance from the screen to the furthest seat
Complex graphics	At least $\frac{1}{2}$ the distance from the screen to the furthest seat
HDTV	At least $\frac{1}{3}$ the distance from the screen to the best seat

Width: Calculate screen width based on the height of the screen and the projection formats to be used.

Ceiling height: The bottom of the screen should be approximately 100-120 cm (40"-48") above the floor so that all members of the audience can see. This rule may not apply in a tiered seating area or where there are only one or two rows of seats. In rooms with a high ceiling, extra "drop" (additional screen fabric) may be needed to lower the screen for comfortable viewing.

Projection format (relationship of height to width): Commonly used projection formats vary from 1:1 to 2.35:1 (see below). If only one projection format will be used, use it to calculate screen height. If more than one format will be used, screen dimensions must be adjusted accordingly.

Note: If you need to display slides both vertically and horizontally, DRAPER recommends a square screen.

1.00:1.00 Square	5:4 or 1.25:1.00 Data Graphics	4:3 or 1.33:1.00 NTSC/PAL	1.48:1.00 Horizontal 35mm Slides	16:9 or 1.78:1.00 HDTV	1.85:1.00 WideScreen	2.35:1.00 CinemaScope
Overhead and opaque projection	High-end data graphics/SXGA	Most LCD, DLP, CRT video and data-graphics projection	(or 3:2) 35 mm slides oriented horizontally	High Definition Television	Also known as Letterbox and Panavision	Motion pictures

Screen Surface Selection Guidelines

Surface Cleaning—Developing a cleaning schedule is recommended. See www.draperinc.com/screen_pages/screen_surface_definitions.htm for care and maintenance.

DRAPER offers two different types of projection screen surfaces—textile backed and unsupported vinyl.

Textile Backed—The reflecting surface of the front projection screen is laminated to a woven textile base which provides the necessary dimensional stability (stiffness) so the screen fabric will operate satisfactorily on a roller. Materials of this type are used on spring-roller operated and motorized projection screens. In either case, the screen surface hangs suitably flat by virtue of the dimensional stability of the material and the weight of the dowel in the bottom of the screen surface. DRAPER's FIBERGLASS MATT WHITE, HIGH CONTRAST GREY and GLASS BEADED are textile backed surfaces.

Textile-backed surfaces are commonly used for LCD, overhead and other single lens video projection, as well as for CRT video and data-graphics projection. Large textile-backed surfaces have inconspicuous horizontal butt seams.

Unsupported Vinyl—Surface consists of the vinyl reflective material only, with no textile backing. Transmissive rear projection surfaces are also available. These screen surfaces, whether for front or rear projection, need to be tensioned to achieve sufficient flatness to perform properly. DRAPER's FLEXIBLE MATT WHITE, M1300, M2500 and HiDEF GREY are unsupported vinyl surfaces.

DRAPER offers three types of screens with unsupported vinyl surfaces, all of which may be specified with front or rear projection surfaces—

- **Tab-tensioned**—motorized or crank operated screens with built-in surface tensioning systems.
- **Permanently tensioned**—screens which are permanently stretched on a frame, and usually wall mounted.
- **Portable**—folding screens.

Motorized Screen Controls

All DRAPER motorized screens except the BARONET are furnished with one standard 3-position 115V or 220V switch, as required ❶. The following controls are available options:

Multiple Station Controls—Similar to 3-position 115V or 220V switch ❶, but contains safeguards to prevent two signals from reaching the motor at the same time. The surface mounted "European" style switch is also available ❷.

Low Voltage Controls—Available with one or more attractive 3-button switches ❸. Control unit, without switches, is compatible with master control systems. It is equipped with jacks for connection with DRAPER RF or IR receivers. Wiring from control unit to switches is lightweight for 24-volt current.

Radio Frequency Remote Control—Hand-held transmitter, with 3-button control ❹. For use only with DRAPER low-voltage control units.

Infrared Remote Control—IR transmitter and receiver ❺. 3-button operation. Fully compatible with "learnable" IR master control systems. Must be ordered with DRAPER low-voltage control system, above.

MC1: New Low Voltage Option with RS232—Small and versatile. Enables IR, additional interface for dry contact closure and RS232. Ideal for Home Automation Integration. Programmable ❻.



Textile Backed Screen Surfaces

Fiberglass Matt White—Vinyl MATT WHITE with a woven fiberglass supporting base material. It is available for almost all roller-operated front screens. Projected images have excellent clarity and uniform brightness over a broad viewing cone. MATT WHITE surfaces are washable, flame and mildew resistant.

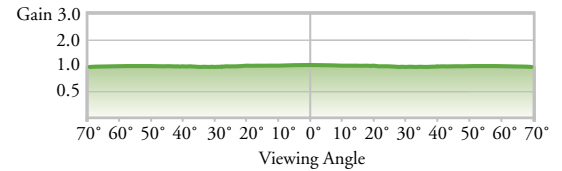
High Contrast Grey—Grey textile-backed surface offers excellent resolution while enhancing the blacks of LCD and DLP projected images, even as whites and lighter colors are maintained. Performs well in ambient light condition. Ideal for home theatre.

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 305 cm (10') high.

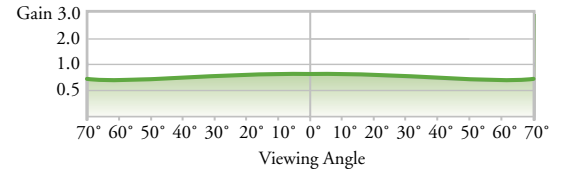
AT1200—A breakthrough in projection surfaces, AT1200 is acoustically transparent. With AT1200, it is possible to position a center channel speaker directly behind the screen, for full range performance of your audio system. Provides a flat viewing surface with no tensioning system. AT1200 is washable, flame and mildew resistant.

AT Grey—AT GREY offers the acoustical properties of our popular AT1200, while providing the best optical qualities of both MATT WHITE and HIGH CONTRAST GREY. Not recommended for screens smaller than 203 cm (80") wide when used with LCD or DLP projectors.

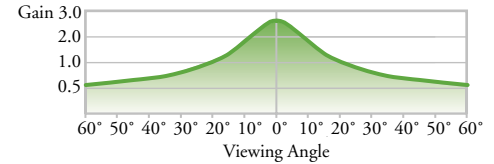
FIBERGLASS MATT WHITE, FLEXIBLE MATT & AT1200



HIGH CONTRAST GREY & AT GREY



GLASS BEADED



Unsupported Vinyl Screen Surfaces

Flexible Matt White—Pliable matt white material for use in our ULTIMATE FOLDING SCREEN and CINEFOLD portable folding screen. It can be stretched, folded and restretched repeatedly without damage.

M1300—100% vinyl stretchable matt white surface, with excellent clarity and uniform brightness over an extremely broad viewing angle. It is washable.

M2500—More than twice as bright as ordinary MATT WHITE, with a full 180° viewing cone, excellent contrast and resolution. Highly resistant to ambient light, it is ideal for video and data projection. Not recommended for projectors with light output above 1000 ANSI lumens.

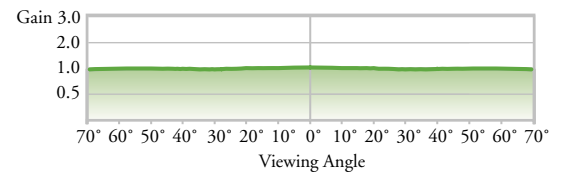
HiDef Grey—Grey front projection surface. HiDEF GREY is designed with a low gain of 0.8 to meet the demands of today's high-output video projectors. The grey color enhances color contrast and black levels in the projected image and also allows for more ambient light in the audience area than traditional surfaces. Ideal for home theatre.

Cineflex—A vinyl surface for rear projection. It is neutral grey in color. CINEFLEX has high resolution and excellent contrast, even in lighted rooms.

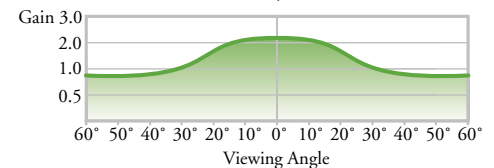
What is Gain?—Gain is a measure of brightness as compared to a block of magnesium carbonate, which serves as the industry's standard for gain of 1.0. A more familiar "real-world" comparison is with a matt white projection screen. Most matt white screens have a fairly uniform light distribution pattern with gain of approximately 1.0. Screens that appear brighter on axis are concentrating the reflected light in a narrower area: the gain may be 2.5 on axis but 0.5 at 60° to the side.

With today's brighter, high output projectors, gain is not as important as it once was, because the screen no longer has to make up for a lack of projector brightness. Other factors—such as color contrast and accuracy, uniformity, reproduction of black and the ability to perform with more ambient light in the audience area—are equally important.

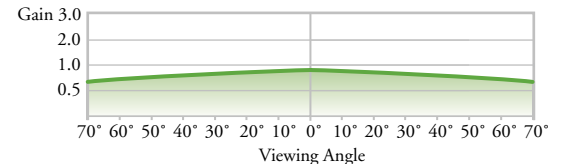
M1300



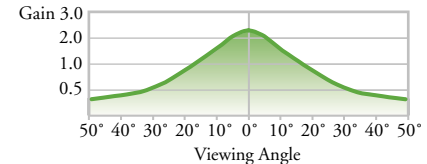
M2500



HiDEF GREY



CINEFLEX



Baronet

Small Electric Screen

The BARONET is a compact electric screen with the motor inside the roller. It is our most economical, and most popular motorized screen. Universal mounting brackets make installation easy whether the BARONET is mounted on a wall, suspended or recessed above the ceiling. The BARONET's small case size will fit almost any space where a motorized screen is needed. The pentagonal steel case is finished in white. Select a FIBERGLASS MATT WHITE, GLASS BEADED or HIGH CONTRAST GREY viewing surface. Three versions of the BARONET are available:

Baronet

Furnished with 3m power cord and 3-position in-line operating switch. Available with 110V or 220V motor.

Baronet/HW

Furnished with junction box and 3-position wall switch for recessed wall mounting. Available with 110V or 220V motor.

Baronet/CE

Furnished with terminal strip and white 3-position "European" style wall switch for surface mounting. 220V motor only.

System Options

- **Extra Drop**—Up to 244 cm (96") overall height, either surface color or black.
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.

Image Area HxW (cm)	Case Length	Nominal Diagonal	Image Area HxW (cm)	Overall Size (cm)	Case Length
<i>AV Format</i>			<i>NTSC/PAL Format</i>		
127 x 127	140	6'1/83 cm	108 x 144	118 x 151	164
152 x 152	164	7'1/213 cm	127 x 169	136 x 177	190
178 x 178	190	8'1/244 cm	152 x 203	163 x 212	225
213 x 213	225	10'1/305 cm	175 x 234	185 x 244	257
244 x 244	257	<i>HDTV Format</i>			
		92"/234 cm	114 x 203	125 x 212	225
		106"/269 cm	132 x 234	142 x 244	257

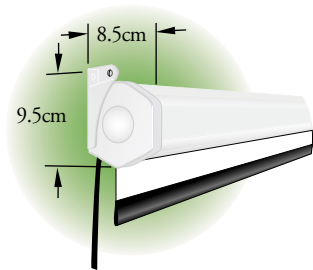
Widescreen formats available



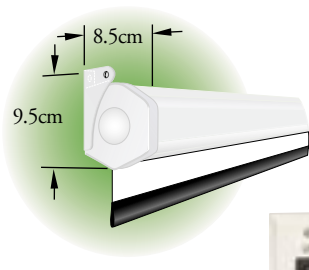
Baronet/HW or CE



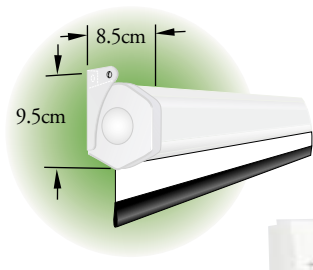
Baronet



Baronet



Baronet/HW



Baronet/CE



Premier

With Flat Surface

The PREMIER is designed specifically for video and data projection. A sophisticated TAB TENSIONING SYSTEM holds the viewing surface flat and wrinkle free. The PREMIER is available with M1300, M2500 or HiDEF GREY front screen viewing surfaces. CINEFLEX surface is also available for rear projection. The PREMIER features a quiet motor-in-roller design. It is suitable for either wall or suspended mounting.

The PREMIER/SERIES C, a crank-operated version of the PREMIER, is also available. Detailed information is available at www.draprinc.com.

System Options

- **Extra Drop**—30 cm (12") black drop at top of screen is now standard on tab-tensioned screens. Additional drop optional. Up to 366 cm (12') overall height, either surface color or black (black is standard). Extra drop will increase the overall length of case.
- **Black Masking Borders**—Standard for all formats.
- **Projected Mounting Brackets**—Provides a 15.2 cm (6") clearance.
- **Control Options**—Refer to page 3.
- **Ceiling Opening Trim Kit**—For ceiling-recessed installation.

