

PROJECTION SCREENS
LIFTS & MOUNTS
CONTROL SYSTEM
AV FURNITURE



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DRAPER GROUP LTD - your *projection* partner

Draper Group Ltd, a subsidiary of Draper Inc. USA, was established in Corby, Northants in 2008. The new Draper Group Ltd. facility incorporates sales and warehousing resources to support and develop the UK sales activities for distribution partners and AV dealers.

The Draper Group operation stocks a popular range of Draper® and Euroscreen® branded product including a wide range of projection screens, projector lifts and associated AV equipment. We offer **next day delivery** to existing UK customers and to new trade accounts. Custom sizes available upon lead time. Please contact sales office for demonstration of products.

SCREEN SIZE SELECTION

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

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

In some situations, these two questions yield the same answer; in others they do not and compromises must be made. Here are the key considerations:

Audience Area—In determining the correct screen size in relation to the audience area, the goal is to make the screen large enough so those in the rear of the audience area can read the subject matter easily, but not so large that those in the front of the audience area have difficulty seeing the full width of the projected image.

Height—Use the following formulas for calculating screen height for maximum legibility. For 4:3 moving video and entertainment, screen height should be at least 1/6 the distance from the screen to the furthest seat; for charts and data, as in a conference or lecture room, use 1/4; for complex graphics, as in a command/control center, use 1/2. For HDTV projection, screen height should equal or exceed 1/3 the distance from the screen to the optimum seat.

Ceiling Height—The bottom of the screen should be approximately 102-122 cm above the floor in a room with a level floor and several rows of seats. In rooms with theatre seating or only one or two rows, such as a home theatre, the bottom of the screen should usually be 61-92 cm above the floor. Try to make sure that the lower part of the screen will be visible from all seats. Extra drop may be required to position the screen at a comfortable viewing level in a room with a high ceiling.

Width—Screen width is generally determined by the height of the screen and the projection formats to be used.

Projection Format—Once you have determined the correct size of screen for the audience area, that size may be modified based upon the type(s) of

projection equipment to be used. If the screen will only be used with one type of projector (NTSC/PAL video, HDTV, etc.), it is easy to determine exact screen dimensions based upon the projection format of that projector. Projection formats are expressed in terms of aspect ratio, which is the relationship of the height of the projected image to its width. Aspect ratios of common projection formats are listed below.

Aspect Ratios of Common Projection Formats

W:H	
1:1	Overhead and opaque projection
4:3	PAL/NTSC
16:10	Native computer format
16:9	High Definition Television (HDTV)
2.35:1	CinemaScope
Note: Vertical presentation of a slide reverses its aspect ratio. To allow this, use a 1:1 aspect ratio for any type slide.	

SCREEN SELECTION ADVICE

Projection screens come in a variety of different formats, and it is important to select the one that most suits your application. Draper Group Ltd has the ability to offer custom made projection screens, in addition to the wide variety of standard formats and sizes. The most common are as follows:

1:1 ratio—This will accommodate all projection formats. This is because the height of the screen is the same as the width thereby allowing all other formats to be shown, albeit with a white space at the bottom and/or top of the picture. A square screen is best selected if an overhead projector is to be used. Usually no black borders, however tensioned screens come with black borders.

4:3 ratio—This is a format similar to the traditional television screen in that the width is slightly wider than the height of the image to be viewed.

Many multimedia projectors adopt this format as standard. Usually supplied with black borders, and 16:9 images can be viewed on this type of screen with white space top and/or bottom.

16:10 ratio—This format is the native computer display format and therefore highly suitable for business projectors. Black borders are standard.

16:9 ratio—As with the latest television sets, HDTV/Wide projection screens are considerably wider than they are high and are ideal for use in home cinema and similar applications. Usually supplied with black borders.

2.35:1 ratio—This format is the ultimate in home theatre which allows projection of movies in their full native width without letterboxing. Black borders are standard.

SCREEN SURFACES

Matt White/Arctiq—The standard to which all other screen surfaces are compared. A matt white surface diffuses projected light in all directions, so the image can be seen from any angle. Matt white offers accurate color rendition, as well as superior clarity. Recommended for use with overhead projectors and high light output projection devices. 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 textile-backed surface offers excellent resolution while enhancing the blacks of LCD/DLP projected images. Performs well in ambient light condition. High Contrast Grey's lower gain of 0.8 allows use with even the brightest projectors; viewing cone of 180°. Available on most non-tensioned motorized and manual screens, seamless in sizes up to 244 cm high.

MORE SCREEN SURFACES ON NEXT PAGE.

GreyLight—As the name hints, the GreyLight screen surface is a very light grey matt screen surface. A gain of 0.93 provides more contrast and better colours even in ambient light environments. The material is sturdy, washable and flame and mildew resistant, and 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. All glass beaded surfaces have some loss of clarity and perform best with table-mounted projectors. Flame and mildew resistant, cannot be cleaned.

AT1200/Acoustic—The most innovative and versatile acoustically transparent screen material available. Available on several models of permanently tensioned and motorized screens. Gain of 1.0, similar to matt white. Available in sizes through 183 cm x 244 cm or 10' diagonal. The acoustical properties are comparable to the highest quality speaker grille cloth. Not recommended for screens smaller than 203 cm wide when used with LCD or DLP projectors.

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. It is unique in that it offers both a 180° viewing cone and the vivid color contrast associated with high contrast grey materials. Available in sizes through 183 cm x 244 cm or 10' diagonal. Gain of 0.8. Not recommended for screens smaller than 203 cm wide when used with LCD or DLP projectors.

Flexible Matt White—Pliable matt white material for use in our portable folding screens. It can be stretched, folded and restretched repeatedly without damage. Flexible matt white is an excellent matt white material with a gain of 1.0 and a viewing cone of 180°.

M1300—The perfect matt white diffusing surface. Ideal for high resolution data projection. Extremely broad light dispersion and spectral uniformity. Panoramic viewing angle and true color rendition. Recommended for use with any type of projector where the light level can be reasonably controlled. Washable. A gain of 1.0 and a viewing cone of 180°.

FlexWhite—A flexible white material, which is used in permanently fixed screens and Tab Tension screens. Provides a gain of 1.0 and a viewing cone of up to 180°.

