

Portable Projection Screens



DRAPER[®]
www.draperinc.com

Choosing a Portable Screen

Draper manufactures the finest and most complete line of portable projection screens in the world. We want to help you choose the right projection screen for most effective presentations. Planning a projection system involves several steps: choosing the screen size, viewing surface, and screen model. Here are some tips to help with these important decisions.

Projection Screen Size Selection

Determine the correct size based upon—

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

Common Projection Formats

Draper portable screens are offered in several aspect ratios (varies by screen model). Formats include Audio Visual, NTSC Video, HDTV, and 16:10.

1:1 AV	4:3 NTSC	16:10	16:9 HDTV
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Ultimate Folding Screen at DePauw University, Greencastle, IN. Photographer: Wayne Williams, Indianapolis, IN.

Front cover: Truss Cinefold with Dress Kit and Pipe and Drape Runoff at Union Station's Grand Hall, Indianapolis, IN. Dealer: Markey's Rental & Staging, Indianapolis, IN. Photographer: Tony Frederick, Muncie, IN.

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Viewing Surfaces

For Folding Projection Screens

These surfaces can be stretched, folded and re-stretched repeatedly without damage.

Flexible Matt White—Pliable matt white material with a gain of 1.0 and a viewing cone of 180°.

Black-Backed M1300—The perfect matt white diffusing surface. Extremely broad light dispersion and spectral uniformity. Recommended for use with any type of projector where the light level can be reasonably controlled. Washable. Gain of 1.0 and a viewing cone of 180°.

M2500—A high contrast black-backed surface with excellent resolution for projectors producing up to 1000 ANSI lumens. Provides good black retention with accurate light colors and whites. Tolerates a higher ambient light level in the audience area than many screen surfaces. On axis gain of 1.5; viewing cone of up to 180°. M2500 can't be folded and must be rolled on a core.

HiDef Grey—A grey front projection surface that provides excellent contrast and black reproduction with a low gain to handle super-bright projectors. Enhances color contrast, black levels and allows for more ambient light. HiDef Grey can't be folded and must be rolled on a core.

Cineflex—Neutral grey rear projection diffusing surface. Provides high resolution and excellent contrast, even in lighted rooms. Useful with a wide range of projection systems. Gain of 1.3 on axis; moderate viewing cone.

Low-Gain Cineflex—**NEW!** Neutral grey rear projection surface with a low gain of 0.8. Available for any product where Cineflex is offered. Excellent contrast for use with brighter projectors and the needs of a wider viewing audience.

Uniflex White—**NEW!** This white rear-projection surface is available wherever Cineflex is offered, and can also be used for front projection. Works well for edge-matching or edge-blending applications. Uniflex White has a peak gain of 0.5 for front projection, and a peak gain of 0.7 for rear projection. Half-gain angle is greater than 50°.

For Tripod and Roller-Operated Projection Screens

Matt White—Diffuses projected light in all directions, so the image can be seen from any angle. Smooth surface offers accurate color rendition, as well as superior clarity. Requires adequate provision for the control of ambient light in the audience area. Gain of 1.0 with a panoramic 180° viewing cone. Seamless in virtually all standard sizes.

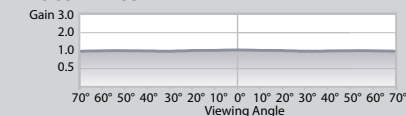
High Contrast Grey—Grey surface offers excellent resolution and enhances color contrast and black levels. Performs well in ambient light condition. Gain of 0.8 allows use with even the brightest projectors; viewing cone of 180°.

Glass Beaded—Spherical glass beads embedded in surface provide brighter on-axis viewing than matt white, within a narrower viewing cone.

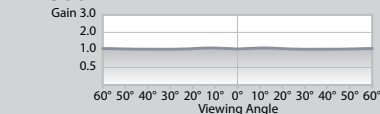
What is Gain?

Gain is a measure of brightness in the projected image as compared to a block of magnesium carbonate, which serves as the industry's standard for gain of 1.0.

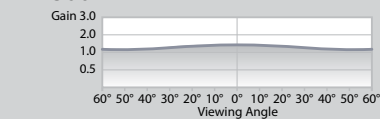
Matt White



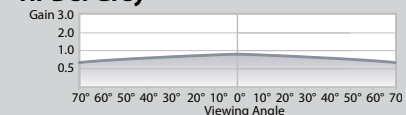
M1300



M2500

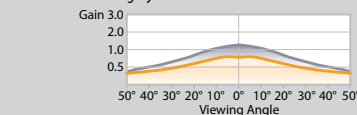


Hi-Def Grey



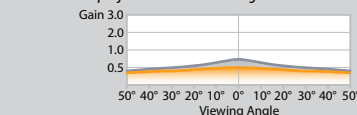
Cineflex and Low-Gain Cineflex

Cineflex shown in grey. Low-Gain Cineflex shown in orange.

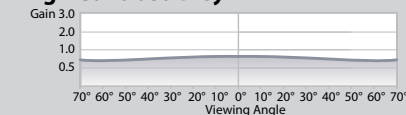


Uniflex

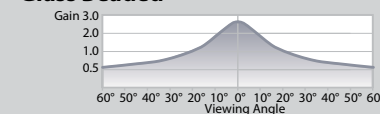
Uniflex rear projection shown in grey. Uniflex front projection shown in orange.



High Contrast Grey



Glass Beaded



Viewing Surface Availability

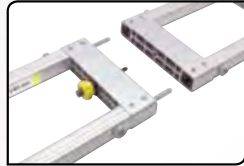
Screen Model	Flexible Matt White	Black-Backed M1300	M2500	HiDef Grey	Cineflex (Rear)	Low-Gain Cineflex (Rear)	Uniflex (Front or Rear)	Matt White	Glass Beaded	High Contrast Grey
Cinefold Consul	✓				✓	✓	✓	✓	✓	
Diplomat								✓	✓	✓
Diplomat/R								✓	✓	
FocalPoint		✓			✓	✓	✓			
MicroScreen								✓		
Luma 2/R								✓	✓	
Piper								✓		
RoadWarrior								✓	✓	✓
StageScreen		✓	✓	✓	✓	✓	✓			
Traveller								✓	✓	✓
Truss Cinefold	✓				✓	✓	✓			
Ultimate Folding Screen	✓				✓	✓	✓			

StageScreen®

Designed for stages, lecture halls, and large venues, the StageScreen is a totally new concept in projection screens. Engineered specifically to be flown, wall mounted, or stood on its own legs.