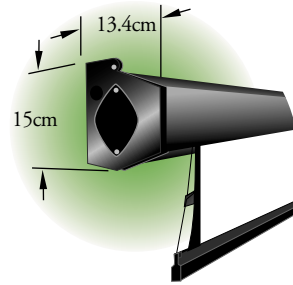


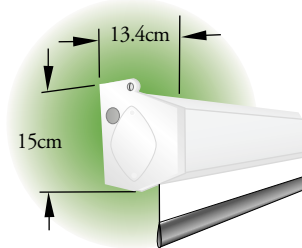
Image Area HxW (cm)	Case Length	Nominal Diagonal	Image Area HxW (cm)	Case Length	Nominal Diagonal	Image Area HxW (cm)	Case Length
<i>AV Format</i>			<i>NTSC/PAL Format</i>			<i>HDTV Format</i>	
127 x 127	173	6"/183 cm	108 x 144	188	92"/234 cm	114 x 203	248
152 x 152	201	7"/213 cm	127 x 169	214	106"/269 cm	132 x 234	280
178 x 178	227	100"/254 cm	152 x 203	249	119"/302 cm	147 x 264	310
213 x 213	265	10"/305 cm	183 x 244	293	133"/338 cm	165 x 295	343
183 x 244	293	11"/335 cm	198 x 264	316	161"/409 cm	201 x 356	408
244 x 244	300	150"/381 cm	221 x 295	347	<i>Widescreen formats available</i>		
213 x 274	326	15"/457 cm	274 x 366	422			
274 x 274	330						
244 x 305	361						
305 x 305	365						
274 x 366	422						
366 x 366	436						

Targa



Contemporary Electric Screen

The TARGA's motor-in-roller design provides reliable, silent operation. The viewing surface is centered in the case for a trim, balanced appearance. The pentagonal-shaped steel case and endcaps are finished in white. Select viewing surface: FIBERGLASS MATT WHITE, GLASS BEADED, HIGH CONTRAST GREY, or acoustically transparent AT1200 or AT GREY.



System Options

- **Extra Drop**—Up to 366 cm (12') overall height, either surface color or black.
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Projected Mounting Brackets**—Provides a 15.2 cm (6") clearance.
- **Control Options**—Refer to page 3.
- **Ceiling Opening Trim Kit**—For ceiling-recessed installation.
- **Larger sizes now available.**

Image Area HxW (cm)	Case Length	Nominal Diagonal	Image Area HxW (cm)	Overall Size (cm)	Case Length	Nominal Diagonal	Image Area HxW (cm)	Overall Size (cm)	Case Length
<i>AV Format</i>			<i>NTSC/PAL Format</i>			<i>HDTV Format</i>			
127 x 127	144	6"/183 cm	108 x 144	118 x 151	169	92"/234 cm	114 x 203	125 x 212	230
152 x 152	169	7"/213 cm	127 x 169	136 x 177	195	106"/269 cm	132 x 234	142 x 244	262
178 x 178	195	100"/254 cm	152 x 203	163 x 212	230	119"/302 cm	147 x 264	158 x 274	293
213 x 213	230	10"/305 cm	175 x 234	185 x 244	262	133"/338 cm	165 x 295	175 x 305	323
183 x 244	262	11"/335 cm	198 x 264	211 x 274	293	161"/409 cm	201 x 356	213 x 366	384
244 x 244	262	150"/381 cm	221 x 295	234 x 305	323	182"/467 cm	229 x 406	241 x 417	435
213 x 274	293	15"/457 cm	267 x 356	277 x 366	384	<i>Widescreen formats available</i>			
274 x 274	293	200"/508 cm	300 x 401	312 x 412	430				
244 x 305	323								
305 x 305	323								
274 x 366	384								
366 x 366	384								

Salara

You've never seen a screen like this before

In your home or office, the SALARA makes a design statement. The SALARA's small, elliptical case and domed endcaps are finished in solid white. Floating wall mounting brackets grip the screen case securely and are barely visible. Power connection is via back of case.

Your choice of conventional viewing surface: FIBERGLASS MATT WHITE, GLASS BEADED, HIGH CONTRAST GREY, AT1200 or AT GREY.

Salara/Series M—Manual, spring-roller operated screen.

System Options

- **Extra drop**—Up to 244 cm (96") overall height, either surface color or black.
- **Black masking borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Control options**

Hardwired—Wired like other DRAPER motorized screens. Can be furnished with any standard control options. Refer to page 3.

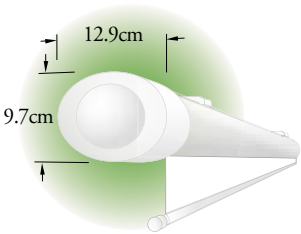
Hardwired with built-in IR receiver—This version includes a hand-held infrared remote control. IR receiver is built into the endcap and includes additional interface for dry contact closure and RS232. Motor is hardwired like all standard DRAPER motorized screens.

Plug & Play™ Version—With DRAPER's PLUG & PLAY option, you can have a remote controlled screen on your wall in 10 minutes—no electrician required. PLUG & PLAY includes a built-in receiver and hand-held IR transmitter. It also includes 3 m (10') of IEC cord, which plugs into socket in back of case and nearest wall outlet.

Just hang it on the wall, and you're in business!

Image Area H x W (cm)	Case Length	Nominal Diagonal	Image Area H x W (cm)	Overall Size (cm)	Case Length
<i>AV Format</i>		<i>NTSC/PAL Format</i>			
127 x 127	140	6' / 183 cm	108 x 144	118 x 151	171
152 x 152	164	7' / 213 cm	127 x 169	136 x 177	196
178 x 178	190	8' / 254 cm	152 x 203	163 x 212	231
213 x 213	225	10' / 305 cm	175 x 234	185 x 244	236
244 x 244	257	<i>HDTV Format</i>			
		92" / 234 cm	114 x 203	125 x 212	231
		106" / 269 cm	132 x 234	142 x 244	236

Widescreen formats available



Back view of Salara case showing Plug & Play option. Patent pending.



Built into the endcap, Draper's MC1 enables IR, additional interface for dry contact closure and RS232. Programmable.



Hand-held IR remote control

Access Screen Series

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

The ACCESS Screen 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.

Case Now/Screen Later—The essence of the ACCESS concept is a totally unique ceiling recessed extruded aluminum headbox. The screen itself (viewing surface and motorized roller) can either be furnished with the headbox or at any time thereafter. The ACCESS or ULTIMATE ACCESS screen itself installs in minutes, and the only tool you need is a hex key.

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



Access Case

Easy Installation—Easy Access

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

- Hanging brackets that slide in channels on top of the case, allowing unlimited adjustment to avoid interference with conflicting building structures. ❶
- A pre-wired junction box inside either end (left end standard), and cable exit holes on top. ❷
- "Pin connector" electrical connection of screen to junction box eliminates tools.
- Flange around the perimeter of the case to support ceiling tile or trim out ceiling. ❸
- Bottom of case that forms a slot for fabric passage ❹, and is removable without tools ❺ for installation or replacement of screen.

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.



Access Case

Access Series

Eliminates your installation problems



Access/Series V—Motorized screen featuring DRAPER's TAB TENSIONING SYSTEM, with choice of M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface.

Access/Series E—Motorized screen with a conventional viewing surface, in choice of FIBERGLASS MATT WHITE, GLASS BEADED, HIGH CONTRAST GREY or acoustically transparent AT1200 or AT GREY.

Access/Series M—Spring-roller operated screen in choice of FIBERGLASS MATT WHITE, GLASS BEADED or HIGH CONTRAST GREY.

System Options

- **Extra Drop**—30 cm (12") black drop at top of screen is now standard on tab-tensioned screens. Additional drop is optional, either surface color or black. Extra drop will increase the overall length of the case of a SERIES V.
- **Black Masking Borders**—Borders are optional for SERIES E and M in AV format. Borders are standard for SERIES E and M in all other formats and for all SERIES V screens.
- **Control Options**—For motorized controls, refer to page 3. Controls may be built into case and will increase the overall length of case. For SERIES M, aluminum operating pole is available in place of factory attached pull cord. Choice of two sizes: 122 cm and 183 cm (4' and 6').
- **Screen/Case Options**—You may choose left or right motor location.

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

Image Area HxW(cm)	Series M Case Length	Series E Case Length	Series V Case Length			
AV Format						
152 x 152	168	188	219			
178 x 178	194	214	244			
213 x 213	229	249	283			
244 x 244	260	280	317			
305 x 305	321	341	383			
274 x 366	381	402	439			
366 x 366	381	402	454			
Series M			Series E		Series V	
Nominal Diagonal	Image Area HxW(cm)	Case Length	Image Area HxW(cm)	Case Length	Image Area HxW(cm)	Case Length
NTSC/PAL Format						
6'/183 cm	108 x 144	168	108 x 144	188	108 x 144	208
7'/213 cm	127 x 169	194	127 x 169	214	127 x 169	233
100"/254 cm	152 x 203	229	152 x 203	249	152 x 203	267
10'/305 cm	175 x 234	260	175 x 234	280	183 x 244	310
11'/335 cm	198 x 264	290	198 x 264	310	198 x 264	334
150"/381 cm	221 x 295	321	221 x 295	341	221 x 295	364
15'/457 cm	267 x 356	381	267 x 356	402	274 x 366	439
200"/508 cm	—	—	300 x 401	448	—	—
HDTV Format						
92"/1234 cm	114 x 203	229	114 x 203	249	114 x 203	267
106"/269 cm	132 x 234	260	132 x 234	280	132 x 234	298
119"/302 cm	147 x 264	290	147 x 264	310	147 x 264	328
133"/338 cm	165 x 295	321	165 x 295	341	165 x 295	361
161"/409 cm	201 x 356	381	201 x 356	402	201 x 356	425
184"/467 cm	—	—	229 x 406	453	—	—

Extra drop will increase the case length on Series V screens. WideScreen formats available.

One step further— Ultimate Access Series



With an independently motorized ceiling closure.

The ULTIMATE ACCESS offers all the advantages of the ACCESS, *plus an independently motorized ceiling closure.* In its closed position, the motorized closure forms a solid bottom panel ❶. At the touch of a switch or wireless transmitter, the door opens *into* the case, then the viewing surface descends into the room ❷. Hinges are invisible. Finally, the entire closure extends down as required for screen installation or adjustment ❸.

No other projection screen offers you so many benefits.

ULTIMATE ACCESS—*The ultimate in projection screen design.*

Ultimate Access/Series V—Includes DRAPER's TAB TENSIONING SYSTEM, with choice of M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface.

Ultimate Access/Series E—Viewing surface of FIBERGLASS MATT WHITE, GLASS BEADED, HIGH CONTRAST GREY or acoustically transparent AT1200 or AT GREY.

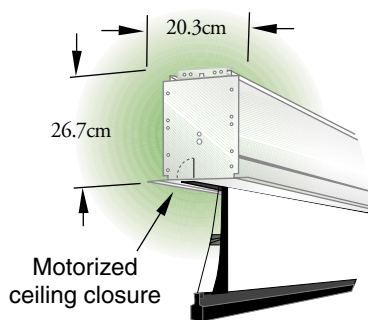
System Options

- **Extra Drop**—30 cm (12") black drop at top of screen is now standard on tab-tensioned screens. Additional drop optional, either surface color or black. Extra drop will increase the overall length of the case of a SERIES V.
- **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 3. Controls may be built into case.
- **Screen/Case Options**—Left end motor location only.

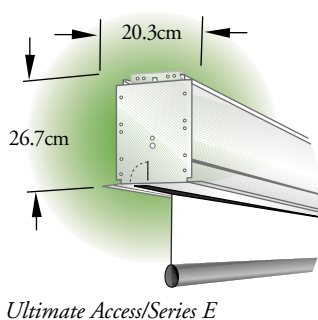
U.S. Patent Nos. 5,341,241; 6,137,629; 6,421,175 and 6,532,109. Other Patents Pending.



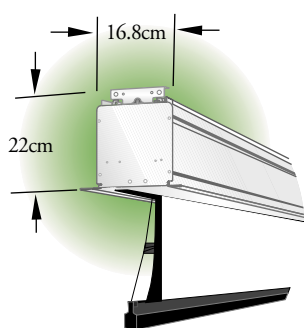
Ultimate Access Case



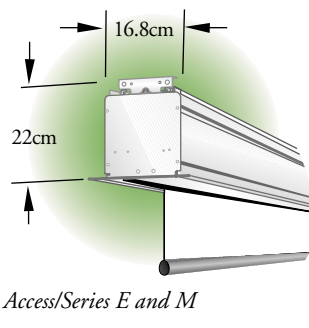
Ultimate Access/Series V



Ultimate Access/Series E



Access/Series V



Access/Series E and M



	Series E Case Length	Series V Case Length
Image Area H x W (cm)		
<i>AV Format</i>		
152 x 152	194	221
178 x 178	220	247
213 x 213	255	285
244 x 244	286	320
305 x 305	347	385
274 x 366	408	442
366 x 366	408	456

	Series E		Series V	
Nominal Diagonal	Image Area H x W (cm)	Case Length	Image Area H x W (cm)	Case Length
<i>NTSC/PAL Format</i>				
6' / 183 cm	108 x 144	194	108 x 144	210
7' / 213 cm	127 x 169	220	127 x 169	235
100" / 254 cm	152 x 203	255	152 x 203	272
10' / 305 cm	175 x 234	286	183 x 244	313
11' / 335 cm	198 x 264	316	198 x 264	336
150" / 381 cm	221 x 295	347	221 x 295	367
15' / 457 cm	267 x 356	408	274 x 366	442
<i>HDTV Format</i>				
92" / 234 cm	114 x 203	255	114 x 203	269
106" / 269 cm	132 x 234	286	132 x 234	300
119" / 302 cm	147 x 264	316	147 x 264	330
133" / 338 cm	165 x 295	347	165 x 295	363
161" / 409 cm	201 x 356	408	201 x 356	428

Extra drop will increase the case length of Series V screens.

WideScreen formats available.

Access Sonata—The ACCESS SONATA includes: a motorized projection screen, choice of SERIES V or SERIES E, up to 305 cm (10') wide; a flat black mask on a second motorized roller converts the screen to your choice of four formats: 4:3 NTSC/PAL, 16:9 HDTV, 1.85:1 WideScreen or 2.35:1 CinemaScope. Centerline and width of viewing surface remain constant.

