MAGICVIU

Rear & Front
Projection Films

Transform Your
Transparent Surface
MAKE IT A
VIDEO SCREEN

Self-Adhesive Rear Projection Film

MAGICVIU

Projector

Screen

Rear Projection Film

Glass

INDOOR	OUTDOOR

BENEFITS OF REAR PROJECTION FILMS

- All the equipment and cables etc. will also be nicely hidden behind the screen and out of the way
- Superior contrast/resolution
- Improved black levels
- No critical angle of projections
- Compatible with all LCD/DLP/DMD projectors

- Minimalist look using cable suspension system
- Can be used for window / outdoor applications
- Better performance in high ambient light environments than front projection screen.
- No shadows cast over the screen from a presenter or the audience
- Brighter images than conventional projection screens

WHAT IS REAR PROJECTION FILM?

Rear projection film is a paper-thin projection surface with integrated application adhesive for installation on glass and acrylic surfaces. All Screen Solutions rear projection films are designed to be projected onto with any projector type other technology that may be used as a projection source.

WHAT IS REAR PROJECTION?

Rear projection means the projector is placed behind the screen, shooting straight towards the audience.
This allows the screen technology to control the light path distributing bright, sharp images into a predefined viewing zone.
When choosing a rear projector you are choosing one that presents the image from behind the actual screen. This also ensures that the image being viewed is not easily drowned out by light or subject to shadows and so on. Rear projectors create a crisp, clear image that is not easily disturbed.
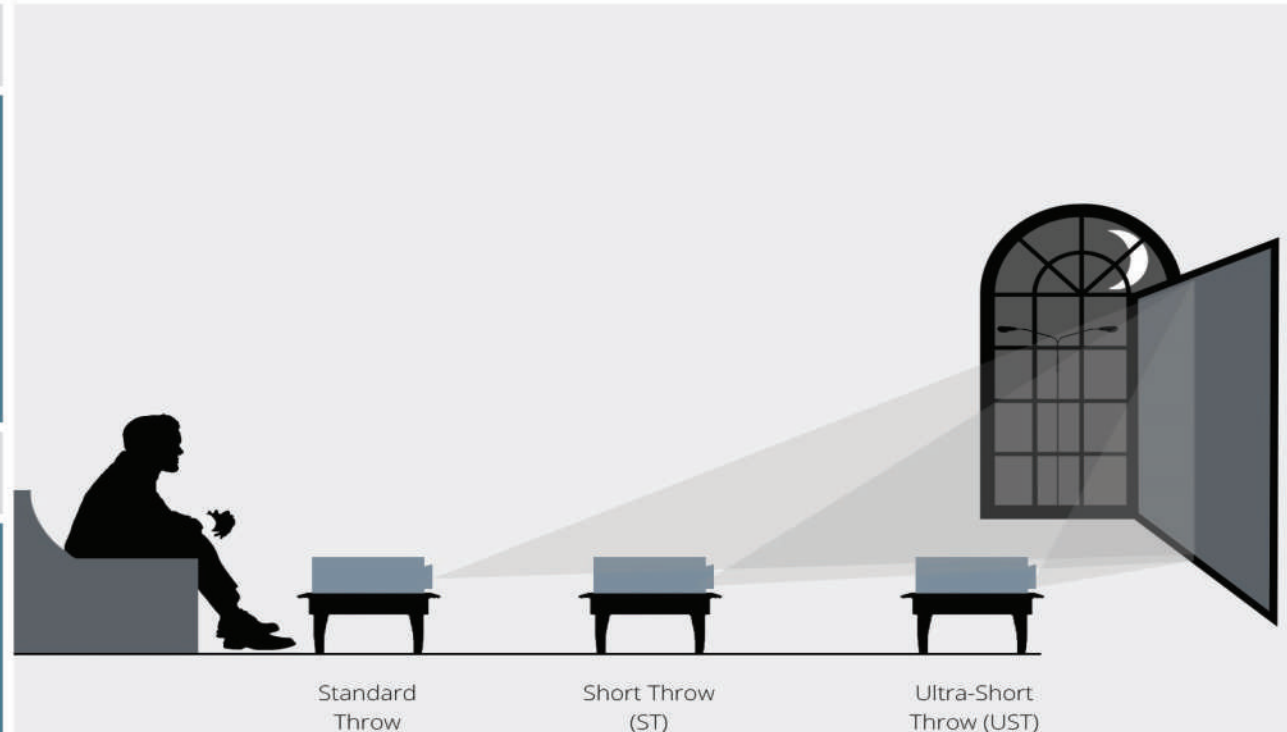
Projector Types

Standard (Normal)

This is the standard and most commonly used projector's type. The distance between the projector and the screen depends on screen size, projector's brightness and throw ratio. The lighter color the film is, the higher lumens projector is required.

Short Throw (ST)

Short throw projectors allow users to create big pictures in tight spaces, without concerns about shadows obstructing the image or light shining in the presenter's face. These projectors have very short throw ratios, the distance from projector to screen compared to the screen size.