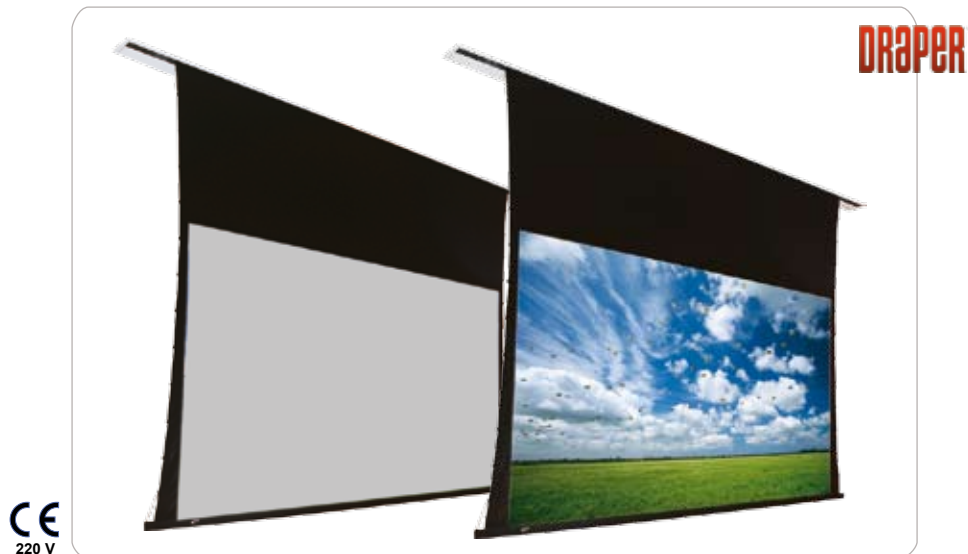
M2500—A high contrast surface with excellent resolution for projectors producing up to 1000 ANSI lumens. Provides good black retention with accurate light colors and whites. M2500 tolerates a higher ambient light level in the audience area than many front projection screen surfaces. On axis gain of 1.5; viewing cone of up to 180°.

HiDef Grey—Grey front projection surface that provides excellent contrast and black reproduction. The surface is designed with a low gain of 0.9 to meet the demands of today's super bright 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.

FlexGrey—A flexible grey material which provides higher contrast and better colour rendition with a gain of 0.8. The material is used in permanently fixed and Tab Tension projection screens. A viewing cone of up to 180°.

Cineflex/FlexRear—Neutral grey rear projection diffusing surface. Provides high resolution and excellent contrast, even in lighted rooms. Useful with a wide range of projection systems. Moderate viewing cone.

ReAct—Excellent screen surface for projection screens positioned in light environments. This grey elastic material provides optimal colour rendition and maximum contrast for both black and white colours with kept white levels. The ReAct material stretches for maximum lay flatness and therefore used in permanently fixed projections screens and Tab Tension models. Popular among home cinema enthusiasts; however it is also most suitable for boardrooms where light is hard to block out.



ACCESS/SERIES V - *install case first, screen later*

- Designed to be installed easily and cleanly above the ceiling
- Tab Tensioned viewing surface for perfectly flat image
- White housing (W x H): 229 x 178 mm, includes integral trim flange and mounting brackets
- Surfaces available: M1300, HiDef Grey and M2500
- Available formats: 1:1, 4:3, 16:9, 16:10 and 1.85:1
- Custom sizes available on request
- IR remote and RF remote available (page 34)
- Quiet motor available (page 8)



Mount case in advance and screen later for install flexibility



NEW! SESAME TAB TENSION - *for perfectly flat surface*

- White aluminium case for recessed ceiling installations
- Viewing surface flatness to be adjusted at bottom bar
- Case size (W x H): 125 x 100mm
- Surfaces available: FlexWhite, FlexGrey, FlexRear and ReAct
- Available formats: 4:3, 16:9, 16:10 and 2.35:1
- Custom sizes available on request
- RF remote, IR remote and AutoLink available (page 34)
- Quiet motor available (page 8)
- Recessed ceiling brackets available (page 8)



Tab Tension for flat viewing surface.



ACCESS/SERIES E - *eliminates your installation problems*

- Designed to be installed easily and cleanly above the ceiling
- White housing with integral trim flange and a pair of mounting brackets
- Case size (W x H): 232 x 250mm
- Surfaces available; Matt White, High Contrast Grey and Glass Beaded
- Available formats: 1:1, 4:3, 16:9, 16:10 and 1.85:1
- Custom sizes available on request
- IR remote and RF remote available (page 34)
- Quiet motor available (page 8)



Access case as closed.



Easy to adjust when mounted.



SESAME 2.0 - *conceal the screen above the ceiling* **UPGRADED MODEL!**

- White elegant aluminum case
- Case size (W x H): 125 x 100 mm
- Case length: screen size +200 mm
- Cut-out dimensions: screen size +300mm
- Surfaces available: Arctiq, GreyLight, Acoustic and FlexRear
- Available formats: 1:1, 4:3, 16:9, 16:10 and 2.35:1
- RF remote, IR remote and AutoLink available (page 34)
- Quiet motor available (page 8)
- Recessed ceiling brackets available (page 8)



Mount the Sesame 2.0 case in advance and screen later.



PREMIER - flat surface and wrinkle free with Tab Tensioning System

- Pentagonal white steel case, black case available on request
- Motor-in-roller design provides reliable, silent operation
- Case size (W x H): 134 x 150mm
- Surfaces available: M1300, HiDef Grey and M2500
- Available formats: 1:1, 4:3, 16:9, 16:10 and 1.85:1
- Custom sizes available on request
- Ceiling Opening Trim Kit available (page 8)
- IR remote and RF remote available (page 34)
- Quiet motor available (page 8)



Pentagonal white case as standard.



Case for larger Premier screens.



LINEA TAB TENSION - elegant Tab Tension screen

- TabTension for a perfectly flat screen surface
- Viewing surface flatness to be easily adjusted at bottom bar
- Case size (W x H): 121 x 153mm
- 3 metre hard wire cable included
- Surfaces available: FlexWhite, FlexGrey, FlexRear and ReAct
- Available formats: 4:3, 16:9, 16:10 and 2.35:1
- Custom sizes available on request
- RF remote, IR remote and AutoLink available (page 34)
- Quiet motor available (page 8)



Elegant matt white aluminium case.



Tab Tension for flat surface.



ROYAL ELECTRIC - *the large electric screen*

- White aluminium case for width up to 450 cm
- White wooden case for sizes over 450 cm
- Suitable for wall or ceiling mounting
- 3 metre hard wire cable included
- Robust matt white screen surface as standard
- Case size (W x H): 165 x 170 mm (up to 450 cm)
- Case size (W x H): 220 x 220 mm (500 cm and larger)
- Available formats; 1:1, 4:3 and 16:9
- RF remote, IR remote and AutoLink available (page 34)



White aluminium case is used for width up to 450 cm.



White wood case is used for width over 450 cm.

QUIET MOTOR

- Reduces motor noise by approximately 30%



RECESSED CEILING BRACKETS

- Brackets for recessed ceiling mount
- Adjustable height
- Allows the screen to be attached to a structural ceiling up to 100 cm above the suspended ceiling.



CEILING OPENING TRIM KIT

-for ceiling-recessed Luma 2, Targa and Premier

- Designed for ceiling-recessed installation of Luma 2 manual screens, or Targa and Premier electric projection screens (does not work with large size Targa and Premier)
- The kit attaches to the screen endcaps and forms a finished slot in the ceiling allowing for passage of the projection screen surface
- Painted white to match most ceilings
- Screen case can be installed less than 2" above finished ceiling



NEW!

INSTALLATION SERVICE

Draper Group Ltd provides installation service throughout the entire UK. No proposal is too small or too big for us to handle; try us out!



TARGA - contemporary electric screen

- Pentagonal white steel case with universal mounting brackets
- Motor-in-roller design provides reliable, silent operation
- Case size (W x H): 134 x 150mm in standard case
- Surfaces available: Matt White, High Contrast Grey and Glass Beaded
- Available formats: 1:1, 4:3, 16:9, 16:10 and 1.85:1
- Ceiling Opening Trim Kit available (page 8)
- IR remote and RF remote available (page 34)
- Quiet motor available (page 8)



Standard case.