Access MultiView—Motorized screen and masking system in the same case for dual format projection. The ACCESS MULTIVIEW includes: A motorized projection screen, your choice of SERIES V or SERIES E, in HDTV or WideScreen format up to 305 cm (10') wide. A flat black mask on a second motor-in-roller converts the screen to 4:3 NTSC/PAL video format by masking the sides of the viewing surface.

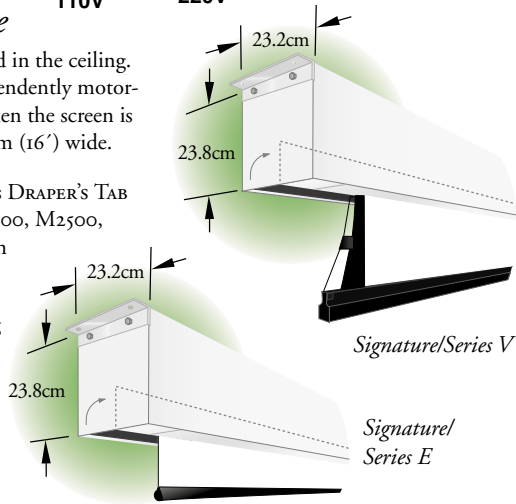
Signature

Automatic Ceiling Closure

The SIGNATURE is designed to be recessed in the ceiling. The SIGNATURE's ceiling closure is independently motorized. It disappears into the white case when the screen is lowered. Available in sizes through 488 cm (16') wide.

Signature/Series V—Includes DRAPER's TAB TENSIONING SYSTEM, with choice of M1300, M2500, HiDEF GREY or CINEFLEX rear projection viewing surface.

Signature/Series E—Viewing surface of FIBERGLASS MATT WHITE, GLASS BEADED, HIGH CONTRAST GREY, or acoustically transparent AT1200 or AT GREY.



Photography by VanderWerf Photography Inc., Waterloo, Iowa.
U.S. Patent No. 5,341,241

Series E		Series V		Series E		Series V	
Image Area	Case	Case	Nominal Diagonal	Image Area	Case	Image Area	Case
H x W (cm)	Length	Length†		H x W (cm)	Length	H x W (cm)	Length†
<i>Audio Visual Format</i>			<i>NTSC/PAL Format</i>				
178 x 178	194	221	6' / 183 cm	108 x 144	169	108 x 144	185
213 x 213	230	260	7' / 213 cm	127 x 169	194	127 x 169	210
305 x 305	321	360	100" / 254 cm	152 x 203	230	152 x 203	247
366 x 366	382	431	10' / 305 cm	175 x 234	261	183 x 244	288
320 x 427	450	489	150" / 381 cm	221 x 295	321	221 x 295	341
427 x 427	450	507	15' / 457 cm	267 x 356	382	274 x 366	421
366 x 488	511	555	240" / 610 cm	358 x 478	511	366 x 488	555
488 x 488	511	—	†Extra drop will increase the case length of Series V screens.				

Also available in HDTV and WideScreen formats.

Silhouette

21st Century Design

The SILHOUETTE has a unique shape. Case and endcaps are made of gently rounded aluminum, with no exposed mounting fixtures or fasteners. Whether motorized or spring-roller, the screen retracts completely inside the case. The SILHOUETTE's slender dimensions and self-concealing mounting fixtures make it equally attractive mounted to the wall or to the ceiling.

The SILHOUETTE features a lightly textured finish in black, white or dove grey. For motorized models, the conduit connection is provided at back or top, so all attachment points are completely invisible. Optional controls may be factory installed inside the case (specify when ordering; this increases case length).

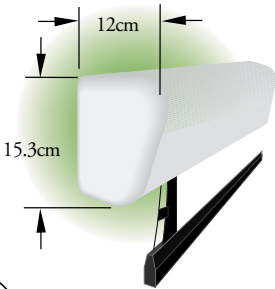
Silhouette/Series V—A motorized screen featuring DRAPER's TAB TENSIONING SYSTEM, with M1300, M2500, HiDEF GREY or CINEFLEX rear viewing surface.

Silhouette/Series E—Motorized with choice of FIBERGLASS MATT WHITE, GLASS BEADED, HIGH CONTRAST GREY, or acoustically transparent AT1200 or AT GREY viewing surface.

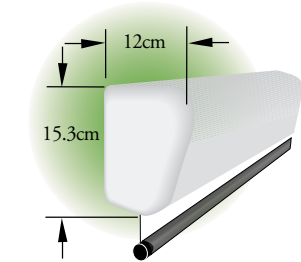
Silhouette/Series M—Spring roller operated screen, features FIBERGLASS MATT WHITE, GLASS BEADED or HIGH CONTRAST GREY viewing surface.

Silhouette/Series C—Crank operated projection screen, with TAB TENSIONING SYSTEM and M1300, M2500, HiDEF GREY or CINEFLEX viewing surfaces.

Silhouette/Series V



Silhouette/Series E & Series M



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



Silhouette/Series V

Viewing Area H x W (cm)	Series M	Series E	Series V	Series C
	Case Length	Case Length	Case Length	Case Length
<i>AV Format</i>				
127 x 127	134	157	185	185
152 x 152	159	182	213	213
178 x 178	185	208	239	239
213 x 213	220	243	277	277
183 x 244	252	275	305	305
244 x 244	252	275	312	312

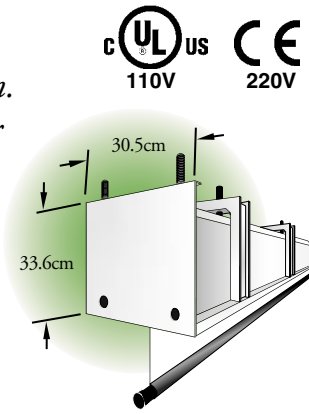
		Series M	Series E	Series V	Series C
Nominal Diagonal	Viewing Area H x W (cm)	Case Length	Case Length	Case Length	Case Length
NTSC/PAL Format					
6'/183 cm	108 x 144	159	182	202	202
7'/213 cm	127 x 169	185	208	227	227
100"/254 cm	152 x 203	220	243	264	264
10'/305 cm	175 x 234	252	275	—	—
10'/305 cm	183 x 244	—	—	305	305
HDTV Format					
92"/234 cm	114 x 203	220	243	261	261
106"/269 cm	132 x 234	252	275	292	292

Extra drop will increase the case length on Series V and C screens.
WideScreen formats available.

Paragon

Largest motorized projection screen.
Sizes through 853 cm (28') wide or
1067 cm (35') diagonal.

Choose the PARAGON for auditoriums, lecture halls and any setting where a very large screen is required. Redesigned case of white extruded aluminum can be suspended anywhere. FIBERGLASS MATT WHITE or GLASS BEADED viewing surfaces will have unobtrusive horizontal seams. *Patents pending.*



System Options

- **Extra Drop**—Up to 640 cm (21') total screen height, either surface color or black (surface color standard on AV format screens, black on all others).
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Wall Mount Bracket Kit**—Includes hardware for attaching brackets to case.
- **Endcap Ceiling Tile Flange Kit**—Includes hardware for attaching flanges to case. Extruded aluminum, finished white.
- **Ceiling Tile Flange for Front of Case**—366 cm (12') length, with hardware for attaching it to case. Please divide length of case requiring trim (in feet) by 12 and round to next whole number to determine number of kits to order. Remember to order trim for both front and back of case if required.

Rolleramic

Large Electric Screen

The ROLLERAMIC is a heavy-duty electrically operated projection screen. It is designed for either wall or suspended mounting. The ROLLERAMIC is available with FIBERGLASS MATT WHITE or GLASS BEADED viewing surfaces.



System Options

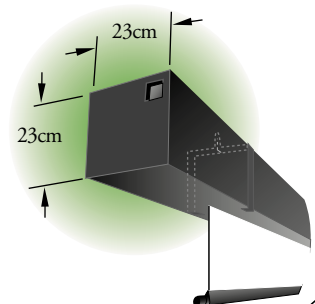
- **Extra Drop**—Up to 610 cm (20') total screen height, either surface color or black.
- **Black Masking Borders**—Borders are optional for AV format screens and standard for all other format screens.
- **Triangular Shaped Steel Slat**—At bottom of projection surface. With screen recessed above ceiling, the triangular slat can be set to stop flush with the ceiling, for a clean installation.
- **Mounting Brackets**—Universal brackets for wall or ceiling mount included, made of 0.6 cm (1/4") thick strap steel. Can also be installed above the ceiling line.

Viewing Area H x W (cm)	Case Length	Viewing Area H x W (cm)	Case Length	Viewing Area H x W (cm)	Case Length
<i>AV Format</i>		<i>AV Format</i>		<i>AV Format</i>	
127 x 127	188	274 x 274	336	366 x 488	564
152 x 152	214	244 x 305	366	488 x 488	564
178 x 178	239	305 x 305	366	411 x 549	625
213 x 213	275	274 x 366	427	549 x 549	625
183 x 244	305	366 x 366	427	244 x 610	686
244 x 244	305	320 x 427	503	457 x 610	686
213 x 274	336	427 x 427	503	610 x 610	686

Nominal Diagonal	Viewing Area H x W (cm)	Case Length	Nominal Diagonal	Viewing Area H x W (cm)	Case Length
<i>NTSC/PAL Format</i>			<i>NTSC/PAL Format</i>		
6'/183 cm	108 x 144	214	15'/457 cm	267 x 356	427
7'/213 cm	127 x 169	239	200"/508 cm	300 x 401	488
100"/254 cm	152 x 203	275	20'/610 cm	358 x 478	564
10'/305 cm	175 x 234	305	250"/635 cm	376 x 503	590
11'/335 cm	198 x 264	336	25'/762 cm	450 x 600	686
150"/381 cm	221 x 295	366			

Viewing Area H x W (cm)	Case Length	Viewing Area H x W (cm)	Case Length
<i>AV Format</i>		<i>AV Format</i>	
457 x 610	635	549 x 732	757
610 x 610	635	732 x 732	757
335 x 671	696	396 x 792	818
503 x 671	696	594 x 792	818
671 x 671	696	427 x 853	879
366 x 732	757	640 x 853	879

Nominal Diagonal	Viewing Area H x W (cm)	Overall Size H x W (cm)	Case Length
<i>NTSC/PAL Video Format</i>			
25'/762 cm	447 x 599	460 x 610	635
27½'/838 cm	493 x 660	505 x 671	696
30'/914 cm	538 x 721	551 x 732	757
32½'/991 cm	584 x 782	597 x 792	818
35'/1067 cm	630 x 843	643 x 853	879



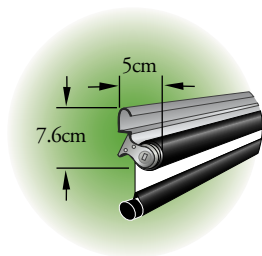
V Screen

The Screen with the 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 manufacturer.

The DRAPER V SCREEN is the longest lasting classroom wall screen, at a very reasonable price. Its design is extremely simple. The screen roller is supported by a strong aluminum bar. The V SCREEN has durable components and a tearproof FIBERGLASS MATT WHITE viewing surface. It installs easily on a wall, map rail or ceiling.

Image Area HxW(cm)	Overall Length
<i>AV Format</i>	
102 x 102	105
127 x 127	130
152 x 152	155
178 x 178	181
213 x 213	216
244 x 244	247
274 x 274	277



V Screen

Star

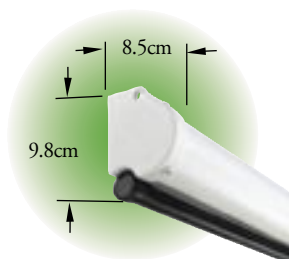
Economy and Durability

The STAR offers durable construction and attractive design at an economic price. The cylindrical steel case is finished in white. FIBERGLASS MATT WHITE viewing surface is standard. Endcaps form universal hanging brackets which may be attached to wall, ceiling or map rail hooks.

System Options

- **Extra Drop**—Up to 213 cm (84") overall height, either white or black.
- **Black Masking Borders**—Available 4 cm (1½") wide in sizes through 178 cm x 178 cm (70" x 70"); 5 cm (2") wide in larger sizes.
- **Pull Cord**—For all sizes 178 cm (70") wide and larger, or any size shipping with wall extension brackets, a pull cord is factory attached.
- **Mounting Options**—PROJECTED MOUNTING BRACKETS available in 15 cm (6") and 30 cm (12") fixed, and 41-64 cm (16"-25") adjustable; T-BAR TWIST CLIPS; or mount to the wall or ceiling.

Image Area HxW(cm)	Case Length
<i>AV Format</i>	
127 x 127	133
152 x 152	158
178 x 178	184
213 x 213	219

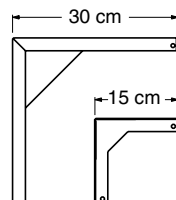


Star

Optional Accessories for Wall/Ceiling Screens

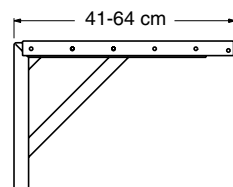
Non-Adjustable Brackets

Heavy gauge angle steel brackets, with white powder coat finish. Two sizes available: 15 cm (6") and 30 cm (12") fixed extensions.



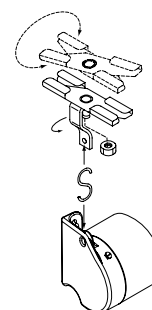
Adjustable Brackets (41-64 cm)

These heavy gauge angle steel brackets have white powder coat finish. They are adjustable from 41 to 64 cm (16"-25") .



T-Bar Twist Clips

Using T-Bar Twist Clips, you can mount screens directly to the T-irons that support suspended ceilings—without tools. Recommended for the STAR and LUMA in sizes through 178 x 178 cm (70" x 70"), and for all V SCREENS.