It is the strongest and most rigid screen on the market. The truss system is completely modular. All available sizes of StageScreen and optional legs are built from combinations of the same 6 standard color-coded frame sections. Black or silver anodized frame finish is available.

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



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



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

Viewing Surface

Black-Backed M1300, M2500, HiDef Grey, Cineflex, Low-Gain Cineflex, or Uniflex White projection surface.

Multiple Patents Pending.



Two 18' x 60' StageScreens flown at Quebec Convention Center. Dealer: Vision AV. Photographer: Guy Rainville. All of Quebec, Canada.

Components and Accessories

Frame Components—Build any size StageScreen with modular frame segments in lengths of 2' (61cm), 3' (91cm), 3½' (107cm), 4' (122cm), 5' (152cm), 6' (183cm), and Frame Corners.

Leg T-Section—Used for constructing StageScreen legs.

Frame Stiffener Bar—Adds additional strength and stability to StageScreen's already impressive frame.

Dual Frame Stiffener Bar—Optional truss-style frame stiffener bar for additional strength and stability.

Leg Attachment Clamp—Securely attaches legs to the frame.

Anti-Sway Stabilizer—Optional. Stabilizes the StageScreen left-to-right when standing on legs.



Anti-Sway Stabilizer

Carrying Case—Rugged heavy-duty wheeled carrying cases make transporting the StageScreen a snap.

Floor Tarp—Protects viewing surface during assembly.

Masking Strips—Quickly and easily convert your screen to a narrower aspect ratio with black masking strips.

Online Configurator

Print color-coded instructions in standard or custom sizes from our website and even see sizes that can be created from existing frame inventory. For more information, visit:

www.draperinc.com/stagescreen/build.aspx

Sizes and Formats

NTSC Format from 6' x 8' (183cm x 244cm) through 30' x 40' (914cm x 1219cm).

HDTV Format from 4'6" x 8' (137cm x 244cm) through 22'6" x 40' (686cm x 1219cm).

16:10 Format from 5' x 8' (152cm x 244cm) through 25' x 40' (762cm x 1219cm).

Multi-Format from 12' x 40' (366cm x 1219cm) through 18' x 60' (549cm x 1829cm).

Custom sizes available by quotation.

Dress Kits for StageScreen

Create a polished theatre-like presentation with a StageScreen Dress Kit. Drapery curtains surround the viewing surface, pulling the audience's focus to your presentation on the screen.

In addition to framing your presentation, dress kits can help hide projection equipment, shield projector light from the audience, and help hold back ambient light from entering the projection area.

Complete Dress Kit

A complete Dress Kit includes a 68" (173cm) high skirt, 14" (36cm) high valance, a pair of 32" (81cm) wide side drapes, and attachment hardware. An appropriate number of wheeled heavy-duty polyethylene carrying cases is standard for all StageScreen Dress Kits.

Fabric

The StageScreen Dress Kit comes standard with Inherently Flame Retardant (IFR) Velour. IFR Velour is flame retardant for the life of the fabric, and never needs retreating. Dress Kits are optionally available with 20oz. cotton velour treated for fire resistance.

Black fabric is standard; Rich Navy or a variety of custom colors are available.

Attachment

Like the StageScreen itself, the StageScreen Dress Kit hardware is modular and universal for any size screen. Extendable 2-piece Drapery Bars easily attach to the sides of the frame to support the side drapes. Unique Valance Bars are evenly spaced across the top of the screen. Side drapes and valance all attach to the hardware with convenient built-in DuraLoops.

The skirt utilizes DuraLoops™ on each end, in addition to magnetic connectors built into the skirt for surprisingly fast and easy attachment.



Skirt partially attached.



Skirt attached with DuraLoop and magnetic fasteners



2-Piece Drapery Bar



Valance Bar

FocalPoint™

An innovation in modular projection screens for portable applications, FocalPoint is designed for standard and small venues, such as meeting rooms or breakout rooms.

The FocalPoint utilizes modular frame construction that makes Draper's StageScreen® so popular. With small profile frame segments made of sturdy extruded aluminum, the FocalPoint is extremely rigid and durable, while remaining lightweight. With no hinges, the FocalPoint is strong, and features quick and easy assembly.

Frame Components

All available sizes of FocalPoint are built from combinations of frame segments and corner pieces. Frame segments come in lengths of 2' (61cm), 3' (91cm), 3½' (107cm), and 4' (122cm). Each leg is constructed using these same frame segments and one leg base.

Frame segments are color-coded for easy identification, and FocalPoint ships with clearly marked assembly instructions and easy-to-follow assembly maps.



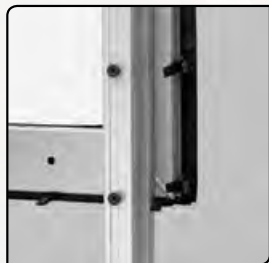
Viewing Surface

The FocalPoint viewing surface attaches with Draper's unique DuraLoop™ bungees and convenient nylon pull-tabs. The result is a perfectly flat self-centering viewing surface that attaches quickly and easily—

WITH NO SNAPS. In addition, the viewing surface includes a black border that extends past the edge of the frame for a finished appearance.

Viewing surfaces are available in Black-Backed M1300 for front projection. For rear projection, Cineflex and Low-Gain Cineflex neutral grey surfaces are available.

Uniflex White viewing surface is suitable for either front or rear projection, and is ideal for edge blending. Custom surfaces and sizes are available.



Leg Base

Frame Corner



2' (61cm)



3' (91cm)



3½' (107cm)



4' (122cm)

Silver and black anodized frame colors are available.

FocalPoint ships complete with an appropriate number of carrying cases, in addition to a floor tarp to keep your viewing surface clean during assembly.

Multiple patents pending.

Components and Accessories

Frame Components—Build any size FocalPoint with modular color-coded frame segments in lengths of 2' (61cm), 3' (91cm), 3½' (107cm), 4' (122cm), and Frame Corners.

Leg Base—Used for constructing FocalPoint legs.

Leg Attachment Cranks—Securely attaches legs to the frame.