Case for sizes over 406 cm wide.



DIPLOMAT Electric - the bestseller of Euroscreen®

- White aluminium case
- Channel Fix cassette for flexible installation
- Suitable for wall or ceiling mounting
- Case size (W x H): 88 x 104mm
- Bottom bar from wall: 48mm
- Surfaces available: Arctiq, GreyLight, Acoustic and FlexRear
- Available formats: 1:1, 4:3, 16:9 and 16:10
- RF remote, IR remote and AutoLink available (page 34)
- Quiet motor available (page 8)



Channel Fix case for flexibility.



New design of bottom bar.



BARONET/HW - popular compact electric screen

- Pentagonal steel case with scratch-resistant white polyester finish
- Suitable for wall or ceiling mounting
- Case size (W x H): 85 x 95mm
- Surfaces available: Matt White, High Contrast Grey and Glass Beaded
- Available formats: 1:1, 4:3, 16:9, 16:10 and 1.85:1
- Custom sizes available on request
- IR remote and RF remote available (page 34)



Baronet; pentagonal case.



IR wall control for Baronet.



CONNECT Electric - electric screen with easy installation

- Standard white steel case
- Very easily attached to wall or ceiling
- Bottom bar sits close to the wall
- New design of bottom bar for a flatter viewing surface
- Case size (W x H): 75 x 75mm
- Case length: screen size +91mm
- Available in Arctiq screen surface
- Available in 1:1, 4:3 and 16:9 format
- RF remote, IR remote and AutoLink available (page 34)



Plug n' Play feature as standard.



Connect Electric in 16:9.





LUMA 2 - Draper® largest manual screen

- Pentagonal white steel case for large projection screens
- Suitable for wall or ceiling mounting
- Case size (W x H): 133 x 148mm
- Surfaces available: Matt White, High Contrast Grey and Glass Beaded
- Available formats: 1:1, 4:3, 16:9, 16:10 and 1.85:1
- Ceiling Opening Trim Kit available (at right)
- AutoReturn available (at right)



Luma 2; pentagonal case.



Optional extension wall bracket.

MORE ACCESSORIES ON PAGE 39.

EXTENSION WALL BRACKETS

- For use with screens through 244cm wide
- 15cm & 30cm Extension; non-adjustable (244cm wide max)
- 46-60cm Extension; adjustable (244cm wide max)



CEILING OPENING TRIM KIT

- for ceiling-recessed Luma 2, Targa and Premier

- Designed for ceiling-recessed installation of Luma 2 manual screens, or Targa and Premier electric projection screens (does not work with large size Targa and Premier)
- The kit attaches to the screen endcaps and forms a finished slot in the ceiling allowing for passage of the projection screen surface
- Painted white to match most ceilings
- Screen case can be installed less than 2" above finished ceiling



AUTORETURN

- The roller mechanism gently raises the screen surface back into the case with a simple tug on the handle/pull cord



NEW!

INSTALLATION SERVICE

Draper Group Ltd provides installation service throughout the entire UK. No proposal is too small or too big for us to handle; try us out!



LUMA - reliable wall/ceiling screen

- Spring-roller operated screen in pentagonal white steel case
- Attractive, sturdy and friction-free case
- Case size (W x H): 83 x 95mm
- Surfaces available: Matt White, High Contrast Grey and Glass Beaded
- Available formats: 1:1, 4:3, 16:9, 16:10 and 1.85:1
- Custom sizes available on request
- AutoReturn available (page 11)



Luma; pentagonal case.



Optional extension wall bracket.

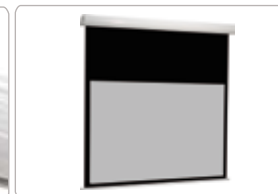


DIPLOMAT Manual - comprehensive wall/ceiling screen

- White aluminium case
- Channel Fix cassette for flexible installation
- Suitable for wall and ceiling mounting
- Case size (W x H): 88 x 104mm
- Bottom bar from wall: 48mm
- Surfaces available: Arctiq, GreyLight, Acoustic and FlexRear
- Available formats: 1:1, 4:3, 16:9 and 16:10
- Custom sizes available on request
- AutoReturn available (page 11)



Channel Fix case.



GreyLight screen surface.



New design of bottom bar.



STAR - economy and durability

- Economical manual screen for classroom use
- Cylindrical white steel case
- Universal mounting brackets
- Suitable for wall or ceiling mounting
- Case size (W x H): 70 x 80mm
- Available in Matt White screen surface
- Available in 1:1 format
- Extension wall brackets available (page 11)



Star; cylindrical case.

Optional extension wall bracket.



CONNECT Manual - the easiest installation

- Standard white steel case
- Very easily attached to wall or ceiling
- Bottom bar sits close to the wall
- New design of bottom bar for a flatter viewing surface
- Case size (W x H): 75 x 75mm
- Case length: screen size +91mm
- Available in Arctiq screen surface
- Available in 1:1, 4:3 and 16:9 format
- Optional brackets available (page 39)



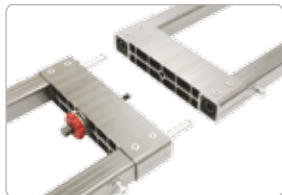
Quick & easy installation.

New design of bottom bar.

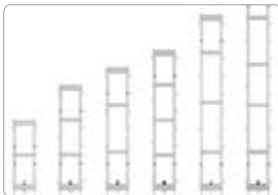


NEW! STAGE SCREEN - *revolutionary modular design*

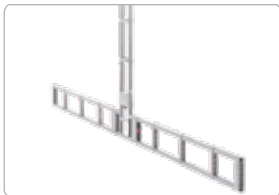
- Portable modular screen in virtually any size
- Ideal for rental and staging, may be freestanding or flown
- Extremely rigid and durable
- No hinges to break. No small cranks to lose.
- Built of 8" truss sections; surface attaches quickly without snaps or velcro
- Sets up in about half the time required for a traditional truss folding screen
- One set of frame sections may be assembled to different screen sizes
- Expand your inventory just by adding extra viewing surfaces



Very easy and quick set up.



Set of frame sections in different lengths.



Can also be used with legs.



TRUSS-STYLE CINEFOLD - *large folding portable screen*

- Includes truss frame and legs, snap-on-surface with protective soft case, heavy-duty leg stabilizers and frame stiffeners
- Scratch-resistant finish in silver powder coat
- Black powder coat available on request
- Surfaces available: Flexible Matt White or Cineflex
- Available formats: 1:1, 4:3 and 16:9
- Includes rugged, molded polyethylene carrying cases with wheels
- Dress kit available in black velour or IFR (Inherently Flame Resistant) velour



Heavy-duty leg & anti-sway stabilizer.



Black dress kit in cotton velour.



Durable construction.