Luma

Finest wall/ceiling screen

The LUMA is DRAPER's finest spring-roller operated projection screen. Its pentagonal steel case and endcaps are finished in white. The case is designed to be attractive, sturdy and friction-free. The LUMA is available with FIBERGLASS MATT WHITE, GLASS BEADED or HIGH CONTRAST GREY viewing surface.

System Options

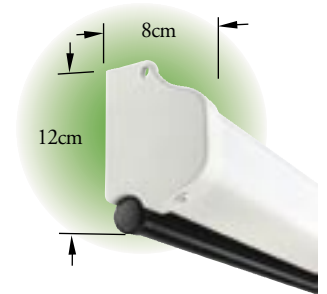
- **Extra Drop**—Up to 244 cm (8') overall height, either white or black.
- **Black Masking Borders**—Available on AV format screens: 4 cm (1½") wide in sizes through 178 cm x 178 cm (70" x 70"); 5 cm (2") wide in larger sizes. All other formats have black borders on all four sides.
- **Projected Mounting Brackets**—15 cm (6") and 30 cm (12") fixed, and 41-64 cm (16"-25") adjustable.
- **Pull Cord**—For all sizes 178 cm (70") wide and larger, or any size shipping with wall extension brackets, a pull cord is factory attached.

Image Area H x W (cm)	Case Length	Nominal Diagonal	Image Area H x W (cm)	Overall Size (cm)	Case Length
<i>AV Format</i>		<i>NTSC/PAL Format</i>			
127 x 127	133	6'/183 cm	108 x 144	118 x 151	158
152 x 152	158	7'/213 cm	127 x 169	136 x 177	184
178 x 178	184	100"/254 cm	152 x 203	163 x 212	219
213 x 213	219	10'/305 cm	175 x 234	185 x 244	250
183 x 244	250	<i>HDTV Format</i>			
244 x 244	250	92"/234 cm	114 x 203	125 x 212	219
		106"/269 cm	132 x 234	142 x 244	250

WideScreen format available



Luma



Luma 2

For large audiences

The LUMA 2 is attractive and practical. Similar in design to the LUMA, the LUMA 2 is available in larger sizes. It is constructed of heavy gauge components for years of dependable operation. The LUMA 2 is suitable for wall or ceiling mounting. Case and endcaps are finished in white. Select FIBERGLASS MATT WHITE, GLASS BEADED or HIGH CONTRAST GREY viewing surface.

System Options

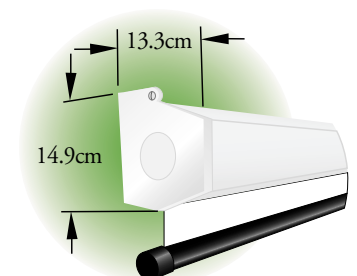
- **Extra Drop**—Up to 366 cm (12') overall height, either white or black.
- **Black Masking Borders**—Available on AV format screens: 4 cm (1½") wide in sizes through 178 cm x 178 cm (70" x 70"); 5 cm (2") wide in larger sizes. All other formats have black borders on all four sides.
- **Projected Mounting Brackets**—15 cm (6") fixed for all sizes; 30 cm (12") fixed, and 41-64 cm (16"-25") adjustable for sizes through 244 cm (8') wide.

Image Area H x W (cm)	Case Length	Nominal Diagonal	Image Area H x W (cm)	Overall Size (cm)	Case Length
<i>AV Format</i>		<i>NTSC/PAL Format</i>			
127 x 127	136	100"/254 cm	152 x 203	163 x 212	223
152 x 152	162	10'/305 cm	175 x 234	185 x 244	251
178 x 178	187	11'/335 cm	198 x 264	211 x 274	283
213 x 213	223	150"/381 cm	221 x 295	234 x 305	314
183 x 244	251	15'/457 cm	267 x 356	277 x 366	375
244 x 244	251	<i>HDTV Format</i>			
213 x 274	283	92"/234 cm	114 x 203	125 x 212	223
274 x 274	283	106"/269 cm	132 x 234	142 x 244	251
244 x 305	314	119"/302 cm	147 x 264	158 x 274	283
305 x 305	314	133"/338 cm	165 x 295	175 x 305	314
274 x 366	375	161"/409 cm	201 x 356	213 x 366	375
366 x 366	375				

WideScreen format available



Luma 2



RoadWarrior

Ultra portable screen for today's ultra portable projectors

The DRAPER ROADWARRIOR lets you travel light and still deliver a big presentation. Designed with today's presenter in mind, the ROADWARRIOR has a strikingly modern appearance.

Sets up in seconds—on the floor or table. Release two clasps to open the lid. Rotate feet into position for stability. Screen height adjusts instantly. At the touch of a finger, extend the screen to desired height (pneumatic cylinders support it at any level). Includes 76 cm (30") of black "rise" below the image area. Aluminum housing and feet are sturdy and streamlined. Detachable shoulder strap included.

Traveller

Attractive and simple—our lightest portable screen

The TRAVELLER is built on the same ultra portable concept as the ROADWARRIOR, yet is lighter. Self contained in a sturdy extruded aluminum case for transport or storage. Detachable shoulder strap.

Sets up in seconds. Rotate feet into position for stability and open hinged lid. Telescoping support behind surface twist locks to position screen at desired height. Includes 107 cm (42") of black "rise" below image to set unit on either floor or table.

System Options

- **Viewing Surfaces**—Available in FIBERGLASS MATT WHITE, GLASS BEADED and HIGH CONTRAST GREY.
- **Carrying Case**—Padded zippered carrying case for storage and transportation. Shock-absorbing padding is over 1 cm thick.



RoadWarrior

Nominal Diagonal	Image Area H x W (cm)	Height Range (cm)	Closed (D x H x L)
<i>NTSC/PAL Format</i>			
60"/152 cm	91 x 122	104—176	11 x 13 x 136
80"/203 cm	122 x 163	135—208	11 x 13 x 177
<i>HDTV Format</i>			
55"/140 cm	69 x 122	81—176	11 x 13 x 136
73"/185 cm	91 x 163	104—208	11 x 13 x 177

Traveller

Nominal Diagonal	Image Area H x W (cm)	Height Range (cm)	Closed (D x H x L)
<i>NTSC/PAL Format</i>			
50"/127 cm	76 x 102	116—197	11 x 13 x 118
60"/152 cm	91 x 122	116—212	11 x 13 x 138
72"/183 cm	110 x 147	161—231	11 x 13 x 161
80"/203 cm	122 x 163	161—243	11 x 13 x 179
100"/254 cm	152 x 203	161—273	11 x 13 x 220
<i>HDTV Format</i>			
46"/117 cm	57 x 102	116—197	11 x 13 x 118
55"/140 cm	69 x 122	116—212	11 x 13 x 138
66½"/169 cm	83 x 147	161—231	11 x 13 x 161
73"/185 cm	91 x 163	161—243	11 x 13 x 179
92"/234 cm	114 x 203	161—273	11 x 13 x 220



Back view of Traveller with telescoping upright



Back view of RoadWarrior with pneumatic cylinders

Diplomat

The Finest Tripod Screen in the World

The DIPLOMAT offers simplicity of design, heavy gauge components and careful workmanship. It is the finest tripod screen you can buy. DRAPER's patented Bell Leg Lock prevents the tripod legs from being bent or broken. Steel case and endcaps are finished in black. A one-piece, die cast handle is designed to permit adjustment of case height with one hand. A soft vinyl carrying case is an option. Viewing surfaces in FIBERGLASS MATT WHITE, GLASS BEADED or HIGH CONTRAST GREY.

Features

- **Keystone Eliminator**—The DIPLOMAT's built-in keystone eliminator extends 46 cm (18"). It is invisible when not in use.
- **Patented Bell Leg Lock**—The exclusive BELL LEG LOCK clamps legs securely to center tube for storage and transportation. It eliminates all risk of bent or broken tripod legs, yet releases easily for setup.
- **Case Color**—Steel case and endcaps finished in black. Case measures 10 cm (4") high x 8 cm (3 1/8") wide.

System Options

- **Black Masking Borders**—Optional for AV format screens, standard for all other formats.
- **Carrying Case**—Black leatherette zippered carrying case is available for storage and transportation.

Keystone Eliminator

Bell Leg Lock



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

Diplomat/R

Case finished for durability in the rental marketplace

All the best features of the DIPLOMAT made more durable to withstand the wear and tear of the rental market. Black carpet optional. U.S. Patent No. 4,097,013



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



Size Image Area H x W (cm)			Case Length	Bottom of screen at lowest level	Top of screen at highest level
<i>AV Format—Consul</i>					
102 x 102			107	42	198
127 x 127			133	42	233
152 x 152			158	51	272
178 x 178			184	51	277
<i>AV Format—Diplomat and Diplomat/R</i>					
127 x 127			133	43	255
152 x 152			158	47	281
178 x 178			184	47	322
213 x 213			219	50	322
183 x 244			250	50	322
244 x 244			250	50	322
Nominal Diagonal	Image Area H x W (cm)	Overall Size H x W (cm)	Case Length	Bottom of screen at lowest level	Top of screen at highest level
<i>NTSC/PAL Format—Diplomat and Diplomat/R</i>					
6'/183 cm	108 x 144	118 x 151	158	47	281
7'/213 cm	127 x 169	136 x 177	184	47	322
100"/254 cm	152 x 203	163 x 212	219	50	322
10'/305 cm	175 x 234	185 x 244	250	50	322

Consul

Economy and Durability

The CONSUL is extremely durable, yet comparatively inexpensive. It is lighter in weight than the DIPLOMAT. The cylindrical steel case and endcaps are finished in black. Luggage-style handle. Select a FIBERGLASS MATT WHITE or GLASS BEADED viewing surface.

System Options

- **Black Masking Borders**—4 cm (1 1/2") borders are optional.
- **Carrying Case**—Black leatherette zippered carrying case.
- **Optional Keystone Eliminator**—Will extend top of viewing surface up to 23 cm (9").

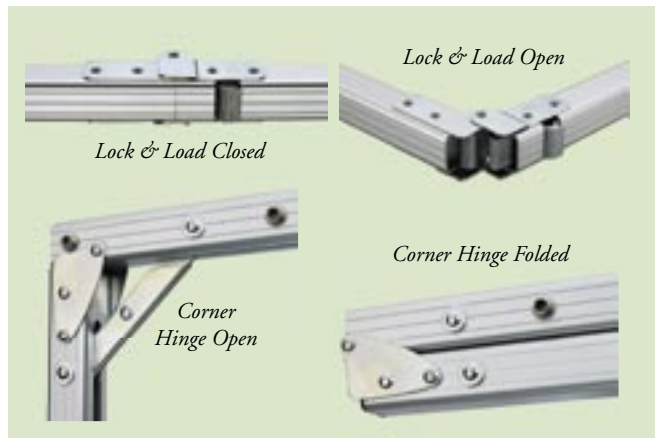


Ultimate Folding Screen

The world's most precisely manufactured folding screen

The ULTIMATE FOLDING SCREEN is the first screen manufactured with 100% CNC (Computer Numerical Controlled) components and assembly. The tubing is CNC machined, surfaces and borders are CNC cut; even rivet and snap holes are CNC placed. **No competitive product meets this standard.**

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. Combine these advantages with clear anodized 3 cm (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 386 cm x 508 cm (152" x 200").



System Options

- **Viewing Surfaces**—Choose a FLEXIBLE MATT WHITE for front projection or CINEFLEX for rear projection. All surfaces have square corners. Borders are electronically welded using a new PVC material that provides straighter, cleaner edges.
- **Sizes: Two Format Options Available**—UFS Standard Sizes, and UFS Euro sizes (charts at right). Standard format viewing surfaces may be interchanged with CINEFOLD surfaces and have 7 cm (2¾") of black masking border. (CINEFOLD detailed on page 17.) Euro format viewing surfaces have 10 cm (4") of black masking border.
- **Frame & Legs**—Standard T-Legs support the ULTIMATE FOLDING SCREEN in a vertical position. The screen may also be tilted for keystone elimination using HEAVY-DUTY LEGS which offer extra stability. Screen pictured above has HEAVY-DUTY LEGS. SUPER HEAVY-DUTY LEGS are recommended for added stability on frame heights greater than 320 cm (10½').
- **Carrying Case**—The ULTIMATE FOLDING SCREEN COMES packed in DRAPER's heavy-duty, molded polyethylene, 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 into an inset. Lid is secured with two adjustable straps.