Heavy-Duty Leg Brace—Optional. Stabilizes the FocalPoint front-to-back.

Anti-Sway Stabilizer—Optional. Stabilizes the FocalPoint left-to-right.

Carrying Case—Rugged heavy-duty wheeled carrying cases make transporting the FocalPoint a snap.

Floor Tarp—Protects your viewing surface during screen assembly.

Masking Strips—Quickly and easily convert your screen to a narrower aspect ratio with black masking strips.



Online Configurator

Print color-coded instructions in standard or custom sizes from our website and even see sizes that can be created from existing frame inventory. Learn more at :

www.draperinc.com/focalpoint/build.aspx

Sizes and Formats

NTSC Format from 60" x 80" (152cm x 203cm) through 180" x 240" (457cm x 610cm).

HDTV Format from 45" x 80" (114cm x 203cm) through 135" x 240" (343cm x 610cm).

16:10 Format from 50" x 80" (127cm x 203cm) through 150" x 240" (381cm x 203cm).

FocalPoint offers exact true formats—no more nominal sizes! Custom sizes available by quotation.

Multiple Patents Pending.

Dress Kits for FocalPoint™

Create a polished theatre-like presentation with a FocalPoint Dress Kit. Drapery curtains surround the viewing surface, pulling the audience's focus to your presentation on the screen.

In addition to framing your presentation, dress kits can help hide projection equipment, shield projector light from the audience, and help hold back ambient light from entering the projection area.

Complete Dress Kit

A complete Dress Kit includes a 58" (173cm) high skirt, 14" (36cm) high valance, a pair of 30" (81cm) wide side drapes, and attachment hardware. An appropriate number of wheeled heavy-duty polyethylene carrying cases is standard for all FocalPoint Dress Kits.

Fabric

The FocalPoint Dress Kit comes standard with Inherently Flame Retardant (IFR) Velour. IFR Velour is flame retardant for the life of the fabric, and never needs retreating. Dress Kits are optionally available with 20oz. cotton velour—treated for fire resistance.

Black fabric is standard; Rich Navy or a variety of custom colors are available.

Attachment

Like the FocalPoint itself, the FocalPoint Dress Kit hardware is modular and universal for any size screen. Extendable 2-piece Drapery Bars easily attach to the sides of the frame to support the side drapes. Unique Valance Bars are evenly spaced across the top of the screen. Side drapes and valance all attach to the hardware with convenient built-in DuraLoops.

The skirt utilizes DuraLoops™ on each end, in addition to magnetic connectors built into the skirt for surprisingly fast and easy attachment.



Complete Dress Kit



FocalPoint with Dress Kit Skirt and Hardware



FocalPoint with Dress Kit Skirt



2-Piece Drapery Bar



Valance Bar

Ultimate Folding Screen

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

Our Lock & Load latch (patent pending) is designed for ease of operation and maximum life. Lock & Load latches bite down when the surface is attached, making the frame extremely rigid. Latch parts are internal for better protection, and they completely fill the tube for superior strength. The resilient latch retention spring is captured and constantly flexed so that it cannot be dislodged. These advancements translate into the most user friendly and incredibly durable hinge locking mechanism available. Couple these advantages with clear anodized 1.25" x .070" wall aluminum tubing and you've got the precision and stability that allows Draper to offer the Ultimate Folding Screen in sizes through 190½" (484cm) in width.

Standard T-Legs support the UFS in a vertical position. Heavy-Duty Legs are available to offer extra stability and keystone elimination (screen pictured above has Heavy-Duty Legs). Extra Heavy-Duty Legs are recommended for added stability on frame heights greater than 10½' (320cm).

Carrying Case

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

Viewing Surface

Flexible Matt White for front projection. For rear projection, Cineflex and Low-Gain Cineflex neutral grey surfaces are available. Uniflex White viewing surface is suitable for either front or rear projection, and is ideal for edge blending.

All surfaces have square corners. Borders are electronically welded using a new PVC material that provides straighter, cleaner edges. UFS Standard surfaces may be interchanged freely with Cinefold surfaces.

Standard Sizes and Formats

Square Format from 66½" x 66½" (169cm x 169cm) through 138½" x 138½" (352cm x 352cm).

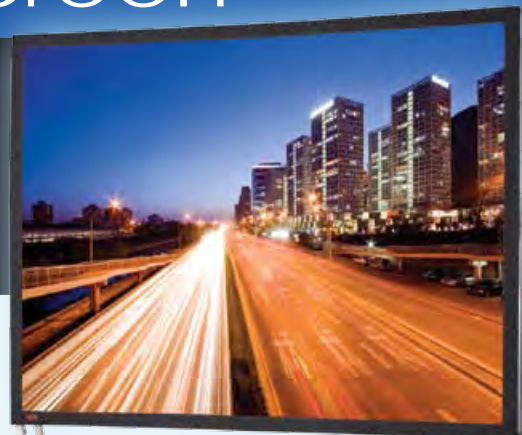
NTSC Format from 48½" x 68½" (123cm x 174cm) through 138½" x 186½" (352cm x 474cm).

HDTV Format from 50½" x 90½" (128cm x 230cm) through 106½" x 190½" (271cm x 484cm).

16:10 Format from 50½" x 80¾" (128cm x 205cm) through 106½" x 170½" (271cm x 433cm).

Slide Format from 42½" x 66½" (108cm x 169cm) through 90½" x 138½" (230cm x 352cm).

Custom sizes available by quotation.



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



Lock & Load Latch Open



Lock & Load Latch Closed



Corner Hinge Open



Corner Hinge Closed



Euro Sizes and Exact Formats

Square Format from 77" x 77" (196cm x 196cm) through 144" x 144" (366cm x 366cm).

NTSC Format from 54" x 72" (137cm x 183cm) through 126" x 168" (320cm x 427cm).

HDTV Format from 48" x 86" (122cm x 218cm) through 108" x 192" (274cm x 488cm).

16:10 Format from 48" x 77" (122cm x 196cm) through 108" x 172½" (274cm x 438cm).

Slide Format from 48" x 72" (122cm x 183cm) through 96" x 144" (244cm x 366cm).

Components and Accessories

Anti-Sway Stabilizer—**NEW!** Stabilizes Ultimate Folding Screen left-to-right.