ULTIMATE FOLDING SCREENS (UFS) - 100% CNC

- Large portable, foldable projection screen
- Suitable for staging and rental applications
- Sturdy frames and legs, easy to assemble
- Surfaces available: Flexible Matt White or Cineflex - for maximum flexibility, choose both!
- Available formats: 4:3 and 16:9
- Protective heavy-duty molded carrying case with wheels included
- Dress kit available in black velour or IFR (Inherently Flame Resistant) velour



Corner Hinge open.



Optional dress kit
- for a professional appearance.



Protective carrying case included.



ROAD WARRIOR - ultra-portable screen

- Self-contained, black tubular aluminium case
- Easy set-up; put it on the floor or table, open case and lift to desired height
- Surfaces available: Matt White, High Contrast Grey and Glass Beaded
- Available formats: 4:3 and 16:9
- Includes 2 cm black borders and 76 cm black "rise" to clear a standard tabletop
- Thick padded carrying case with zipper and removable shoulder strap available



The RoadWarrior in closed position.



Protective carrying case available.



TRAVELLER - *attractive and simple*

- Self-contained, black tubular aluminium case
- Easy set-up – put it on the floor or table, open case and set up telescopic upright to desired height, then lift screen surface to top of upright
- Surfaces available: Matt White, High Contrast Grey and Glass Beaded
- Available formats: 4:3, 16:9 and 16:10
- Includes 2 cm black borders and 107 cm black “rise”
- Thick padded carrying case with zipper and removable shoulder strap available



Available in 4:3, 16:9 and 16:10.



Protective carrying case optional.



CONNECT FLOOR - *screen for people "on the road"*

- Available in black or white steel case
- Easy and convenient to set up, ideal for portable presentations
- Very slim when not in use
- Easy to carry and store
- Arctiq screen surface
- Available formats: 1:1, 4:3 and 16:10
- Black padded carrying bag available



Optional carrying bag.



New! Connect Floor now also available in white finish.

NEW COLOUR!



TRIPOD DIPLOMAT - *elegant workmanship and high quality*

- Sturdy tripod screen with black case finish
- Built-in keystone eliminator extends 46 cm
- Patented Bell Leg Lock – clamps legs securely to centre tube for storage and transportation
- Surfaces available: Matt White and High Contrast Grey
- Available formats: 1:1 and 4:3 (black borders standard on 4:3 format)
- Black carrying case with zipper, made of tough woven polyester with PVC backing



Bell Leg Lock.



Black carrying case available.



Built-in keystone eliminator.



TRIPOD CONNECT - *for a flexible use*

- Portable tripod screen with black steel case
- Easy to set up
- Screen height above ground floor: 42-80cm
- Surfaces available: Arctiq and GreyLight
- Available in 1:1 format
- Custom sizes available on request
- Black padded carrying bag available



Tripod for easy set up.



Easy adjustment of height.



CONSUL - *economy and durability*

- Lightweight, economical tripod screen for classroom use
- Black case finish
- Matt white viewing surface
- Available in 1:1 format
- 38 mm black masking borders available on request
- Available with or without keystone eliminator – will extend top viewing surface up to 23 cm



Tripod for stability.

CUSTOM PRINTING



Build your brand with a company message or logo printed directly on your screen. Available for portable, manual, or electric projection screens.

Your message will be permanently displayed just above or below the projected image, for maximum visibility. Especially effective for sales presentations and trade shows.



Oxygen™ introduces a perfect solution for your own home theatre!

Oxygen's purpose is to give you a satisfying viewing at an affordable price. We can keep our low prices due to our own development team and our cooperation with worldwide manufacturers.

OXYGON Manual

- White steel case with a spring-loaded roller system
- Equipped with black drop above the viewing area (120 mm in 4:3 and 350 mm in 16:9 format screens)
- Black borders (40 mm)
- Matt white with a gain of 1.0
- Install both onto wall or in the ceiling



Oxygen Manual case

OXYGON Movielux

- Equipped with a steady light grey steel case
- The screen is raised and set to required height with an adjustable pole



OXYGON Electric

- Balanced viewing surface (gain 1.0)
- Equipped with black drop above the image area (120 mm in 4:3 and 350 mm in 16:9 format screens)
- Black borders around the viewing surface (40 mm)
- IR remote control included
- Easy to install



Oxygen Electric case

IR control included

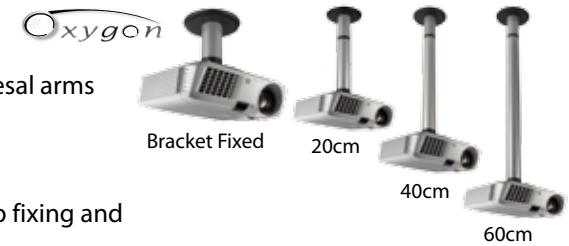
OXYGON Frame

- Especially suitable for home theatre environments
- Black steel velvet coated frame (80 mm wide and 32 mm deep)
- The velvet coated frame reduces surrounding reflections and provides a higher viewing experience.
- Matt white surface with a gain of 1.0.
- Delivered in parts which is easily assembled, and the mounting gives opportunity for fine-tune installation onto the wall.



OXYGON Brackets

- Fits most projectors thanks to universal arms
- manages up to 25 kg
- Overall assembled height 25 cm
- Will rotate 360° and tilt or roll 15°
- Bracket Fixed; complete kit with top fixing and projector fixing
- Sizes of extension poles; 20cm, 40cm and 60cm



OXYGON Tripod

- For a flexible use "on the road"
- Equipped with a sturdy tripod
- Matte white screen fabric without borders
- Light weight (7kg in size 120x120 cm)





ONYX - adjustable surface tension

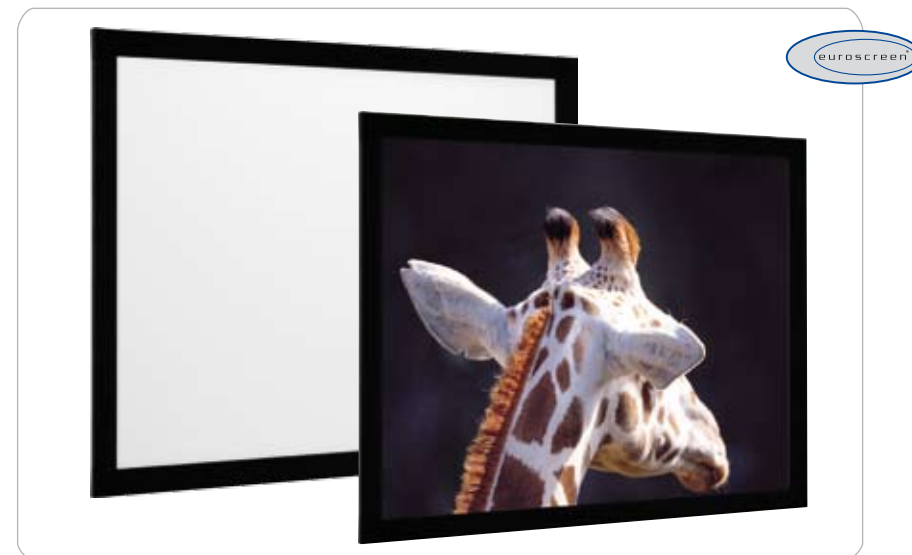
- Fixed screen with 10 cm beveled, extruded black aluminium frame
- Patented fabric retention system applies uniform tension to the entire viewing surface, maintaining perfect flatness
- Surfaces available: M1300, HiDef Grey, M2500 and Cineflex
- Available formats: 1:1, 4:3, 16:9, 1.85:1 and 2.35:1
- Custom sizes available on request
- Vel-Tex fabric frame trim available which eliminates reflections on the frame



10 cm aluminium frame.