Standard Format

Overall Size H x W (cm)	Image Area H x W (cm)	Nominal Diagonal
<i>Square Format</i>		
183 x 183	170 x 170	
213 x 213	201 x 201	
244 x 244 ¹	231 x 231	
274 x 274 ¹	262 x 262	
305 x 305 ¹	292 x 292	
366 x 366 ²	354 x 354	
<i>NTSC/PAL Format</i>		
137 x 188	125 x 173	7½"/229 cm
158 x 211	145 x 198	100"/254 cm
183 x 244	170 x 231	10"/305 cm
229 x 305 ¹	216 x 292	150"/381 cm
274 x 366 ¹	262 x 353	15"/457 cm
320 x 427 ²	307 x 414	200"/508 cm
376 x 498 ²	354 x 475	240"/610 cm
—	—	—
—	—	—
—	—	—
<i>HDTV Format</i>		
142 x 243	130 x 231	106"/269 cm
158 x 274	145 x 262	119"/302 cm
175 x 305	163 x 292	133"/338 cm
211 x 366	198 x 353	161"/409 cm
285 x 498 ¹	272 x 485	220"/558 cm
<i>Slide Format</i>		
122 x 183	109 x 170	
152 x 229	140 x 216	
183 x 274	170 x 262	
213 x 320	201 x 307	
244 x 366 ¹	231 x 353	

Euro Format

Overall Size H x W (cm)	Image Area H x W (cm)	Nominal Diagonal
<i>Square Format</i>		
203 x 203	183 x 183	
249 x 249 ¹	229 x 229	
295 x 295 ¹	274 x 274	
340 x 340 ²	320 x 320	
386 x 386 ²	366 x 366	
447 x 447 ²	427 x 427	
<i>NTSC/PAL Format</i>		
157 x 203	137 x 183	90"/229 cm
170 x 221	150 x 201	100"/254 cm
203 x 264	183 x 244	120"/305 cm
231 x 300 ¹	211 x 279	138"/351 cm
249 x 325 ¹	229 x 305	150"/381 cm
264 x 345 ¹	244 x 325	160"/406 cm
295 x 386 ¹	274 x 366	180"/457 cm
310 x 406 ¹	290 x 386	190"/483 cm
340 x 447 ²	320 x 427	200"/508 cm
386 x 508 ²	366 x 488	240"/610 cm
<i>HDTV Format</i>		
142 x 239	122 x 218	98"/249 cm
170 x 287	150 x 267	120"/305 cm
203 x 345	183 x 325	147"/373 cm
249 x 424 ¹	229 x 404	183"/465 cm
295 x 508 ¹	274 x 488	220"/559 cm
<i>Slide Format</i>		
142 x 203	122 x 183	
170 x 244	150 x 224	
203 x 295	183 x 274	
231 x 333 ¹	211 x 312	
264 x 386 ¹	244 x 366	

¹ Heavy-Duty Legs are recommended for frame heights greater than 229 cm (7½').

² Super Heavy-Duty Legs are recommended for added stability on frame heights greater than 320 cm (10½').

Dress Kit

For a professional appearance

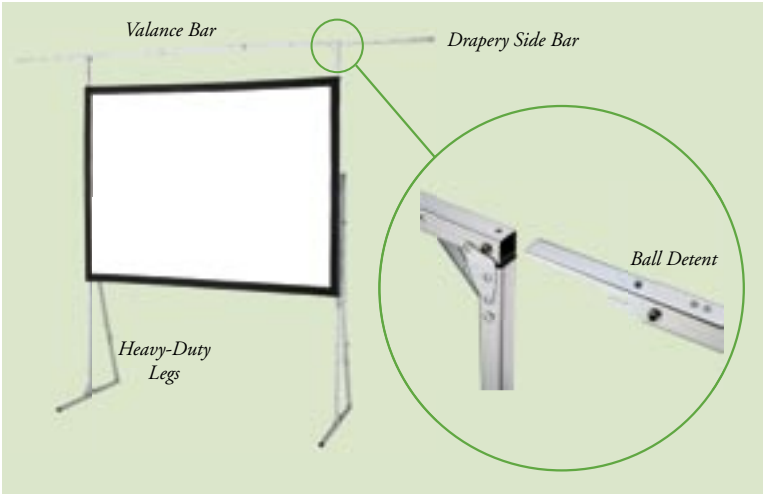
Create a professional, theatre-like appearance by draping your ULTIMATE FOLDING SCREEN, CINEFOLD or TRUSS CINEFOLD with a velour DRESS KIT. Stage curtains surround the viewing surface, pulling the audience's focus to your presentation on the screen.

All DRESS KIT fabrics are flame proofed. DRESS KITS 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 eliminate ambient light in the projection area.

A complete DRESS KIT includes 117 cm (46") skirt, 30 cm (12") valance, and two 81 cm (32") side drapes, all in rich velour. Valance bar and drapery bars fit snugly into the top of the frame of the screen—no tools needed. The viewing surface is fitted with snaps to accept the skirt.

System Options

- **Fabric**—622 g (20 oz.) velour made from 100% cotton is offered in black (standard) or rich navy (optional).
- **Frame & Legs**—HEAVY-DUTY LEGS are recommended with all DRESS KITS.
- **Carrying Case**—A wheeled, polyethylene carrying case is optional and recommended for each DRESS KIT.



Cinefold

The original folding screen in a wheeled case

CINEFOLD is the portable screen to meet every need. Trainers, producers, presenters—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 2.5 cm (1") square aluminum tubing and are color-coded for quick assembly. Steel hardware is cadmium plated. When assembled, the bottom of the frame is normally 112 cm (44") above the floor and adjusts in 15 cm (6") increments. 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. DRESS KITS available (see above).

System Options

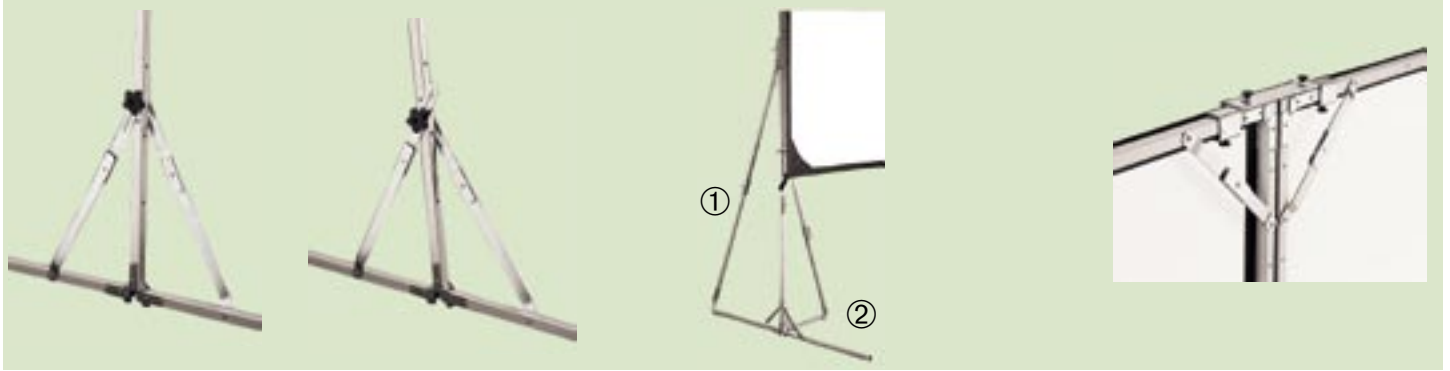
- **Viewing Surfaces**—Choose a FLEXIBLE MATT WHITE for front projection or CINEFLEX vinyl for rear projection. Bordered in black, surfaces are interchangeable.
- **Carrying Case**—The CINEFOLD comes packed in DRAPER's heavy-duty, molded polyethylene carrying case. Each case has two wheels. The handles are molded into each end of the case. Lid handle is steel with a rubber grip and recessed in an inset. Lid is secured with two adjustable straps.

Overall Size (cm)	Image Area (cm)	Overall Size (cm)	Image Area (cm)	Nominal Diagonal
<i>Square Format</i>		<i>NTSC/PAL Format</i>		
152 x 152	142 x 142	119 x 152	109 x 142	6' / 183 cm
183 x 183	173 x 173	137 x 188	127 x 178	7½' / 229 cm
244 x 244	234 x 234	183 x 244	173 x 234	10' / 305 cm
274 x 274 ¹	264 x 264	229 x 305	218 x 295	150" / 381 cm
305 x 305 ¹	295 x 295	274 x 366 ¹	264 x 356	15' / 457 cm
366 x 366 ¹	356 x 356	320 x 427 ²	310 x 417	200" / 508 cm
<i>Slide Format</i>		<i>HDTV Format</i>		
122 x 183	112 x 173	142 x 244	132 x 234	106" / 269 cm
152 x 229	142 x 218	157 x 274	147 x 264	119" / 302 cm
183 x 274	173 x 264	175 x 305	165 x 295	133" / 338 cm
213 x 320	203 x 310	211 x 366	201 x 356	161" / 411 cm
244 x 366 ¹	234 x 356			

¹ Heavy-Duty Legs recommended.

² Heavy-Duty Legs and anti-sway stabilizers recommended.
Custom sizes are available.

Cinefold Features



T-Legs

Standard legs constructed of sturdy 2.5 cm (1") square aluminum tubing, anodized for long life. Hinged inverted "T" shape, with rubber-tipped feet.

Keystone Elimination

T-legs may be adjusted to allow the CINEFOLD to tilt forward up to 8°. Eases viewing and helps to compensate for image distortion.

① Heavy-Duty Legs

Extra reinforcement against front-to-back movement. Recommended for any screen over 229 cm x 305 cm (7½' x 10') or for any screen used with a DRESS KIT.

② Anti-Sway Stabilizers

Reinforce against side-to-side movement. May be mounted either inside or outside CINEFOLD leg. Recommended for screens over 320 cm x 427 cm (10½' x 14') and for use with DRESS KITS.

Joining Clamp/Masking Strips

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.

Truss-Style Cinefold

For larger-than-life presentations.

The TRUSS-STYLE CINEFOLD has extra-rigid truss-style frames and legs constructed of parallel sections of 2.5 cm (1") square aluminum tubing, welded to form a sturdy 15 cm (6") wide truss. All aluminum is clear satin anodized for long life; steel parts are plated. Truss frames have 15 cm (6") wide piano hinges reinforced by two positive locking hinge latches and a HANDY CRANK directly through the hinge point.

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

System Options

- **Viewing Surfaces**—TRUSS-STYLE CINEFOLDS are available with FLEXIBLE MATT WHITE front or CINEFLEX rear projection surfaces.
- **Carrying Case**—Two or more heavy-duty, molded polyethylene wheeled carrying cases are included. Dimensions are 33 cm high x 52 cm wide x 214 cm long (13" x 20½" x 84½").
- **Dress Kits**—Optional Dress Kit includes: 112 cm (44") skirt, 30 cm (12") valance and two 81 cm (32") side drapes, all in rich velour.



	Overall Size H x W (cm)	Image Area H x W (cm)	Nominal Diagonal
<i>Square Format</i>			
	183 x 183	170 x 170	
	274 x 274	244 x 244	
	305 x 305	274 x 274	
	335 x 335	305 x 305	
	396 x 396	366 x 366	
<i>NTSC/PAL Format</i>			
	213 x 274	183 x 244	10'/305 cm
	259 x 335	229 x 305	150"/381 cm
	305 x 396	274 x 366	15'/457 cm
	351 x 457	320 x 427	210"/533 cm
	396 x 518	366 x 488	240"/609 cm
	488 x 640	457 x 610	250"/635 cm
	579 x 762	549 x 732	30"/914 cm
<i>HDTV Format</i>			
	305 x 518	274 x 488	220"/559 cm
	335 x 579	305 x 549	245"/622 cm
	373 x 640	343 x 610	275"/699 cm
	442 x 762	411 x 732	330"/838 cm

Truss Cinefold Features

L-Brace

All TRUSS CINEFOLDS over 762 cm (25') wide feature a special back brace consisting of a full-width truss attached to the top of the frame at right angles to the screen. Adds strength and prevents sagging, while maintaining complete portability.

Frame Stiffeners

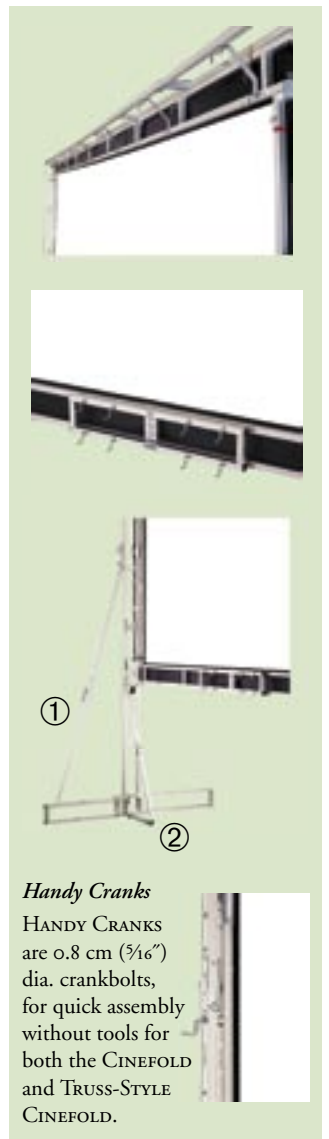
All horizontal hinges on TRUSS-STYLE CINEFOLDS are reinforced by truss frame stiffeners, which mount across the back of the hinge and are held rigidly in place by 8 HANDY CRANKS.

① Heavy-Duty Legs

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

② Anti-Sway Stabilizers

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



Handy Cranks

HANDY CRANKS are 0.8 cm (5/16") dia. crankbolts, for quick assembly without tools for both the CINEFOLD and TRUSS-STYLE CINEFOLD.

Exxxpress

When time is money and every second counts

The EXXPRESS combines compact size and portability with fast, easy setup. Set up the EXXPRESS in minutes! Just remove it from its luggage-style case...open it up...stand it up, and pull the side drapes around the frame.

Viewing Surface

The EXXPRESS viewing surface is made of SPANTEC™, a flexible, flame retardant and acoustically transparent polyester material. Alpine White in color, SPANTEC is solution dyed so it won't fade and is treated to resist stains. The surface comes attached securely to the frame with hook and loop (similar to Velcro®), and removes for machine washing. Surface is complete with black masking border, skirt and side drapes to conceal frame.

Frame

The EXXPRESS frame is constructed of satin anodized aluminum, and each section is octagonal in shape for extra strength. Metal fasteners hold the screen in place. The EXXPRESS is available in four NTSC/PAL sizes ranging from 254 cm (100") diagonal through 457 cm (180") diagonal. The Overall Size dimensions in the chart below include the black masking borders and skirt.