Anti-Sway Stabilizer

Hinge Stiffener—**NEW!** Strengthens horizontal hinge joints.



Hinge Stiffener

Standard T-Legs—Standard legs for UFS.

Heavy-Duty Legs—Recommended for UFS in frame heights above 7'6" (229cm).

Extra Heavy-Duty Legs—Recommended for UFS in frame heights above 10'6" (320cm).

Adjustable Skirt Bar—Quickly adjusts to any height for skirt attachment where you want it.

Center Support for Adjustable Skirt Bar—**NEW!**

Telescoping support provides quick and easy support to offset deflection of the skirt bar.

Handy Cranks—Used for assembly of UFS and for leg attachment.

Carrying Case—Heavy-duty, molded polyethylene wheeled carrying case

Stagehand—Allows one person to set up most folding screens by helping lift and/or support the screen frame with a specialized telescoping pole.

Masking Strips—Quickly and easily convert your screen to a narrower aspect ratio with black masking strips.



Center Support for Adjustable Skirt Bar

Ultimate Folding Screen Dress Kits

Create a polished theatre-like presentation with a Ultimate Folding Screen Dress Kit. Drapery curtains surround the viewing surface, pulling the audience's focus to your presentation on the screen.

In addition to framing your presentation, dress kits can help hide projection equipment, shield projector light from the audience, and help hold back ambient light from entering the projection area.

Complete Dress Kit

A complete Dress Kit includes a 45" (114cm) high skirt, 12" (30cm) high valance, a pair of 32" (81cm) wide side drapes, and attachment hardware. A wheeled polyethylene carrying case is optional but recommended for Ultimate Folding Screen Dress Kits.

Fabric

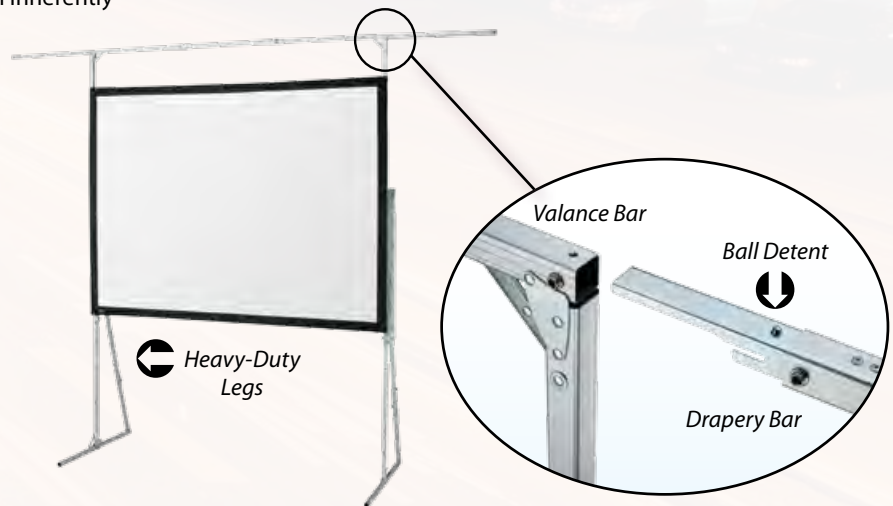
The Ultimate Folding Screen Dress Kit is available with Inherently Flame Retardant (IFR) Velour or 20oz. cotton velour (treated for fire resistance). IFR Velour is flame retardant for the life of the fabric, and never needs retreating.

Black fabric is standard; Rich Navy or a variety of custom colors are optionally available.

Attachment

100% CNC (Computer Numerically Controlled) valance bar and drapery bars fit snugly into the top of the frame—no tools needed. Valance bar, drapery bars, and the viewing surface are all fitted with snaps to attach the fabric.

Heavy-Duty Legs or Extra Heavy-Duty Legs, and Anti-Sway Stabilizers are recommended for extra stability.



Cinefold

Cinefold is a portable screen that sets up quickly without tools, and collapses into a compact case with wheels for easy travel or storage. Trainers, presenters, producers, or anyone who takes a show on the road will love Cinefold.

The Cinefold frame and legs are built of 1" (2.5cm) square structural aluminum tubing and are conveniently color-coded and labeled for quick assembly. Steel hardware is cadmium plated. When assembled, the bottom of the frame is normally 44" (112cm) above the floor and adjusts in 6" (15cm) increments. Hinges are tempered steel and lock positively. Frame, legs, viewing surfaces and accessories are all standardized for easy replacements or additions to the system.

Carrying Case—Cinefold comes complete with a tough carrying case designed for maximum service and dependability. Constructed using rotationally molded polyethylene, it includes fully integrated handles formed into each end of the case and a rubber grip handle recessed into the lid. Each case has two, 1" W x 3" H (2.5cm x 8cm) diameter impact resistant polyolefin wheels molded in the wheel wells. Load capacity is 200lbs (91kg). per wheel. Cases are designed to stack with the lids in place or nest compactly with lids off.

T-Legs—Constructed of sturdy 1" (2.5cm) square hard-alloy structural aluminum tubing, clear etched and anodized for long life. Hinged inverted "T" shape, with rubber-tipped feet.

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

Hinges & Handy Cranks—Hinges are manufactured of tempered steel, and lock positively into place. Handy Cranks are $\frac{5}{16}$ " diameter crankbolts, for quick assembly without tools.

Viewing Surface

Flexible Matt White for front projection. For rear projection, Cineflex and Low-Gain Cineflex neutral grey surfaces are available. Uniflex White viewing surface is suitable for either front or rear projection, and is ideal for edge blending.

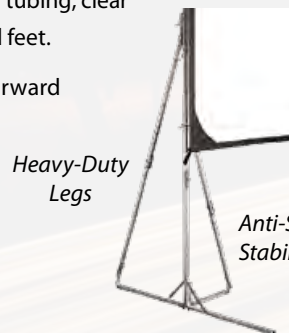
Surfaces are easily interchangeable. Sizes and formats to meet virtually any specification: custom and truss-style sizes available.

Optional Features

Heavy-Duty Legs—Extra reinforcement against front-to-back movement. Recommended for any screen over 7½' x 10' (229cm x 305cm), or for any screen used with a Dress Kit.