10 cm Vel-Tex fabric frame trim.



FRAME VISION - wide aluminium frame

- Fixed screen with 10 cm black aluminium frame
- Perfectly flat viewing surface
- Easy to assemble
- Surfaces available: FlexWhite, FlexGrey, FlexRear, Acoustic and ReAct
- Available formats: 4:3, 16:9 and 2.35:1
- Custom sizes available on request
- Vel-Tex fabric frame trim available which eliminates reflections on the frame



10 cm aluminium frame.



10 cm Vel-Tex fabric frame trim.



CLARION - attractive fixed projection screen

- Fixed screen with 5 cm beveled, extruded black aluminium frame
- The fabric attaches to the frame without snaps or tools, forming a perfectly smooth surface
- Surfaces available: M1300, HiDef Grey, M2500 and Cineflex
- Available formats: 1:1, 4:3, 16:9, 16:10, 1.85:1 and 2.35:1
- Custom sizes available on request
- Vel-Tex fabric frame trim available which eliminates reflections on the frame



5 cm Vel-Tex fabric frame trim.

5 cm aluminium frame (back).



FRAME VISION LIGHT - fixed screen easy to assemble

- Fixed screen with 5 cm black aluminium frame
- Perfectly flat viewing surface
- Easy to assemble
- Surfaces available: FlexWhite, FlexGrey, FlexRear, Acoustic and ReAct
- Available formats: 4:3, 16:9 and 2.35:1
- Custom sizes available on request
- Vel-Tex fabric frame trim available which eliminates reflections on the frame



5 cm aluminium frame.

5 cm Vel-Tex fabric frame trim.



FLAT SCREEN LIFT - *raise it into view for "showtime"*

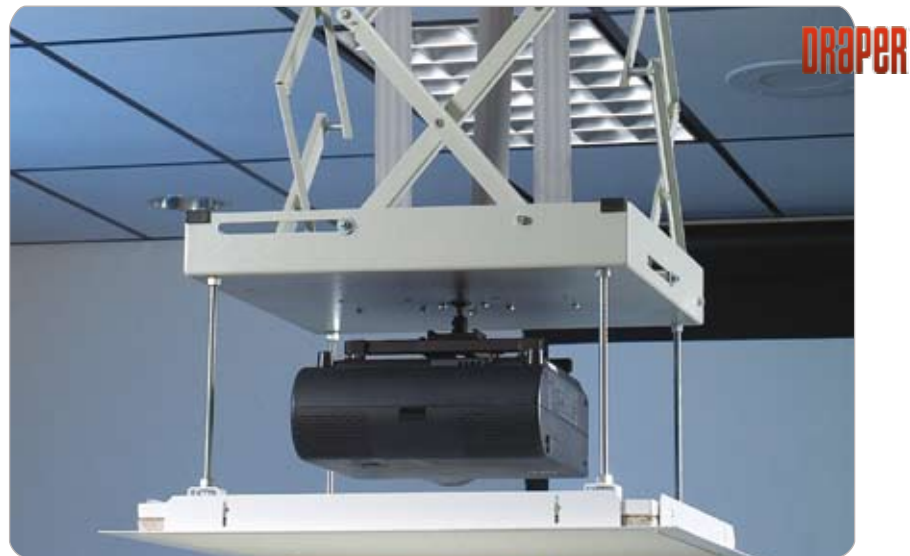
- Install the Flat Screen Lift easily inside your own custom cabinet or furniture
- The most compact lift available when stored, yet it can lift a flatscreen higher than any competitive product
- Available in three sizes
- Lift width without mounting bracket: 43 cm
- Overall lift depth: 10.3 cm
- Max. weight capacity: 95.3 kg
- Universal display bracket included



Install inside custom furniture.



The compact Flat Screen lift can rise 2½ times its closed height.



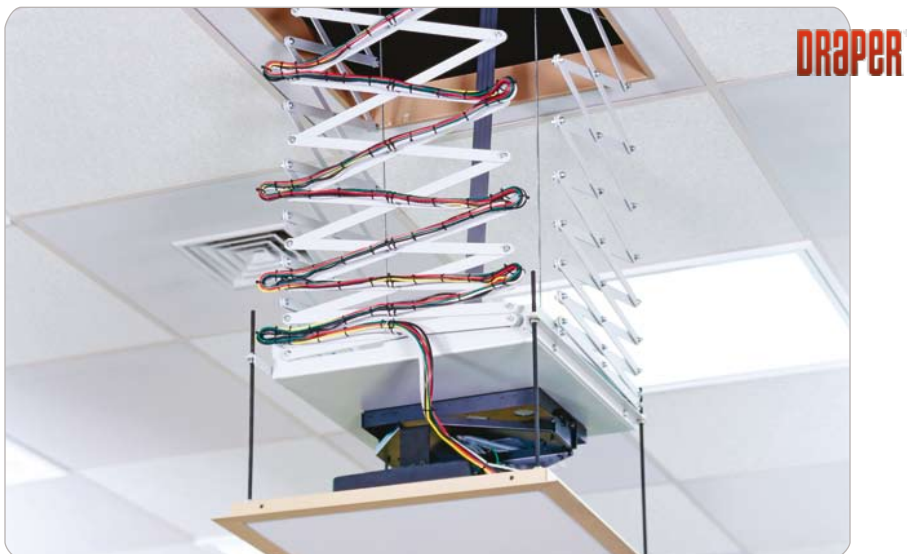
MICRO PROJECTOR LIFT (MPL) - *UL listed scissor-style lift*

- Compact projector lift ideal for smaller projectors
- Designed to fit within a 61 x 61 cm ceiling grid system
- Lowers the projector up to 122 cm with compact scissor mechanisms
- Patented three sets of scissors - left, right, and rear - stabilize projector laterally and front-to-back
- Retracted height: 13 cm
- Lifting capacity: 16 kg
- Control options and accessories available (page 28)



Patented three sets of scissors.





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SCISSOR LIFT - *scissor lift with "store, show and service" positions*

- Conceal your projector above the ceiling; set it exactly where you need it at presentation time; bring it down to within easy reach for service
- Available in 14 models: 518 cm max. lowering distance (select model based on the maximum lowering distance needed for easy access for servicing)
- Three sets of scissors—left, right and rear—stabilize projector laterally and front-to-back
- Projectors can be bolted directly to the lift's bottom pan, or mounted with the optional Low Profile Mount (page 29)



Lowering distance up to 518 cm.