Size Nominal Diagonal	Image Area HxW(cm)	Overall Size HxWxD (cm)	Skirt Height (cm)
NTSC/PAL Format			
100"/254 cm	152 x 203	265 x 213 x 46	108
120"/305cm	184 x 245	317 x 255 x 61	129
150"/381cm	231 x 307	380 x 318 x 61	144
180"/457cm	277 x 370	422 x 380 x 61	160

Case

The EXXPRESS case is a soft bag with wheels and reinforcements similar to a suitcase. The handle is positioned lower on one end to make pulling easier. It sits upright and features three extra side pockets for storage (two on one side and one on the other).

Velcro® is a registered trademark of Velcro Industries B. V.



Exxxpress Case

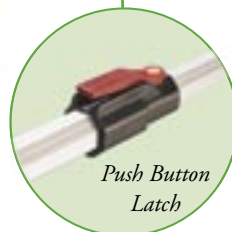


Patent Pending

*Metal fasteners
along both sides
hold the fabric
tight to the frame*

*Surface comes
attached to frame
with Hook & Loop
and may be detached
for cleaning*

Push-button latch releases tension for disassembly



*Casters on
selected joints
aid portability*

The Exxxpress comes in its own wheeled case. Just unzip, extract from the bag, open it up, stand it up and position the side drape grommets onto the metal fasteners. It's quick and easy to assemble.

Innovative Solutions at Work

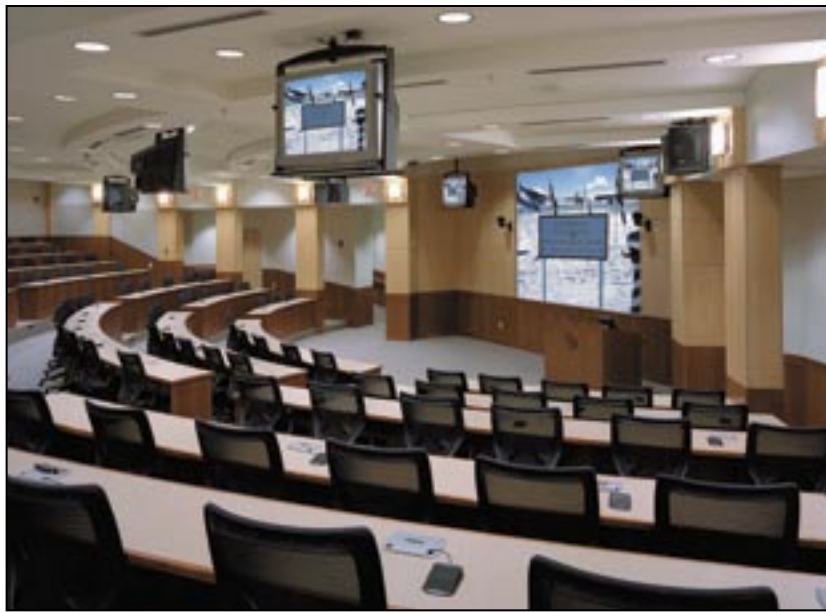
Established in 1902, DRAPER is one of the world's largest and foremost manufacturers of front and rear projection screens. Since 1985, DRAPER has developed a particular expertise in the design and manufacture of custom videowalls, projector support structures and related products for electronic information display.

With installations in more than 100 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, projector mounting systems, and more combined years of design experience than any other projection screen manufacturer, DRAPER's highly skilled designers can provide an optimum solution for any information display requirement.

DRAPER rear projection screens and Information Display System products are used in a wide range of applications, including:

- Command and Control Centers
- Sports and Gaming Venues
- Commercial Simulation
- Broadcast and Teleconferencing
- Product and Process Design
- Point of Purchase Advertising
- Network Operation Centers (NOC)
- Virtual Reality Entertainment Venues
- Board Rooms, Conference and Training Rooms



University of Texas, School of Engineering and Computer Science, Dallas, TX.
Grand Prize, Auditoriums, 2003 Best Presentation Rooms, Presentations Magazine.
Photo courtesy of SPL Integrated Solutions.

Four Unique Rear Screens

- **CINEPLEX®**—Page 21.
DRAPER's diffusion-coated acrylic 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 all formats.

- **DIAMONDSCREEN™**—Page 22. DRAPER's optical rear projection screen. DIAMONDSCREEN's cast acrylic lens system distributes projected light in a wide horizontal viewing cone, while minimizing vertical light spread. Perfect for use with CRT or low light output LCD and DLP projectors.

- **VORTEX**—Page 22. Combines the outstanding center-to-corner uniformity and ambient light rejection of an optical rear projection screen with the high resolution of a diffusion-coated screen. Exceptional contrast levels. Best for use in command and control centers where ambient light is a problem.

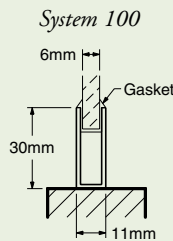
- **IRUS—INFINITE RESOLUTION UNIFORMITY SCREEN**—Page 23. Proprietary technology, only from DRAPER. Designed specifically for use with high-resolution, single lens video and data projectors. Perfect for SXGA and UXGA displays.

Cineframe®

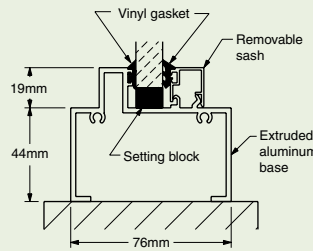
Rigid rear screen installation costs and problems are virtually eliminated with factory-installed CINEFRAMES. Simply place the screen in the finished wall opening, shim into position, and trim as desired. No need to hire a glazier. All CINEFRAMES are extruded of 6063-T5 alloy anodized aluminum. Four styles available.

System 400

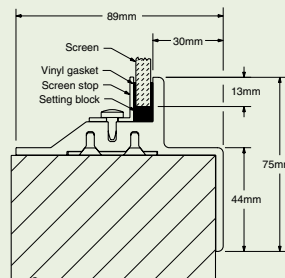
SYSTEM 400 simplifies your installation. Cut a rough opening 6 mm larger than the overall frame size, slide the screen in and bolt into place. No finish carpentry required. SYSTEM 400 has a 44 mm wide dress trim that hides the opening. The audience only sees an attractive frame around a rear screen. Suitable for any CINEPLEX in 6 mm thickness, CINEPLEX in 9.5 mm thickness through 275 cm x 366 cm, DIAMONDSCREEN through 406 cm (160") diagonal and for any IRUS. Black finish.



Systems 200 and 300



System 400



System 300

Adds 108 mm to overall size of screen; reduces clear viewing area by 25 mm in each dimension. Suitable for any CINEPLEX in 9.5 or 12.5 mm thickness. Select black or clear anodized finish.

System 200

Same sturdy design as the SYSTEM 300, but extruded to a slightly thinner wall thickness. Suitable for any CINEPLEX in 6 or 9.5 mm thickness, DIAMONDSCREEN through 406 cm (160") diagonal and for any IRUS. Choice of black or clear anodized finish.

System 100

Simple, clean frame for smaller rear screens. Adds 44 mm to overall height and width of screen; reduces viewing area by 22 mm in each dimension. For 6 mm CINEPLEX, DIAMONDSCREEN or IRUS through 254 cm (100") diagonal. Black or clear anodized finish.

Cineplex®

Rigid Rear Projection Screens

What is a Cineplex Screen?

CINEPLEX is a transparent acrylic substrate, with a permanently bonded optical coating. The optical coating diffuses projected light to reproduce the image. The optical coating may be formulated to provide varying degrees of brightness and image resolution. The substrate is available in three thicknesses: 6 mm, 9.5 mm, and 12.5 mm.

Only From Draper

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 CINEPLEX, 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. If you need assistance in determining the ideal optical coating and tint for your particular requirement, contact your DRAPER distributor.

Optical Coatings

CINEPLEX 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. Best for wide screens, wide seating patterns, multi-image projection and shorter focal length lenses. Suitable for very high output CRT and light valve projectors. Best used under controlled lighting conditions.
- **Cine 13**—Gain of 1.3, with extremely broad viewing cone and uniform distribution of projected light. Best for wide screens, wide seating patterns, multi-image projection and shorter focal length lenses. Best used with medium to high-luminance video and data-graphics projection.
- **Cine 15**—Benchmark wide-angle coating. Gain of 1.5, with uniform distribution of projected light. For all formats, including higher-luminance video projectors.
- **Cine 18**—For medium to wide-angle viewing, with on-axis gain of 1.8. Suitable for all projection formats, including video.
- **Cine 20**—Peak gain 2.0, with a somewhat broader viewing cone than CINE 25. Suitable for relatively high ambient light conditions. For all projection formats, including data, graphics, and video.
- **Cine 25**—Suitable for narrow rooms with narrow viewing cones. Compatible with lower output projectors. On-axis gain 2.5. Good image resolution and color reproduction.

Optical Tints

The optical tint is an important modifier of the optical coating. Tint influences image contrast and color value. All six DRAPER optical coatings are available in 3 optical tints, as listed below.

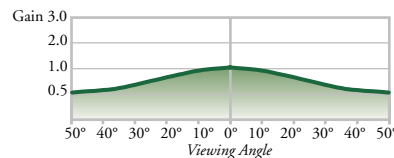
HC—High Contrast (e.g. CINE 13HC)—Dark grey tint. Exceptional contrast and color rendition. Good light dispersion properties. The most popular choice for multiscreen VIDEO WALL applications. Enhances legibility of computer-generated data displays with light or bright text against a dark background: dark colors and black are reproduced with remarkable accuracy.

NG—Neutral Grey (e.g. CINE 13NG)—Standard formulation. Medium grey tint. Normal contrast levels and good color reproduction. Brightness levels are uniform throughout entire viewing cone. Multi-purpose coating suitable for all projection formats and images.

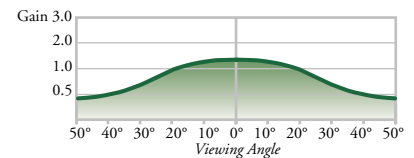
W—White (e.g. CINE 13W)—White tint. Excellent light dispersion. Low contrast levels with some loss in color reproduction. Requires lower light level in audience area. Not recommended for computer graphic/data displays when ambient light is present. Recommended for viewing 3-D applications. Reflects a laser pointer beam. White is best tint to reproduce white backgrounds, so it's best for viewing spreadsheets.



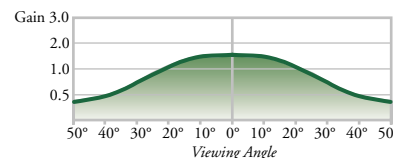
Cineplex Optical Coatings



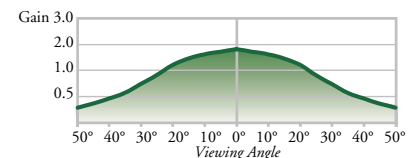
Cine 10



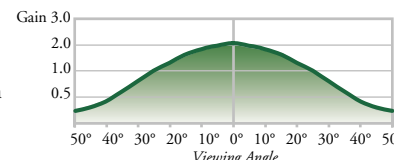
Cine 13



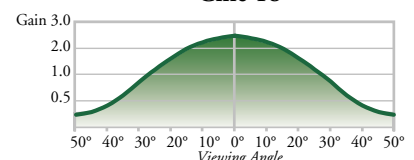
Cine 15



Cine 18



Cine 20



Cine 25

Protective Coating

ArmorKote™—Highly resistant to solvents and abrasion. An excellent "insurance policy" against accidents and user error.

Factory Installed Cineframe®

CINEPLEX can be shipped more safely and installed more easily with factory installed Cineframes. SYSTEMS 100, 200 and 300 are each offered in two finishes: black and clear anodized. SYSTEM 400 is provided in a black anodized finish. See page 20 for more details.

Planning a System

DRAPER CINEPLEX screens are available in virtually any size you require. They are manufactured to your order, with your specified coatings. Factory installed frames are available.

Planning a rear screen installation is a complex undertaking. Contact us for assistance with your project.

Nominal Diagonal	Overall Size H x W (cm)
NTSC/PAL Format	
60"/153cm	94 x 124
67"/171cm	105 x 139
72"/183cm	112 x 151
84"/214cm	131 x 176
90"/229cm	140 x 188
96"/244cm	149 x 200
100"/254cm	155 x 206
120"/305cm	185 x 249
150"/381cm	232 x 308
180"/457 cm	275 x 369
HDTV Format	
92"/234 cm	117 x 206
106"/269 cm	135 x 237
119"/302 cm	150 x 267
133"/338 cm	168 x 298
161"/409 cm	206 x 359

* Cineplex screens larger than 244 cm (96") high require special handling and freight considerations. Please contact Draper for details.

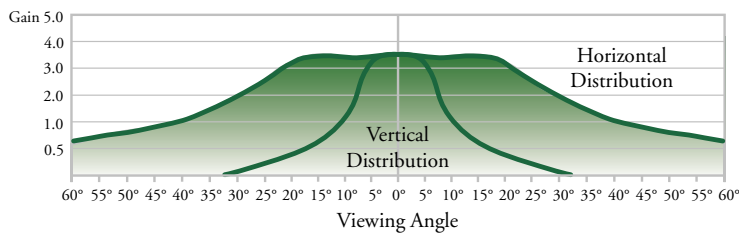
DiamondScreen™

The brightest rear projection screen in the world

DIAMONDScreen: the first rear projection screen designed specifically for video projection. It is a one-piece cast acrylic rear screen with a precision Fresnel/lenticular lens system. Its precise distribution of projected light results in brilliant images over an extremely broad viewing cone, even with older, lower luminance video and data projectors. DIAMONDScreen offers numerous significant advantages compared with conventional coated rear projection screens:

- Extremely bright image—gain 3.5
- Extremely broad viewing cone, with excellent resolution
- Good tolerance of ambient light without significant loss of contrast
- Built-in “color shift” correction
- Excellent corner-to-center brightness ratio eliminates dark corners and “hot spots”

DiamondScreen is also available in any custom size, up to a maximum overall size of 305 cm x 407 cm (120" x 160").