Anti-Sway Stabilizers—Reinforce against side-to-side movement. May be mounted either inside or outside Cinefold leg. Recommended for screens over 10½' x 14' (320cm x 427cm) and for use with Dress Kits.

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



Heavy-Duty Legs



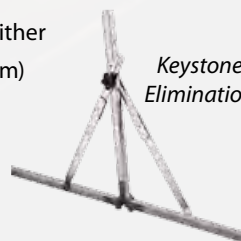
Anti-Sway Stabilizers



T-Legs



Joining Clamp



Keystone Elimination



Hinges & Handy Cranks

Sizes and Formats

Square Format from 56" x 56" (142cm x 142cm) through 140" x 140" (356cm x 356cm).

NTSC Format from 43" x 56" (109cm x 142cm) through 122" x 64" (310cm x 163cm).

HDTV Format from 52" x 92" (132cm x 234cm) through 79" x 140" (201cm x 356cm).

Slide Format from 44" x 68" (112cm x 173cm) through 92" x 140" (234cm x 356cm).

Custom sizes available by quotation.

Components and Accessories

Standard T-Legs—Standard legs for Cinefold.

Heavy-Duty Legs—Recommended for 104" (264cm) or greater image area (height or width). Required for use with Dress Kits.

Skirt Bar—Allows for adjustment of screen size and aspect ratio by raising the skirt in 6" (15cm) increments.

Handy Cranks—Used for assembly of Cinefold and for leg attachment.

Carrying Case—Heavy-duty, molded polyethylene wheeled carrying case

Anti-Sway Stabilizer—Stabilizes Cinefold left-to-right.

Stagehand—Allows one person to set up most folding screen by helping lift and/or support the screen frame with a specialized telescoping pole.

Masking Strips—Quickly and easily convert your screen to a narrower aspect ratio with black masking strips.



Stagehand

Dress Kits

Create a polished theatre-like presentation with a Cinefold Dress Kit. Drapery curtains surround the viewing surface, pulling the audience's focus to your presentation on the screen.

In addition to framing your presentation, dress kits can help hide projection equipment, shield projector light from the audience, and help hold back ambient light from entering the projection area.

Complete Dress Kit

A complete Dress Kit includes a 45" (114cm) high skirt, 12" (30cm) high valance, a pair of 32" (81cm) wide side drapes, and attachment hardware. A wheeled polyethylene carrying case is optional but recommended for Cinefold Dress Kits.

Fabric

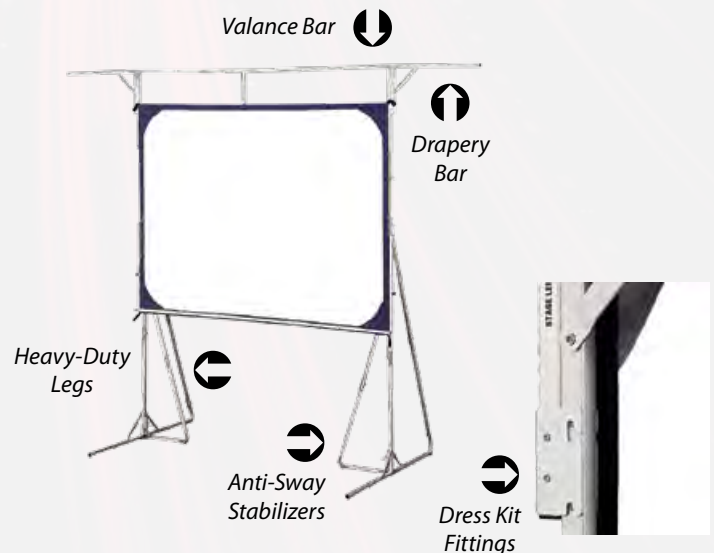
The Cinefold Dress Kit is available with Inherently Flame Retardant (IFR) Velour or 20oz. cotton velour (treated for fire resistance). IFR Velour is flame retardant for the life of the fabric, and never needs retreating.

Black fabric is standard; Rich Navy or a variety of custom colors are optionally available.

Attachment

Valance bar and drapery bars are fitted with brackets that slip easily over shoulder rivets mounted on all Cinefolds, then lock into position. Valance bar, drapery bars, and the viewing surface are all fitted with snaps to attach the fabric. Alternately, choose the optional skirt bar, which allows for adjustment of screen size and aspect ratio by raising the skirt in 6" increments.

Heavy-Duty Legs or Extra Heavy-Duty Legs, and Anti-Sway Stabilizers are recommended for extra stability.



Truss-Style Cinefold

Designed for large audience presentations, Truss-Style Cinefold's extra-rigid frames and legs are constructed of parallel sections of 1" (2.5cm) square hard-alloy aluminum tubing, heliarc welded to form a sturdy 6" (15cm) wide truss.

All aluminum is clear satin anodized for long life; steel parts are cadmium plated. Truss frames have 6" (15cm) wide piano hinges reinforced by two positive locking hinge latches and a Handy Crank through the hinge.

Tough Construction

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 eight Handy Cranks. Truss-Style Cinefold is furnished with heavy-duty legs to reinforce against front-to-back movement, and the provided Anti-Sway Stabilizers also prevent side-to-side movement. In addition, all Truss-Style Cinefolds over 25' (762cm) wide feature a special L-Brace which attaches to the back of the frame for added strength.

Viewing Surface

Flexible Matt White for front projection. For rear projection, Cineflex and Low-Gain Cineflex neutral grey surfaces are available. Uniflex White viewing surface is suitable for either front or rear projection, and is ideal for edge blending. Two or more carrying cases are included. Case dimensions are 13" H x 20 $\frac{1}{8}$ " W x 84 $\frac{1}{4}$ " L (33cm H x 51cm W x 214cm L).

Optional Dress Kits

A complete Dress Kit includes: 44" (112cm) skirt, 12" (30cm) valance and two 32" (81cm) side drapes, all in rich 20oz cotton velour. Inherently Flame Retardant (IFR) velour is optionally available. Tubular aluminum valance bar and drapery bars attach without tools to the Dress Kit fittings found on all Truss-Style Cinefold frames. The viewing surface is fitted with snaps to accept the skirt or select optional adjustable skirt bar. Skirt bar allows for adjustment of screen size and aspect ratio by raising the skirt in 6" (15cm) increments.

Sizes and Formats

Square Format from 96" x 96" (244cm x 244cm) through 144" x 144" (366cm x 366cm).