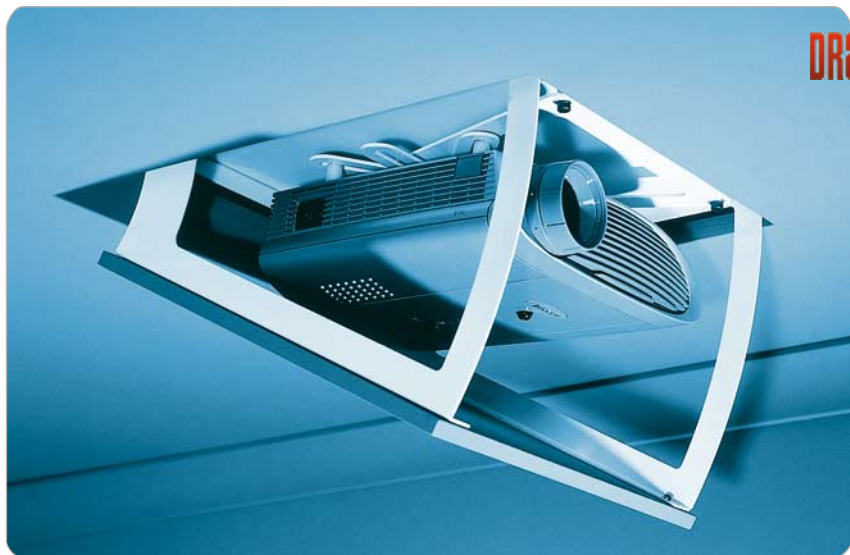
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AEROLIFT - *keeps overall footprint and height to a minimum*

- Powered by a strong tubular motor for a simplified design
- Stabilizing arm which can be used for cable management
- Built-in adjustability allows you to deal with job site conditions easily
- Also may be used to recess speakers, security cameras, videoconferencing cameras or document cameras
- 3 sizes available: choose based on desired weight capacity 10, 23 or 68 kg
- Projectors can be bolted directly to the lift's bottom pan, or mounted with the optional Low Profile Mount (page 29)



The AeroLift is available in 3 sizes.



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PHANTOM - *reveals itself at just the right time*

- Compact lift conceals the projector above the ceiling
- Also available for installation in table top or other piece of furniture
- Motorized closure panel lowers projector to operating position
- Two models to choose from as determined by size of projector
- DC Low Voltage Motor (24V) which allows for easier control and wiring of the lift
- Lifting capacity: 12 kg
- Wall switch included, control options and accessories available (page 28)



The Phantom can also be installed inside a table.



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ORBITER - *rotates into position*

- Compact lift conceals the projector above the ceiling, rotates into position when triggered
- Orbiter works in ceilings, walls, or tables, and can conceal flat panel displays, videoconferencing cameras, or speakers
- DC Low Voltage Motor (12V) which allows for easier control and wiring of the lift
- Lifting capacity: 12 kg
- Wall switch included, control options and accessories available (page 28)



Installation options for Orbiter: ceiling, wall or even table.



LCD LIFT - *fits most LCD/DLP projectors*

- Most popular projectors fit comfortably inside this ceiling recessed unit
- Bomb bay style closure doors are standard
- Environmental Airspace housing is aluminium, with closure doors finished in white
- Sensor delays closing of the unit until the projector fan has shut off
- Two models to choose from as determined by size of projector
- Lifting capacity: 29 kg
- Control options and accessories available (page 28)



Bomb bay doors are standard.



REVELATION - *you won't see or hear the projector*

- Conceals the projector above the ceiling permanently
- The projector's noise and heat are isolated above the ceiling
- At the touch of the switch or remote, the motorized door lowers and moves the first-surface glass mirror into the operating position
- Mirrors are optical grade glass - 94% reflective
- Fits into a 61 cm x 61 cm grid style ceiling
- Two models to choose from as determined by size of projector
- Control options and accessories available (page 28)



The Revelation projector lift in position.

PROJECTOR LIFT CONTROLS

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- Optional IR remote and RF remote controls for projector lift operation
- Compatible with LVC-III and DC Motor Control



LOW VOLTAGE CONTROL MODULE (LVC-III)

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- Enables RF or IR control with the Micro Projector Lift and Revelation.



DC MOTOR CONTROL (not CE approved)

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- Enables RF or IR control with the Phantom and Orbiter.



CEILING ACCESS DOOR

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- Install this door next to any ceiling-recessed Draper® projector lift to ensure easy access to service the projector or lift
- 61 cm x 61 cm hinged door
- White painted finish or recessed to accept ceiling tile
- Prevents damage to ceiling

ANGLED CEILING ADAPTER

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- Allows Orbiter to be installed in angled ceilings or walls

CEILING FINISH KIT

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- Consist of ceiling closure panel and mating trim ring
- Available for MPL, Scissor Lift and AeroLift

LOW PROFILE MOUNT

- Fixed mount for "low profile" ceiling installations
- For projectors weighing less than 12 kg
- Places top of projector 13 cm from ceiling
- Ball joint adjusts infinitely up to 30° roll and 360° yaw
- May be used in most Draper® projector lifts



MULTIMEDIA PROJECTOR MOUNT

- Adjustable projector mount: 610-1170mm
- Maximum load: 25kg
- Can accommodate for heights between 610mm up to 930 or 1170mm from ceiling to projector



PROJECTOR MOUNT CL F

- A construction and design that is strong and reliable yet blends well with the decor
- Hidden cable channel
- Easy to mount
- Available in two sizes: 75 mm or 250 mm



PROJECTOR MOUNT CL V

- Elegant design and reliable yet very functional
- Adjustable pillar
- Easy to mount
- Easy to adjust
- Available in 2 variable lengths: 650 - 900 mm or 1050 - 1300 mm



UNIVERSAL PROJECTOR MOUNT

- Sturdy 1.5m pole can be cut to length required
- Adaptable design picks up any projector mounting points
- Cables can be hidden in pole for a smart appearance
- Minimum length 150mm/max. 1500mm





AV CABINET - modern and stylish mobile AV cabinet

- Designed for ease of use, blends in well in most modern environments
- 3 shelves: the two bottom ones have adjustable heights
- Top shelf can slide out, up to 26 cm
- Two solid lockable doors, front and back
- Integrated cable management throughout cabinet for ease of installation
- 2 sturdy cable-tidies to wrap cables around and ventilation grills
- Available in beech and grey finish
- Mobile Lectern Top available (page 32)
- 19" rack available



Remove shelf and install 19" rack.



Optional 19" rack.



SENATOR LECTERN - high quality for long lasting good looks

- Integrated keyboard drawer, pulls out on runners for easy access
- Large cupboard to house range of equipment
- Large flat top area 80 x 60 cm
- Supplied with two internal shelves, each 60 x 50 x 1.8cm
- Integrated 19" rack strip, 15 U high (73 cm)
- Security cover, affixed with Allen screws, over front of rack strip
- Double lockable doors and lockable access panel to the front
- Ventilation grills assist airflow to cool equipment inside
- Beech or grey finish as standard, other finishes available on request



Senator Lectern a perfect choice for classrooms.



NEW! GOVERNMENT LECTERN - *functional lectern for presentations*

- Very durable construction yet very smart appearance
- Large flat top area to accommodate laptop, presenter's notes etc
- Includes two built-in shelves for storage
- 2 sides mounted slide-out shelf for AV presentation equipment
- Integrated keyboard drawer, pulls out on runners for easy access
- Integrated cable management for ease of installation
- Beech finish as standard, other finishes available on request



Government Lectern a functional lectern for classrooms and meeting rooms.