Vortex

Combining the best of optical and diffusion rear screen technology

The VORTEX is a marriage of the best features of two rear screen technologies—optical and diffusion.

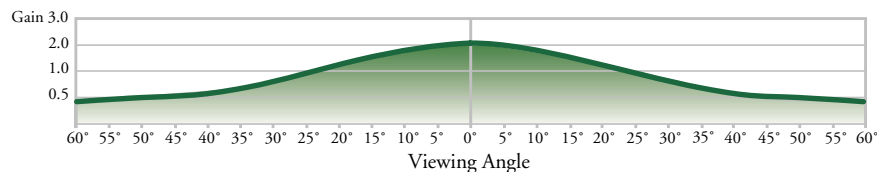
A 0.5 mm Fresnel lens gathers the light from the projector and directs it at a right angle through the screen. As the light exits the screen on the audience side, a diffusion medium redistributes the light evenly in all directions—up, down, left, right and center.

The result is an extraordinary projected image with—

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

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

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



Nominal Diagonal	Image Area HxW (cm)	Overall Size HxW (cm)
------------------	---------------------	-----------------------

NTSC/PAL Format

60"/152 cm	91 x 122	94 x 124
67"/170 cm	102 x 136	105 x 139
72"/183 cm	110 x 149	112 x 151
84"/213 cm	128 x 173	131 x 176
90"/229 cm	137 x 185	140 x 188
96"/244 cm	146 x 198	149 x 200
100"/254 cm	152 x 203	155 x 206
120"/305 cm	183 x 246	185 x 249
125"/318 cm	190 x 253	192 x 256
140"/356 cm ¹	214 x 285	217 x 288
150"/381 cm ¹	230 x 306	232 x 308
160"/406 cm ¹	245 x 326	247 x 328
170"/432 cm ²	259 x 345	263 x 349
180"/457 cm ²	273 x 366	278 x 369
190"/483 cm ²	289 x 386	293 x 390
200"/508 cm ²	301 x 403	305 x 407

HDTV Format

92"/234 cm	1114 x 203	117 x 206
106"/269 cm	132 x 234	135 x 236
119"/302 cm	147 x 264	150 x 267
133"/338 cm ¹	165 x 295	168 x 297
161"/409 cm ²	203 x 356	206 x 358

¹ For safety reasons, Draper recommends that these screens ship with a factory-installed System 200 or 400 frame. On smaller screens, framing may be provided by Draper or by others.

² Vortex not available in these sizes. These DiamondScreens require a Large Screen System frame. The frame ships disassembled. When assembled, it adds 4.13 cm (15/8") to the overall screen height and width.

IRUS

Infinite Resolution Uniformity Screen

The DRAPER IRUS—INFINITE RESOLUTION UNIFORMITY SCREEN—is specifically designed to provide maximum legibility with any projector. Today's SXGA and UXGA displays offer 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.

The image is so consistent that it can be clearly perceived even at 90° off axis (most subject matter would be extremely distorted from this perspective.) Brightness is consistent from center to corner, so the screen is free of "hot spots". Excellent contrast, even in lighted rooms, yet with superior color reproduction.

The IRUS is perfect for command and control centers, where operators often have to watch for small changes in a large grid of screens for hours on end. Imagine what the screen used under those demanding conditions can do for your presentation.

The IRUS offers—

- Uniform resolution compatibility
- Uniform center-to-corner brightness
- Superior color reproduction
- Excellent contrast
- Unique anti-glare finish on a 0.6 cm (1/4") acrylic substrate
- 1.0 gain across a 180° viewing cone
- Sizes through 305 cm (120") diagonal
- Ideal for SXGA or UXGA displays; ready for the next generation of higher resolution projectors

Installation

When framing a single screen, select DRAPER'S SYSTEM 100, 200 or 400 framing systems. For multiple screens or VIDEO WALL applications, our ZERO EDGE FRAMING SYSTEM is compatible.

First Surface Glass Mirrors

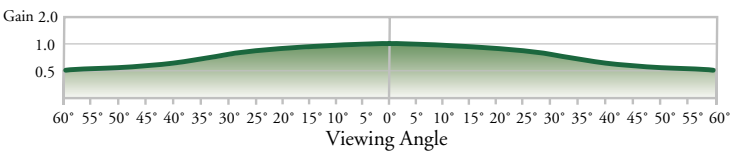
DRAPER furnishes first surface glass mirrors for use in custom rear projection rooms. The mirrors are optical grade glass, 94% reflective, and 6 mm thick. Sizes through 188 x 254 cm (74" x 100") are standard, and larger sizes are available.

Optional frame assembly is constructed of extruded aluminum, and finished in matte black powder coat.

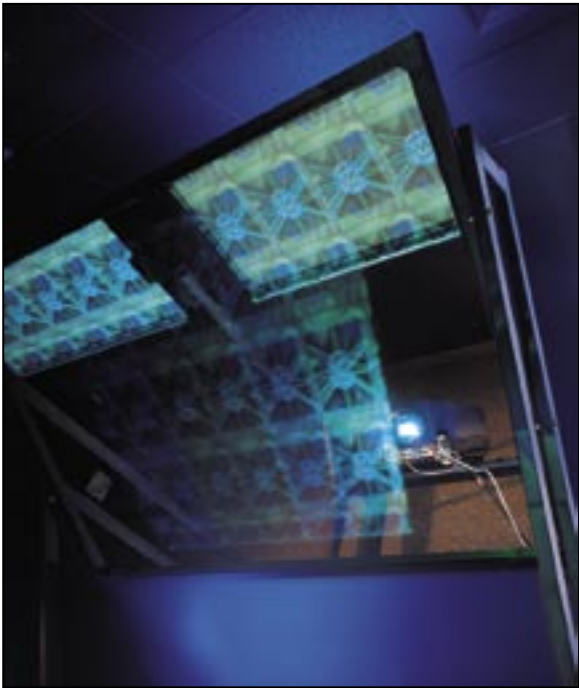
Composite reinforced mirrors are also available to address the problem of deflection that is sometimes encountered in large mirrors. These glass mirrors may bend slightly due to their own weight. A stiffening system is highly recommended for mirrors 122 x 229 cm (48" x 74") and larger, and is often helpful for smaller mirrors. DRAPER laminates 25 or 38 mm aluminum skinned aircraft honeycomb to the complete surface of the mirror, eliminating deflection. The mirror and honeycomb "sandwich" is stabilized on a very flat surface (± 0.1 mm, over length of mirror) prior to lamination and framing. The resulting assembly is the strongest and flattest mirror available today.

Mirror Cleaning Kit

First surface mirrors are delicate and they attract dust, lint and fingerprints. We recommend you use our MIRROR CLEANING KIT. Contains cleaning solution, cotton gloves, lint-free cloth and instructions.



Nominal Diagonal	Image Area HxW (cm)	Overall Size HxW (cm)
NTSC/PAL Format		
60"/152 cm	91 x 122	94 x 125
67"/170 cm	104 x 137	106 x 140
72"/183 cm	110 x 146	112 x 149
84"/213 cm	128 x 171	131 x 173
90"/229 cm	140 x 185	142 x 188
96"/244 cm	149 x 197	151 x 200
100"/254 cm	155 x 206	157 x 208
120"/305 cm	185 x 246	188 x 249
HDTV Format		
92"/234 cm	114 x 203	117 x 206
106"/269 cm	132 x 234	135 x 236



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.

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

The RPX can now be adjusted during installation. Mirror height and angle, projector height and position (front to back) are all adjustable. The RPX ships complete with all required fasteners and hand tools.

Three 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.
- RPX/PRECISION—an RPX plus a unique ALIGNMENT PLATFORM for fine tuning critical adjustments.

Exclusive features for adjustability

Mirror Pivot Plate makes mounting the mirror much easier—shoulder bolts mean 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 new 6-Axis Adjustable Platform—standard with all RPX and RPX/COMPLETE units. The platform allows all movement to be modified for best image alignment. The projector light path can be adjusted in all 6 axes for a perfect picture every time.



The standard RPX configuration is pictured above.



Video Walls

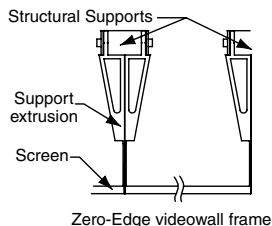
Multiple rear screen VIDEO WALLS are used in command and control rooms, network operations centers, sports and gaming venues, point of purchase advertising and the entertainment industry. Screens can be combined in almost any configuration. Single-tiered systems; multi-tiered systems; single plane, flat or with the upper tier tilted for viewing comfort; or curved along a radius. Panoramic configurations reduce horizontal viewing angles.

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 utilizes a proprietary screen attachment system supported by extruded aluminum light baffles on all four sides. Screens are assembled with "zero" visible separation.

Actual screen separation is approximately 0.5 mm. Modules may be installed in-wall or can be incorporated in a free-standing

DRAPER MULTISCREEN SYSTEM. With ZERO EDGE, screen sizes cannot exceed 305 cm (120") diagonal. U.S. Patent 6,000,668.



Photography by Barry Rustin, Evanston, IL.

Projector Support Structures

PROJECTOR SUPPORT STRUCTURES are built with custom-fitted projector cradles, machined aluminum pivot plates for quick, precise alignment, and unitized welded tubular steel framework. ALIGNMENT PLATFORM is optionally available for precise positioning of projectors. PROJECTOR SUPPORT STRUCTURES can be provided in any grid configuration, in either straight throw or mirrored design. Mirrors, if required, are 94% reflective optical grade first surface glass.

Micro Projector Lift

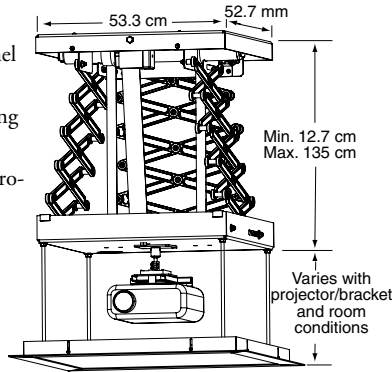
Designed for today's smaller projectors.

The MICRO PROJECTOR LIFT (MPL) is small and convenient, just like the projectors it is designed to accommodate. The MPL has a retracted height of less than 13 cm (without projector, plenum or closure).

The projector's "show" position can be set at any point—with infinite adjustability—up to 122 cm (48") extension. The MPL utilizes the same exclusive 3-scissor design as DRAPER's popular SCISSOR LIFT (see page 26). The load is lifted by two 2.54 cm (1") wide Kevlar® straps. Safety belt provides extra protection.

System Options

- **Ceiling closure panel**—Steel panel with a white baked enamel finish. Can also accept ceiling tile.
- **Ceiling finish kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **Ceiling Access Door**—A 61 x 61 cm (2' x 2') hinged door provides above-the-ceiling access for cleaning. Available with a white painted finish, or recessed to accept ceiling tile.
- **Plenum housing**—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- **Aero Low Profile Mount**—Attaches to projector lift and combines with DRAPER's AERO UNIVERSAL PROJECTOR BRACKET. Projector may also be mounted flush to bottom pan.
- **Factory installed cables** for RGB, Video and Control.
- **Controls**—Described below.



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

Micro Projector Lift

Height of lift in closed position ¹	12.7 cm
Overall lift dimensions (WXL)	53.3 x 52.7 cm
Ceiling opening	60 x 60 cm
Optional plenum housing (trim edge to trim edge) ²	61 x 61 cm
Max. projector size (WXL) ³	51 x 51 cm
Max. down travel	122 cm
Capacity	16 kg
Capacity with AERO LOW PROFILE MOUNT	10 kg
Net weight of lift	16 kg

¹ Not including projector, mount or closure. Optional Aero Low Profile Mount adds 12.4 cm to unit height including Universal Projector Bracket.

² Max. plenum height: 50.8 cm. Min. plenum height: 30.5 cm

³ Max. available projector/bracket height (with Plenum): 34.3 cm
Min. available projector/bracket height (with Plenum): 14 cm

Kevlar® is a registered trademark of DuPont.



Standard switch for
MPL, Revelation
and AeroLift
25/50/150



Standard
switch for
LCD Lift



Standard
switch for
Scissor Lift



Switch for low
voltage multiple
station control



RF Remote Control



IR Remote
Control



VIC-6 or VIC-12



VIC-115 or
VIC-220

Controls for Projector Lifts

Single Station Control—Standard with all DRAPER video projector lifts. One 3-position rocker switch.

Low Voltage Multiple Station Controls—Install switches everywhere they're needed; add wireless transmitter (at right) or interface with a master control system. Optional for all DRAPER video projector lifts. Wiring from control unit to switches is for 24V current.

Wireless Remote Control—Enables you to operate a DRAPER video projector lift from anywhere in the room. For use only with DRAPER low-voltage control unit, with or without wall switches. IR and RF controls available.

Video Interface Control/Ceiling-Recessed Video System—Operate a DRAPER video projector lift in tandem with a DRAPER motorized projection screen using the VIDEO INTERFACE CONTROL. The VIC replaces the screen's switch; for the projector lift, use the standard switch or any control described above. Touch the switch—or wireless remote control—and the video projector lift and projection screen descend. At the end of the presentation, flip the switch and the lift and screen will rise automatically. Model VIC115 integrates screen operation with equipment using a 115V switched outlet. Models VIC12 & VIC6 interface screen operation with equipment featuring a 12V/6V output. The VIC115/220, VIC12 & VIC6 may be purchased with an over-ride switch (VIC-OS), permitting independent operation. Not available for MPL and AEROLIFT 25/50/150. A VIC is not CE certified and is not compatible with an LVC-III, built-in or otherwise.