Ultra-Short Throw (UST)

Ultra-short throw projectors allow users to create big pictures in a very tight spaces, a "regular" projector with a 1.5:1 throw ratio would have to be 230cm back to project a 60-inch wide image. An ultra short throw projector with a 0.37:1 throw ratio can project the same image from just 55cm away.

Standard
Throw

Short Throw
(ST)

Ultra-Short
Throw (UST)

Screen Size Calculator

Screen Size Diagonal	Screen Size (cm) 16:9 aspect Ratio	Screen Size (cm) 16:10 aspect Ratio	Screen Size (cm) 4:3 aspect Ratio
55"	121,8 x 68,5	121,8 x 68,5	121,8 x 68,5
60"	132,8 x 74,7	132,8 x 74,7	132,8 x 74,7
65"	143,9 x 80,9	143,9 x 80,9	143,9 x 80,9
70"	155,0 x 87,2	155,0 x 87,2	155,0 x 87,2
75"	166,0 x 93,4	166,0 x 93,4	166,0 x 93,4
80"	177,1 x 99,6	177,1 x 99,6	177,1 x 99,6
85"	188,2 x 105,8	188,2 x 105,8	188,2 x 105,8
90"	199,2 x 112,1	199,2 x 112,1	199,2 x 112,1
100"	221,4 x 124,5	221,4 x 124,5	221,4 x 124,5
120"	265,7 x 149,4	265,7 x 149,4	265,7 x 149,4
150"	332,1 x 186,8	332,1 x 186,8	332,1 x 186,8
175"	387,4 x 217,9	387,4 x 217,9	387,4 x 217,9
200"	442,8 x 249,1	442,8 x 249,1	442,8 x 249,1
225"	498,1 x 280,2	498,1 x 280,2	498,1 x 280,2
250"	553,5 x 331,3	553,5 x 331,3	553,5 x 331,3
275"	608,8 x 342,4	608,8 x 342,4	608,8 x 342,4
300"	664,1 x 373,6	664,1 x 373,6	664,1 x 373,6
325"	719,5 x 404,7	719,5 x 404,7	719,5 x 404,7
350"	774,8 x 435,8	774,8 x 435,8	774,8 x 435,8
375"	830,2 x 467,0	830,2 x 467,0	830,2 x 467,0
400"	885,5 x 498,1	885,5 x 498,1	885,5 x 498,1
450"	996,2 x 560,4	996,2 x 560,4	996,2 x 560,4
500"	1106,9 x 622,6	1106,9 x 622,6	1106,9 x 622,6

(Specifications are subject to changes without prior notice)

What does aspect ratio mean?

An **aspect ratio** is a proportional relationship between an image's width and height. Essentially, it describes an image's shape. **Aspect ratios** are written as a formula of width to height, like this: 3:2. For example, a square image has an **aspect ratio** of 1:1, since the height and width are the same.

16:9 , 16:10, & 4:3 are the most common aspect ratios most of the new projectors can project. The ultrawide (Cinematic) 21:9 aspect ratio is getting more trendy and popular by many users lately.

4:3	16:9	16:10

Screen size calculator:

A screen size is usually calculated in diagonal inch. For a quick access and information, we have created this screen size calculator that will help you convert screen diagonal size to width x height in centimeter.

Rear Projection Film Types

Transparent (Clear)

The rear projection transparent (Clear) film is an eye-catching holographic projection film with excellent image results. Using a standard projector placed behind the screen surface, this film provides high contrast and wide viewing angle, the film remains transparent when not illuminated, allowing for see-through the glass or acrylic surface. Transparent film is highly recommended **to use in very low ambient light** (Almost dark).

Light Grey

High quality light grey rear projection film, **works perfect at low-to-medium intensity of ambient light**. The light grey film produces high quality image when used in-door with controllable light brightness.

Dark Grey

Dark grey rear projection film is the **most popular** in the range offering high contrast, brightness and excellent color reproduction for HD quality images. This film **works perfectly in high ambient lighting** and can be used to create cost effective screens in comparison to conventional LCD or LED screens.

White

Wide viewing angle, brilliant image in **high ambient lighting** and superior contrast and resolution, works with front projector as well as the rear projector. The white rear projection film is ideal for high-end applications where image quality & color are of utmost importance.