PRESIDENT LECTERN - *durable construction & smart appearance*

- Sloping surface, facing presenter, for integration of touch screen control system, monitor or notes towards user
- Supplied with two internal shelves, each 60 x 50 x 1.8cm
- Integrated 19" rack strip, 13 U (63 cm) high
- Security cover, affixed with Allen screws, over front of rack strip
- Double lockable hinged doors with locks (fold back to side)
- Lockable panel to the front for easy access to rear of equipment
- Ventilation grills assist airflow to cool equipment inside
- Beech finish as standard, other finishes available on request



Double width version available for applications requiring more storage space and/or working surface.

NEW! LECTERN TOP - *transform into a presentation lectern*

- A mobile lectern top for the AV Cabinet
- No mounting is needed, just lift top on/off the AV Cabinet
- Integrated cable management for ability to place laptop on top surface
- Fold down top board hold notes and hide objects
- Total size (WxHxD): 57 x 66 x 17 cm
- Top area (WxH): 53 x 28 cm
- Shipping weight: 10 kg
- Available in beech or grey finish
- Mini screen available
 - print your logo/message onto the mini screen which will cover the front of the AV Cabinet and at the same time display your message to the viewers

**AVX12** - *lightweight portable projector, computer or data stand*

- With two sturdy shelves.
- Basic shelf max. weight capacity 8 kg
- Additional shelf max. weight 4 kg
- Easy set up and manipulation.
- Foldable and portable.
- Grey or anthracite/beech finish available

**AV1000** - *adjustable standard trolley*

- A standard trolley for easy moving of projector
- Height can be adjusted; from 620 mm to 1050 mm
- 4 wheels with two locking castors
- Grey finish available

**AV1100** - *high end trolley with optional shelf*

- Single column trolley with one platform
- Adjustable in height and inclination
- Equipped with 4 wheels with two locking castors
- Grey or anthracite/beech finish available
- Optional shelf available



AV750 - mobile standard overhead projector trolley

- With one multi height and micro adjustable centre shelf and one side shelf
- Equipped with 4 wheels with two locking castors
- Grey or anthracite/beechn finish available
- Additional side table and bottom shelf available

**PROJECTOR LAMPS**

- 24V/250 Watt
- 36V/400 Watt

QUADRA OHP - simplicity and easy set-up

- Designed for quick and easy set-up
- Surprising simplicity and quality
- 4 different models (250 W and 400 W) for various education and business applications
- Equipped with unique optical elements

**SAVA - portable overhead projector**

- Available in two versions: with either electronic or classic transformer
- The electronic version is lighter and works best in areas with unstable power supply
- Easy set up and adjust
- Silent cooling system
- Perfect picture due to the top optical elements (3-element vario projection lens and condenser)
- A handy case is included in the standard package

**STANDARD DESKTOP OHP - high performance and low noise**

- Available as Standard Twin 250 250W and Standard Twin 400 - 400W Standard Desktop Overhead Projector
- Conveniently situated controls
- High performance optics
- Impressive light output
- Twin lamps for convenience
- Fine focus/fringe control
- Reliable and low noise
- Pocket for cable storage



IR REMOTE CONTROL

- Control screen with a hand held remote control
- Transmitter has approximately 15 m range without obstructions



RF REMOTE CONTROL

- Control screen with a hand held remote control
- Wireless control up to 30 meters away from receiver



AUTOLINK

- Turn projector on and the AutoLink triggers the screen to roll down, when projector is turned off the screen automatically retracts
- IR controlled: transmitter has approximately 15 m range without obstructions

AUTOLINK EXTENDER

- AutoLink Extender for concealing of AutoLink devices



All Draper® motorized screens are furnished with one standard 3-position 220V switch. The following controls are available options.

INFRARED REMOTE CONTROL (IRT/R)

- IR transmitter and receiver. 3-button operation
- Compatible with “learnable” IR master control systems
- Must be ordered with Draper® Low Voltage Control system



DRAPER®

RADIO FREQUENCY REMOTE CONTROL (WRT/R)

- Hand-held or wall-mounted transmitters with 3-button control
- For use only with Draper® Low Voltage Control units



DRAPER®

LOW VOLTAGE CONTROLS (LVC-III)

- Control unit, without switches, is compatible with master control systems
- Equipped with jacks for connection with Draper® RF or IR receivers
- Wiring from control unit to switches is lightweight for 24-volt current



DRAPER®

COMMANDER CONTROL SYSTEM



Commander Control System (CCS) acts as the perfect complement to the Euroscreen® electric projection screen product range. With an impressive list of features not commonly offered in other systems, the wireless Commander Control System is perfect for both new construction and to retro-fit or upgrade older AV systems. Thanks to its wireless communication (RF), the CCS gives designers and architects the freedom to include AV equipment into their designs without visible wires. Powered by batteries, the CCS can be installed virtually anywhere, even in spaces not well suited for electric devices; like bathrooms.

CCS consists of receivers and transmitters communicating by radio signals of 433 MHz, provides communication within a distance of up to 50 meters and also communication through walls if necessary. A range of 30 meters will not be an issue in open areas, under good circumstances even up to 50 meters. In common company environments, where the wireless communication needs to reach through walls the range is 15-30 meters, depending on materials and depth of walls. Despite the long range there is no risk for the communication to be disrupted. Thanks to the unique id each button on the transmitters possess, the units will communicate independently of each other, without any communication conflicts even if CCS would be installed in conference rooms next to each other.

The majority of the receivers can be mounted on a DIN rail and works with 230 V AC, which is often the preferred solution by professionals. However, we also offer Plug n' Play units, a perfect alternative for those who would like to make their own installations without contracting a professional electrician.



CCS IN CONFERENCE ROOM

Rewind six months back and remember when you were planning the refurbishment of the hotel's conference room. In order to compete, the concept of the business had to expand and the conference interior was the main focus. The devices had to be high tech and at the same time not too complicated, which meant that an easy to use control system was a top priority. You did not want your guests to spend valuable time on complicated technical equipment so you wanted light, projectors, sound system, window shades and all other equipment to be controlled from one single control unit. In addition to all that, another requirement was the possibility to completely conceal the audiovisual equipment in order to maintain an stylish environment. Now, a few months later, you are very pleased with the renovation; the installation of the wireless control system was quick and easy, and since the system is so easy to use it is a huge success among the guests.





CCS IN AUDITORIUM

Picture yourself as the tutor, just minutes before your students' final exam. The exam is a verbal presentation and quite a few students who have postponed their presentation until last minute. Bound to be a tight schedule! Fortunately the department updated their audiovisual equipment recently, which makes everything a lot easier. By only pushing one single button, the projector is turned on, window shades and projection screen roll down and the lights turn off. No more lost or mislaid of all the different remote controls! You are satisfied because the new control system will save valuable time and allow the students to use different media, like computer and DVD player, without hassle. With no time wasted, there will also be enough time to have a brief discussion in class after each visual presentation. It is time to get started and if you are lucky you will make it before noon.