Revelation

You won't see or hear the projector.

The REVELATION is totally different from traditional projector lifts and mounts. They typically lower the projector into the room from a ceiling recess, or lift it into the seating area from a table hideaway. The DRAPER REVELATION projector mount hides the projector—and its noise—above the ceiling, all the time.

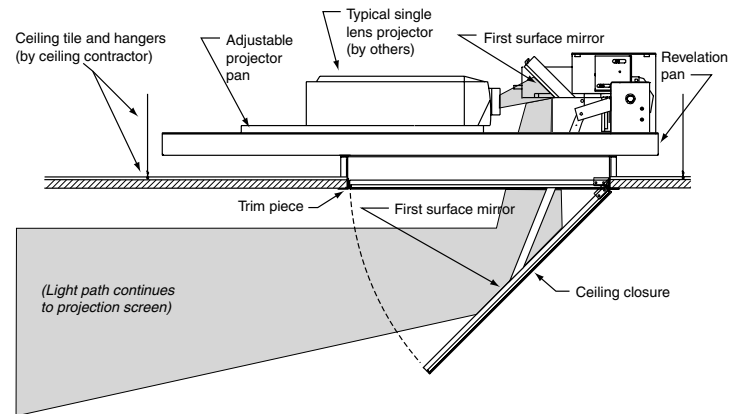
You'll be astonished by what you see—and don't see—and *don't hear*—when your projector is mounted in a REVELATION. You won't see or hear the projector—not before, during or after the show. You'll only see a hinged door in the ceiling, finished in white powder coat.

Available in two models, REVELATION A and REVELATION B both require only 35 cm (13 3/8") of space above the ceiling. *U.S. Patent Number 5,993,011.*

DRAPER upgraded the REVELATION's dual first surface mirror system to thicker (10 mm) optical grade glass mirrors that are 94% reflective for optimum flatness and reflectivity. A modification to both models allows more space for projectors and accommodates a wider variety of LCD/DLP projectors, including those with offset lenses.

System Options

- **Plenum Enclosure**—Aluminum enclosure for use in return air plenum. Includes intake and exhaust fan system with 10 cm (4") couplers for connection to ventilation ducts.
- **Ceiling Access Door**—A 61 x 61 cm (2' x 2') hinged door provides above-the-ceiling access for cleaning. 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.
- **Control Options**—Refer to page 25.



Scissor Lift—SL Series

Places your projector in three positions: store, show and service

DRAPER'S SCISSOR LIFT stores your projector at or above ceiling level, sets it exactly where you need it at show time and brings it down to within easy reach for service. DRAPER factory sets all three positions—store, show and service—to your specifications. Adjustments are easy after installation. Choose from seven service positions, ranging from 122 cm to 305 cm (4' to 10').

Three sets of scissors are the reason for the quiet, fluid movement of the SCISSOR LIFT. Scissors on the left, right and back sides of the unit stabilize the projector both laterally and front-to-back.

Video and LCD projectors can be bolted directly to the lift's bottom pan or mounted with the optional AERO LOW PROFILE MOUNT. The Cable Management System features a pre-laced power supply cord through the back scissor to eliminate cord tangles. Lifting capacity is 160 kg (330 lbs.).

Scissor Lift—SLX Series

Lowers projector up to 17'

Seven SCISSOR LIFT SLX models offer "service" positions ranging from 335 cm (11') to 518 cm (17'). A slightly larger footprint, 69 cm wide and 75 cm deep (23" x 23 1/2"), allows for the extended travel with no loss of stability. Lifting capacity is 160 kg (350 lbs.).

System Options

- **Ceiling closure panel**—Steel panel, with a white baked enamel finish. Can also accept ceiling tile.
- **Ceiling finish kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **Ceiling Access Door**—A 61 x 61 cm (2' x 2') hinged door provides above-the-ceiling access for cleaning. Available with a white painted finish, or recessed to accept ceiling tile.
- **Plenum housing**—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- **Factory installed cables** for RGB, Video and Control.
- **Decorative Cover**—An accordion-action shroud that completely covers all 4 sides of the SCISSOR LIFT SLX above the projector. White cover conceals scissors in the "show" position. Detaches automatically at pan when lift extends to "service" position. Maximum extension of cover is 122 cm (48").
- **Controls**—Refer to page 25.



*Photography by VanderWerf Photography Inc. Waterloo, IA
U.S. Patent Number D395,909*

LCD Lift

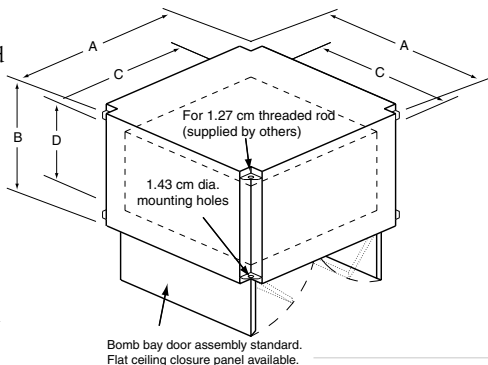
Compact, lightweight lift fits most LCD/DLP projectors.

Bomb bay doors and a slim cross-section distinguish the LCD LIFT. Most popular LCD/DLP/LCOS projectors fit comfortably inside this unit. Available in two sizes—MODEL A and MODEL B.

Plenum housing of aluminum, with closure doors finished in white. 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 fan has shut off. Lifting capacity 29.5 kg (65 lbs.).

System Options

- **Ceiling closure panel**—Steel panel with a white baked enamel finish. Can also accept ceiling tile.
- **Ceiling Access Door**—A 61 x 61 cm (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.
- **Aero Low Profile Mount**—Attaches to projector lift and combines with DRAPER'S AERO UNIVERSAL PROJECTOR BRACKET. Projector may also be mounted flush to bottom pan.
- **Factory installed cables** for RGB, Video and Control.
- **Control Options**—Refer to page 25.



LCD Lift	Model A	Model B
A	61 cm	74 cm
B	45 cm	58 cm
C	46 cm	58.5 cm
D	28 cm	41 cm



LCD Lift shown (above) with standard bomb bay closure. Dimensions in chart are based on standard closure.

AeroLift 25, 50 & 150

With the smallest footprint and height.

The all-new and very cleverly designed AEROLIFT 25 has the smallest footprint and height of any video projector lift. The maximum weight capacity of the AEROLIFT 25 is 11.3 kg (25 lbs.).

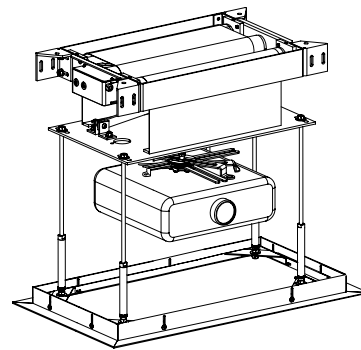
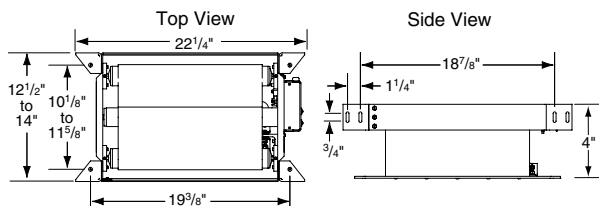
The AEROLIFT 50 and 150 hold 22.7 kg and 68 kg respectively (50 and 150 lbs.), and have a larger overall size. Contact DRAPER for more details.

All are powered by strong tubular motors for a simplified design, and features a stabilizing arm which can be used for cable management. Projector can be mounted flush to bottom pan, or with AERO LOW PROFILE LIFT BRACKET (shown).

The AeroLift 25/50/150 can also be used to recess speakers, security cameras, videoconferencing cameras or document cameras.

System Options

- **Ceiling closure panel**—Steel panel with a white baked enamel finish. Can also accept ceiling tile.
- **Ceiling finish kit**—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- **Ceiling Access Door**—A 61 x 61 cm (2' x 2') hinged door provides above-the-ceiling access. Available with a white painted finish, or recessed to accept ceiling tile.
- **Aero Low Profile Mount**—Attaches to projector lift and combines with DRAPER'S AERO UNIVERSAL PROJECTOR BRACKET.
- **Plenum housing**—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- **Control Options**—Refer to page 25.



Patent Pending

AeroLift 25

Height of lift in closed position ¹	10 cm
Maximum overall lift dimensions (wXL)	57 x 36 cm
Ceiling opening (with small closure)	59 x 36 cm
Optional plenum housing (small size) (wXL) ²	37 x 61 cm
Max. projector size (with small closure) (wXL) ³	22 x 46 cm
Max. down travel	51 cm
Approx. travel time to lowest position	14 sec.
Total lift capacity ⁴	11.3 kg
Net weight of lift ⁵	9 kg

¹ Not including projector, mount or closure. Optional Aero Low Profile Mount adds 12 cm (4 7/8") to height, including Universal Projector Bracket.

² Max. plenum height: 52 cm (20 1/8"). Min. plenum height: 32 cm (12 1/2").

³ Max. available projector/bracket height (with plenum): 40 cm (15 3/4").

Min. available projector/bracket height (with plenum): 20 cm (7 3/4").

⁴ Small closure weighs 3.4 kg (7 1/2 lbs.). Large closure & angle brackets weigh 4.5 kg (10 lbs.).

⁵ Unit only: does not include projector, mount, plenum or closure.

Onyx

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

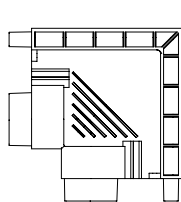
You can have a beautifully framed image hanging on the wall in just 10 minutes—assembly is that easy!

An attractive frame and a new fabric tensioning system make ONYX the leader in permanently tensioned screens. The 10 cm (4") wide beveled, extruded aluminum frame assembles on site with one simple hand tool that DRAPER provides. Each side piece slip fits tightly to injection molded plastic corners, forming perfectly mitered edges.

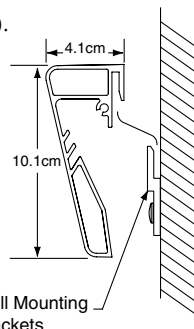
A new approach to fabric attachment will amaze even the toughest of critics. There are no snaps! Uniform tension is applied to the entire surface area, so the surface is perfectly flat. Unique fabric retention system enables you to adjust the surface tension in just seconds, without tools.

System Options

- **Viewing Surfaces**—M1300, M2500, HiDEF GREY, acoustically transparent AT1200 or AT GREY for front projection or CINEFLEX rear projection vinyl.
- **Custom Sizes**—Up to 610 x 610 cm (20' x 20') image area depending on viewing surface.
- **Frame Finishes**—Black aluminum is standard. Cover the frame with optional velvety black textile, VEL-TEX, to eliminate reflections.
- **Mounting**—Permanent wall mount (brackets included).



Injection molded plastic corners, form perfectly mitered edges.



Wall Mounting Brackets

Clarion

Attractive fixed projection screen

Improve your image—with a CLARION projection screen. The viewing surface is perfectly flat. A perfectly flat viewing surface means perfect resolution and perfect picture quality. The viewing surface is stretched over a self-concealing aluminum frame, which forms an attractive border and gives the screen a clean, theatre-like appearance. Black acrylic frame finish is standard. Also available with velvety black VEL-TEX to eliminate reflections on the frame.

You won't find a better image. Choose M1300, M2500, HiDEF GREY, GLASS BEADED or acoustically transparent AT1200 or AT GREY as the viewing surface.

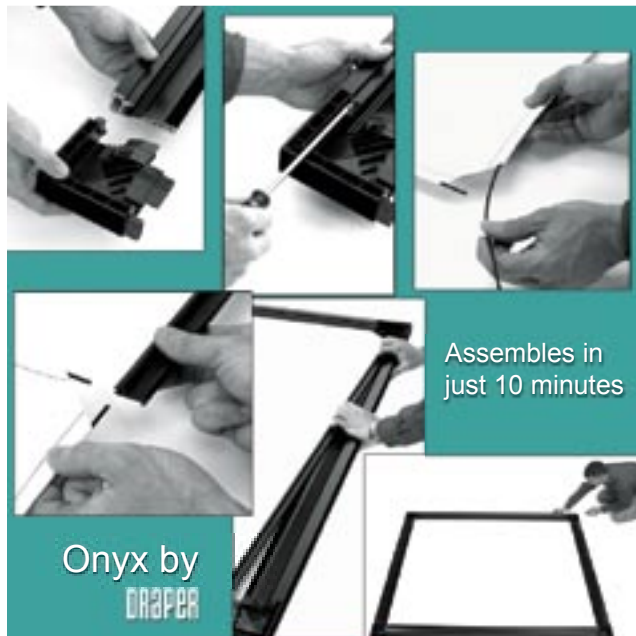
Cineperm

Snap-on screen with aluminum frame

The CINEPERM offers a simple, contemporary appearance. The viewing surface is perfectly flat. The surface attaches to a 2.5 cm (1") square tubular aluminum wall-mounted frame, using press studs set in a black vinyl border. Choice of M1300, M2500, HiDEF GREY, AT1200 or AT GREY viewing surface for front projection and CINEFLEX for rear projection.



Draper's Onyx. U.S. Patent No. 6,785,047. Other Patents Pending. Installation by Fullhouse Media Solutions, Inc., Atlanta, GA. Photography by Ed Wolkis, Atlanta, GA.



Onyx by
DRAPER

Need more information?

Additional photos, descriptions, and specifications for DRAPER products can be found on the Internet at www.draperinc.com. CAD drawings, specifications, and submittal forms are available for download 24 hours a day.

DRAPER

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