NTSC Format from 72" x 96" (182cm x 244cm) through 216" x 288" (549cm x 732cm).

HDTV Format from 108" x 192" (274cm x 488cm) through 161" x 288" (409cm x 732cm).

Custom sizes or Masking Strips available by quotation.



Heavy-Duty Legs

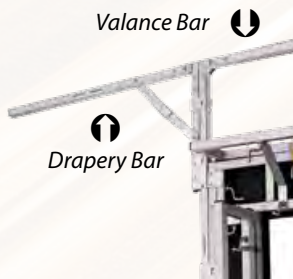
Anti-Sway Stabilizers



L-Brace



Above: Truss Cinefold with a black velour Dress Kit.



Valance Bar

Drapery Bar

Right: Rear view of Truss Cinefold with Valance Bar and Drapery Bars.

Draperies and Skirts

Pipe and Drape Runoff (PDR)

This universal portable Pipe & Drape Runoff (PDR) system can extend the theatre-like appearance of any folding screen and Dress Kit, including Draper's Cinefold, Truss Cinefold, Ultimate Folding Screen, FocalPoint, or StageScreen. Completely freestanding modular system can be assembled in minutes to virtually any size or configuration—without tools—giving your screens and tables a clean appearance.

Drape panels are available in 156" (396cm) or 50" (127cm) widths (to be reduced for fullness). Available in heights of 144" (366cm) or 192" (488cm), with hems top and bottom to accept horizontal drape supports. Choose from four fabrics in black or rich navy, all flame retardant: Velour, Vellite, Classic Twill, or Poly-Knit. Custom colors are available. Draper's Inherently Flame Retardant (IFR) Velour is also available.

Horizontal Drape Support—Infinitely adjustable, with preset positive locking stops—10' (305cm) length, with stops at 6' (183cm), 8' (244cm) and 10' (305cm); 12' (366cm) length, with stops at 7' (213cm), 10' (305cm) and 12' (366cm). Attaches to uprights with sturdy steel hook and slot.

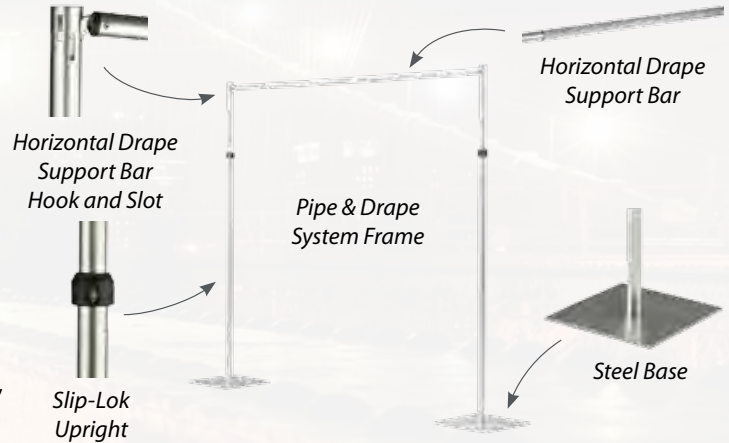
Slip-Lok Upright—Telescoping 2-piece uprights are infinitely adjustable from minimum to maximum height settings. Friction lock bears virtually any weight, yet has fingertip release.

3-Piece Upright—**NEW!** Extends from 7' (213cm) to 17' (518cm) to quickly and easily adjust your drapery to the height you want with minimal effort. Uses the same tough construction as other Draper uprights.

Steel Bases—Sturdy and inconspicuous. Alternate stud positions allow for setup against a wall or in a corner. $\frac{3}{8}$ " x 18" x 18" (1cm x 46cm x 46cm) and 35lbs (16kg), or choose a lightweight base, $\frac{3}{16}$ " x 18" x 18" (.5cm x 46cm x 46cm) and 18lbs (8kg). Store and transport your steel bases and studs in our convenient

Mobile Base Cart (NEW!) pictured at right.

Black hardware is available for quantity orders.



Tripod Screen Skirts

Dress up your Diplomat, Diplomat/R, or Consul tripod screen with Tripod Skirts. All skirts are 38" (97cm) high and attach easily with hook and loop to the screen case. See below for fabric and color options.

AV Cart & Table Skirts

Skirts for AV carts, tables and projector stands—available in black (standard) or rich navy (optional). Coordinate with Pipe & Drape Runoffs or any folding screen Dress Kits for an integrated, professional look.

Every stand and table—regardless of make, condition, even accessories cluttering its shelves—becomes an attractive component in a unified system. Three-sided skirts are available for easy operation of audio/video equipment on mobile tables. Every skirt is furnished with hook and loop for instant attachment and removes easily for storage, transport or cleaning.

Fabrics:

Classic Twill—12oz (340g) wrinkle-resistant polyester.

Poly-Knit—10oz (283g) satiny polyester.

Vellite—12oz (340g) brushed polyester with a crushed appearance.

Colors

Poly-Knit and Vellite are available in black or rich navy. Classic Twill is also offered in black, rich navy or a variety of custom colors. Details available on request.



Tripod skirt shown
in Black



AV Cart/Table Skirts shown
in Rich Navy and Black

Traveller

Why hit the road with a 5-pound projector, and bring a 35-pound screen? Traveller allows you to lighten up. The Traveller has a strikingly modern appearance. It is lightweight with a clean, simplified design.

Setting up the Traveller is simple. Just place it on the floor or table as needed. Screen height adjusts quickly and easily. An infinitely adjustable telescoping upright tensions screen in desired position. Upright stores in case.

Traveller is our most durable pull-up portable screen. Easily replaceable components are self-contained in a sturdy extruded aluminum case.

Shoulder Strap—Use the built-in carrying handle, or sling it over your shoulder with the detachable shoulder strap.

Viewing Surface

Matt white viewing surface is the ideal choice for today's computer-driven presentations. Compatible with resolutions up to 1200 x 1600 and beyond, with a broad viewing cone and accurate color rendition.

Also available in glass beaded and High Contrast Grey. The Traveller includes enough black "rise" below image to set units on either the floor or a table. $\frac{3}{4}$ " (2cm) black masking borders are standard.

Sizes and Formats

NTSC Format from 50" (127cm) through 100" (254cm) diagonal.