CCS FOR DIGITAL SIGNAGE

This scenario takes place in the shop at closing time. The last customers have just left and if you are in luck you will make it to the bus that leaves in 20 minutes. You put the lights out in the store and go to the office in the back to check the sales of the day, which luckily seem to be good. Hurriedly you pick up your coat, make the exit and lock up the store behind you. On the way over to the bus stop you turn around and double check that the projectors are operating for the evening traffic. The projectors are turned on until midnight then shut down automatically to save on lamps and energy. There are still a few minutes until the bus will get there so there will be no problems to make it home.





Commander Transmitter, 2 Channel Contact Closure

Transmitter: CCS007

Able to transmit information about contacts status in given equipment. Together with a time switch this can be used in practice to turn on and off a projector in a shop windows at night.



Commander Transmitter, 2 Button, Wall

Transmitter: CCS011

Commander Transmitter, 4 Button, Wall

Transmitter: CCS012

It is possible to mount this 16 mm depth transmitter practically everywhere. On flammable surfaces, in a bathroom, on glass, etc., yet there is no risk of injury being caused by electricity or risk of fire. The transmitter is powered by a 3 V battery with 10 years life time. The transmitter is mounted using screws or double sided adhesive tape.



Commander Transmitter, 4 Button Remote Control

Transmitter: CCS010

Portable transmitter enables remote control of up to four independent appliances. It can be used for several systems, everything managed with the same remote control. It is characterised by its small parameters and its relatively wide reach. Wall mounted pocket is included.

NEW!



NEW!



Frame, Two Wall Transmitter, horizontal

Transmitter: CCS015

Frame, Two Wall Transmitter, vertical

Transmitter: CCS016

This frame makes it possible to mount two wall transmitters (CCS011 and CCS012) in the same frame.

**Product is delivered without any transmitters, just the frame.
The transmitters has to be ordered separately.**



Commander Transmitter, 12 Button Keyboard

Transmitter: CCS013

If you need to operate a few more functions. It can be fixed to a wall or into furniture, and since it is wireless it can also be used as a remote control. The transmitter is powered by batteries so there is no risk of injury being caused by electricity or risk of fire.



Commander Screen Receiver

Receiver: CCS001

It handles AV appliances as projectors, flat screens and amplifiers. With a software it can be configured to transmit any type of command on the RS232 port. It handle baud rates of 600 - 115200 bps with optional data length and parity. It has also a relay with the functions ON, OFF, ON/OFF, PUSH and TIMER. Available as Plug n' Play, product code CCS030 (shown in left picture).



Commander Transmitter, Infrapassive Switch

Transmitter: CCS017

It is activated by the body heat of moving people or animals or by heat of other objects. It works in; a) ON/OFF mode: the transmitter sends one signal for turning on and a signal for turning off of the appliance. b) ON mode: the transmitter sends only signal for turning on.

NEW!



Commander RS232 Module

Receiver: CCS002

It handles AV appliances as projectors, flat screens and amplifiers. With a software it can be configured to transmit any type of command on the RS232 port. It handle baud rates of 600 - 115200 bps with optional data length and parity. It has also a relay with the functions ON, OFF, ON/OFF, PUSH and TIMER. Available as Plug n' Play, product code CCS031 (shown in left picture).





Commander IR Module, 4 codes, Receiver: CCS032

This is a wall-mounted receiver, which is mounted onto a standard installation box. If the DVD player or the amplifier has not got any RS232 control it can be operated with this IR unit instead. It got space for 4 IR codes and it is possible to use one IR emitters. Plug n' Play.



Commander Receiver Two Channel Relay Module (230 Volt) Receiver: CCS008

Commander Receiver Two Channel Relay Module (12 Volt) Receiver: CCS009

This is a wall-mounted receiver, which is mounted onto a standard installation box. The receiver is designed for control of two independent circuits. The relay has the functions ON, OFF, ON/OFF, PUSH and TIMER. Plug n' Play.



Commander IR Module, 16 codes Receiver: CCS033

This is a wall-mounted receiver, which is mounted onto a standard installation box. If the DVD player or the amplifier has not got any RS232 control it can be operated with this IR unit instead. It got space for 16 IR codes and it is possible to use two IR emitters. Plug n' Play.



Commander One Relay Module Receiver: CCS003

This is a slave module that has to be mounted onto the DIN rail next to a main receiver (CCS002, CCS004 and CCS006). The relay has the functions ON, OFF, ON/OFF, PUSH and TIMER. The connection between modules is done through an optical connection. With one main receiver it is possible to install up to 15 slave modules in one row.



Commander Light Dimmer Module Receiver: CCS005

With this receiver it is possible to dim bulbs and halogen lamps, using one or two buttons on the transmitter.



Commander Eight Relay Module Receiver: CCS004

This receiver is intended for control of up to eight different and independent appliances, up to 10 A each. One of the relays is a switch over contact while the rest just makes contact. Except from the functions ON, OFF, ON/OFF, PUSH and TIMER this module also got the possibility to operate, for example a projection screen.



Commander RS232 & Eight Relays Module Receiver: CCS006

Controls audio/video appliances. Besides the functions found in the Eight Relay Module, this module can control projectors, flatscreens, etc. It can be configured to transmit any character string on the RS232 serial port and handle baud rates of 600 - 115200 bps with optional amount of data bits per character and parity.



RS232 Cables - accessories to CCS002 & CCS031 Cables: CCS050 - CCS057

We can offer several different RS232 cables to be able to control projectors and other equipment by using our units. All cables are made to be used to the RS232 Modules within the Commander Control System range. Each cable has a 9-pin D-Sub female connector in one of the ends. The other end of the cable has different types of connectors.

OPTIONAL EXTENSION WALL BRACKET

- For use with screens through 244cm wide
- 15cm & 30cm Extension: non-adjustable (244cm wide max)
- 46-60cm Extension: adjustable (244cm wide max)



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OPTIONAL WALL BRACKET

- Optional wall brackets for manual or electric projection screens
- 15 cm, 30 cm, 50 cm and 75 cm

NEW!



15 cm



50 cm

RECESSED CEILING BRACKETS

- Brackets for recessed ceiling mount
- Adjustable height
- Allows the screen to be attached to a structural ceiling up to 100 cm above the suspended ceiling.



SCREEN CLEANING SPRAY

- Gently spray onto the soiled area and dry with dry cloth
- Wipe off all superfluous fluid to avoid stains on the screen surface
- 250 ml

PULLING CORD

- Attach to the hook in the middle of a manual projection screen
- Black cord with metallic end details
- Available sizes: 75 cm or 120 cm



SUPER MAGNET WITH HOOK

- Strong magnet with hook
- Attach the hook of projection screen to the magnet
- A "must" when using overhead projectors for keystone correction
- Size: 53 x 25 x 10mm



MAGNETIC STRIP

- Adhesive tape easily helps to fix the magnetic strip to the projection screen
- A "must" when using overhead projectors for keystone correction
- 60 cm



DRAWSTICK

- Sturdy aluminium rod
- Red plastic handle and hook
- Available sizes: 100 cm or 140 cm





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