HDTV Format from 46" (117cm) through 92" (234cm) diagonal.

16:10 Format from 47" (119cm) through 94" (239cm) diagonal.

Optional Padded Carrying Case

Protect your Traveller from dents, scuffs, and scratches with our padded carrying case. It's flexible and lightweight, yet incredibly durable. Constructed of $\frac{1}{2}$ " (1cm) thick shock-absorbing material sandwiched between tear-resistant black nylon inner and outer sleeves. The case has a heavy nylon strap (removable) for easy transport.



*Optional Padded
Carrying Case*

Online at: www.draperinc.com/go/Traveller.htm

RoadWarrior

The perfect screen for today's ultra-portable projectors, the Draper RoadWarrior lets you travel light and still deliver a big presentation. Available in six sizes, and sets up in seconds on the floor or table.

Designed with today's presenter in mind. Just set the sturdy aluminum case where you want it—floor or table. Release two clasps to open the lid. Rotate feet into position for stability. Extend the screen to desired height (pneumatic cylinders support it at any level). Includes enough black "rise" to clear a standard tabletop.

Screen height adjusts instantly, at the touch of a finger. Compatible with resolutions up to 1200 x 1600 and beyond, with broad viewing cone and accurate color rendition. Setting up the RoadWarrior is a snap.

Shoulder Strap—The RoadWarrior is a great companion for your portable presentation. Sling it over your shoulder with the detachable shoulder strap (pictured at right).



Viewing Surface

Tear-resistant matt white screen surface is designed for computer-driven presentations and meets the needs of today's LCD projectors and computer-generated text—high resolution, broad viewing cone, and accurate color rendition. Also available in glass beaded and High Contrast Grey. All viewing surfaces have $\frac{3}{4}$ " (2cm) black borders at sides and are supported by a $\frac{7}{8}$ " (2cm) black aluminum dowel with full-width slat saddle.

Sizes and Formats

NTSC Format in 60" (152cm) or 80" (203cm) diagonal.

HDTV Format 55" (140cm) or 73" (185cm) diagonal.

16:10 Format 57" (145cm) or 75" (191cm) diagonal

Optional Padded Carrying Case

Draper's optional Padded Carrying Case will protect your RoadWarrior from dents, scuffs and scratches. Constructed of $\frac{1}{2}$ " (1cm) thick shock-absorbing material sandwiched between tear-resistant black nylon inner and outer sleeves, and features a removable heavy nylon strap.



Optional Padded Carrying Case



Back view

Online at: www.draperinc.com/go/RoadWarrior.htm

Piper

Draper's Piper is a high-quality portable screen that's easy to carry and afford, and it's a breeze to set up. All you have to do is lift the upright, choose its height, and raise the screen.

While others manufacture portable screens with damage-prone Mylar, Draper's high-quality, low-cost Piper has a tear-proof Matt White viewing surface, black borders and 30" (76cm) of black rise below the image area.

During storage and transportation, the telescoping upright collapses and clamps to the back of the matt black extruded aluminum case.

Optional padded carrying case protects your Piper screen during storage and transportation.

Sizes and Formats

NTSC Format from 60" (152cm) through 84" (213cm) diagonal.

HDTV Format from 55" (140cm) through 77" (196cm) diagonal.

Custom sizes available by quotation.



Online at: www.draperinc.com/go/Piper.htm

MicroScreen™

MicroScreen is the ultimate travelling screen. Sets up in seconds on the tabletop or any flat surface. Its unique "sidewinder" black case fully encloses and protects screen when not in use. Matt White viewing surface. Black borders and case frame image area. Case fully encloses and protects screen when retracted for storage.

Lightweight: a 40" (102cm) MicroScreen weighs only 5.3lbs (2kg) and a 50" (127cm) weighs only 6.5lbs (3kg).

Optional padded nylon carrying case with zipper closure protects your MicroScreen when not in use.

Sizes and Formats

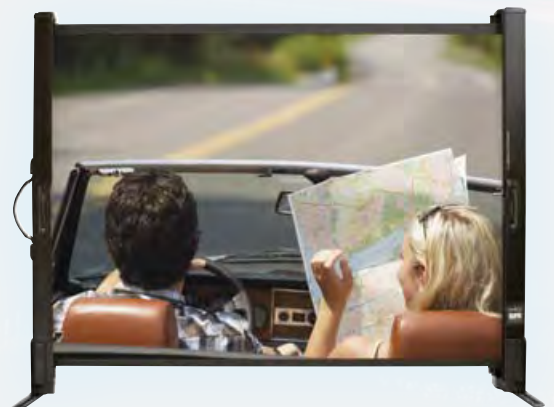
NTSC Format in 40" (102cm) or 50" (127cm) diagonal.



Optional Carrying Case



MicroScreen retracted for storage



MicroScreen back view

Online at: www.draperinc.com/go/MicroScreen.htm

Diplomat/R

The Diplomat/R combines simplicity of design, rugged components and careful workmanship. Diplomat/R features additional durability to withstand the wear and tear of the rental market.

The standard case for a Diplomat/R is scratch resistant baked-on black plastisol on steel. Alternately, choose a case covered in black carpet.

Easy setup and one-hand case adjustment make the Diplomat a pleasure to use. Suspension slat saddle in all sizes maintains a flat viewing surface.

Keystone Eliminator

The Diplomat's built-in keystone eliminator extends top of surface forward 18" (46cm). Invisible when not in use.

Patented Bell Leg Lock

The Diplomat's exclusive Bell Leg Lock clamps legs securely to center tube for storage and transportation. Eliminates all risk of bent or broken legs. Releases easily for setup.

Viewing Surface

The Diplomat/R is available with matt white or glass beaded viewing surfaces. Black masking borders are optional for AV format screens, and standard for all other formats.

Sizes and Formats

AV Format from 50" x 50" (127cm x 127cm) through 96" x 96" (244cm x 244cm).

NTSC Format from 72" (183cm) through 120" (305cm) diagonal.

Optional Padded Carrying Case

Optional black leatherette zippered carrying case is available for storage and transportation. Hard travel case is also available by quotation.

Diplomat

The Diplomat portable projection screen is identical to the Diplomat/R, with the exception of a steel case and endcaps finished in black.

The Diplomat is available with your choice of viewing surfaces: matt white, glass beaded or High Contrast Grey.



Keystone Eliminator



Patented Bell Leg Lock



Diplomat/R with Black Carpet



Optional Carrying Case

Online at: www.draperinc.com/go/Diplomat.htm

Luma 2/R

Heavy-duty screen designed to use in a Floor Stand. This screen is an attractive and practical choice wherever a large, portable spring-roller screen is required.

Constructed entirely of heavy gauge components for years of dependable operation, even in the rental market.

The Luma 2/R is housed in a black, scratch-resistant steel case. Black carpet covering on case is optional.

Floor Stand

Made of heavy gauge steel and anodized aluminum. Provides support for Luma 2/R in an inverted position at floor level. The Luma 2/R Floor Stand's telescoping upright holds top of viewing surface when extended (maximum of 144" (366cm)). Floor Stand is sold separately but required for use as a portable screen.

Viewing Surface

Standard viewing surface is matt white (glass beaded available). NTSC format screens have black borders on all four sides. Black borders on AV format screens are available.



Sizes and Formats

AV Format from 72" x 96" (183cm x 244cm) through 144" x 144" (366cm x 366cm).

NTSC Format from 120" (305cm) through 180" (457cm) diagonal.

Online at: www.draperinc.com/go/Luma2R.htm

Consul

Lightweight yet durably constructed with a steel case and endcaps finished in black, the Consul is designed specifically for audiovisual use. Specified for schools worldwide.

The Consul's legs are of sturdy gabled steel. 60" and 70" sizes feature suspension slat saddle, keeping viewing surface flat. Case adjusts easily to any level on tripod upright.

Optional Keystone Eliminator will extend top of viewing surface forward up to 9". Available for 60" x 60" and 70" x 70" sizes.

Black leatherette zippered carrying case optionally available.

Viewing Surface

Available with matt white or glass beaded viewing surfaces. 1½" black masking borders are optional.

Sizes and Formats

AV Format from 40" x 40" through 70" x 70".



Optional Carrying Case



Online at: www.draperinc.com/go/Consul.htm

Easels

Quality easels from one of America's oldest and largest manufacturers of visual communication products. Draper Easels stand rock-solid on wobble-proof legs, fold easily for transport or storage.

Draper Easel Series

DR Series—Constructed of the highest quality structural grade aluminum alloy. Exclusive features: spring-loaded paper pad clamp, ball detent leg locks, hinged pen tray/chart shelf, hinged chart holders and a hinged storage compartment for writing instruments.

OP Series—OP Series Easels use many of the same high quality components as the DR Series, and feature a spring-loaded paper pad clamp and ball detent leg locks. These have a trim, fixed pen tray and feature a rugged, magnetic steel backboard.

Easel Types

Paper Pad Easels—Quality, durable Paper Pad Easels available in both DR and OP Series. 28" x 38" panel accommodates all standard easel paper pads. Folds from 70" height to a compact 28" x 38" x 2". Finished in tough powder coat or brushed anodized aluminum.

Writing Surface Easels—All the quality and convenience of Paper Pad Easels, plus a white erasable writing surface. Available in both DR and OP Series. The surface is smooth, framed on all four sides and has no visible fasteners. Use it with a paper pad for prepared presentations or to preserve notes; without paper for impromptu "chalk-talks" or magnets.

Heavy-Duty Paper Pad and Writing Surface Easels—The world's toughest easels, designed and built to perform time after time. Heli-arc welded 1" square tubular aluminum frames and sturdy aluminum backboards.

Poster Easels—Lightweight yet rugged tripod easel can be used for posters or paper pads. Hinged chart holders display posters at different heights. Spring-Loaded Chart Clamp (standard on select models) attaches without tools, accommodates standard easel paper pads.

Decorative Poster Easels—Rich, elegant poster easel in solid brass, fully lacquered to inhibit tarnishing. Make an impression in hotel and restaurant lobbies, art galleries, museums, theatres—even shopping malls.

Optional Accessories

Easel Paper Pads—two versions available. **Carrying Cases**—two sizes. **Paper Pad Pens, Dry Erase Pens, Magnets, Porcelain Cleaner and Eraser** for dry-erase surfaces.

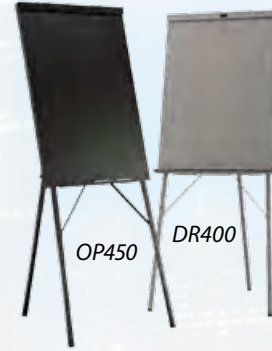
Poster Easels



Heavy-Duty Easels



Paper Pad Easels



Writing Surface Easels



Easel Models

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

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



Writing Accessories



Carrying Cases

FlatScreen Lift/Case Combo

Take your flatscreen on the road with confidence. Protects your flatscreen for transportation or storage, and raises it up where your audience can see it with the touch of a button when it's time for the show.

Unique, synchronous multi-stage design enables vertical extension of almost 1½ times the stored height. Fully adjustable to any position within range. Furnished complete with surge protector, RF and push button control.

Features one recessed Hubble brand 120 volt power input receptacle, a carpeted accessories compartment, and a convenient accessory shelf.

Average setup time is less than 8 minutes.

About the case

RUGGED—The top, bottom and stabilization plates are constructed of 18 mm birch plywood. The sides are constructed of 9 mm birch plywood. Panels are secured with steel rivets to 1" x 1" welded tubular aluminum frame. All exterior surfaces coated with Sound Guard textured chemical skin.

Two case sizes to lift flat screen displays up to 65" diagonal. ATA design with all recessed latches and handles.

Safety

4" casters rest in caster dishes on a stabilization base plate. Case is secured to plate with tie downs. It is perfectly stable in fully extended position.

Flat screen display rests on foam bed in "down" position, and is surrounded on all six sides with foam when case is closed. Each lift/case combo is designed specifically for your make and model of flat screen display.

Available Accessories

The FlatScreen Lift/Case Combo is available with optional locking casters, built-in monitor inputs, and a stylish black skirt for a professional looking presentation. Contact Draper for details.

See a video demonstration of the Draper FlatScreen Lift/Case Combo online at:

www.draperinc.com/go/FSLCaseCombo.htm



Power input receptacle



Accessory Shelf



DRAPER®

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fax 765-987-7142 ■ www.draperinc.com

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