Budget Series

Properties	Unit	Transparent	Ultra-Transparent	Light Grey	Dark Grey	Milky White	White
Thickness	µm	100	50	100	100	100	100
Film Width	mm	1520	1520	1520	1520	1520	1520
Transmittance	%	82.9	83.4	>20	>10	>20	>10
Haze	%	<30	40	92	96	95	100
Grain	–	0.266	0.225	2.915	2.345	2.794	1.527
Contrast	–	200:1	200:1	400:1	500:1	400:1	500:1
Effective Scattering Angle	o	>150	>150	>31	>31	35	>94
Hardness	H	>2H	>2H	>2H	>2H	>2H	>2H
Features & Applications	–	Holographic Effect, 3D	Holographic effect, 3D	For medium Brightness locations High Contrast	For medium Brightness locations High Contrast	For medium Brightness locations	Dry arase, Front Projection
UV/Cut	%	99	99	99	99	99	99
Projector Side	–	Rear/Front	Rear/Front	Rear	Rear	Rear	Front
Screen Resolution (Sharpness)		125 pairs/mm	125 pairs/mm	125 pairs/mm	125 pairs/mm	125 pairs/mm	125 pairs/mm

(Specifications are subject to changes without prior notice)

VIDEOS ON WINDOWS

The use of communication on store front, shop windows, corporate buildings is increasing rapidly with the rise of digital signage, out of home advertising and dynamic communication. Rear projection appears as one of the leading technology in this area, thanks to its versatility and ease of use.

Rear projection films can turn any window or shop-window in a dynamic screen. The projection film is directly stuck on the glass, projector is installed inside the store and viewer can watch the pictures or video from outside.

Rear Projection Signage

Create your own advertising signage by pasting the self-adhesive rear projection film onto the transparent acrylic panel, and installing a projector on the rear side to get a wonderful lightweight and unbreakable signage with minimal maintenance and an economical cost.

This signage can be used in commercial centers, reception areas, commercial spaces, supermarkets, schools, hospitals and others public areas.

Multi-Screen remote central management system:

By attaching a mini PC to the projector and using the Internet, we can provide you with a central remote management system to manage the display content of several signages remotely.

MAKE YOUR OWN SCREEN

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Making your own screen is simple and easy in no time.

- Define your screen size and get your transparent acrylic panel cut to the desired size.
- Select the film that will meet your application.
- Apply the film by pasting it on the acrylic panel.
- Use wire ceiling hanging kits if you are mounting the screen from the ceiling.
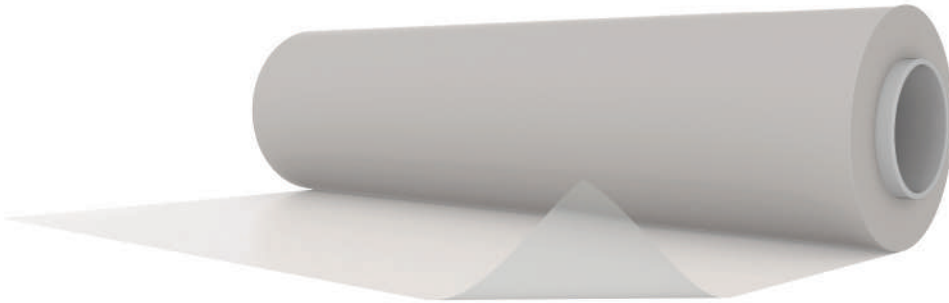- Place the projector behind the film or on front of the film (Depends on the film's type) and you then have a wonderful screen

APPLICATIONS

- ❯ Advertising signage
- ❯ Home cinema/theatre
- ❯ Conference rooms
- ❯ Touchscreens

ADVANTAGES

- ❯ Cost effective
- ❯ Lightweight
- ❯ No fragile screen
- ❯ Minimum maintenance
- ❯ Easy to re-locate
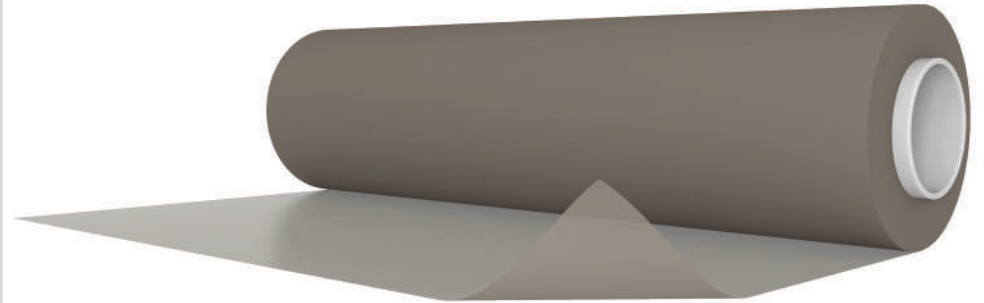
UPGRADE FROM BUDGET TO UGO! PREMIUM SERIES

For high-end & corporate customers looking for a premium quality of rear projection films and able to spend little extra money, **UGO!** Rear projection films offer broad range of films with solutions for different environment. The made in Europe UGO! Films will amaze you with their high specifications that produce great images for immersive experiences.

FROST FILM

High quality matt **light grey** projection film. **FROST** for **rear projection** displays projects content very well at **medium intensity of ambient light**. Contrast projection film has all the features of a high-quality rear projection film.
If you need accurate, high quality display of your product in large format, the **FROST** film is the ideal solution when combined with a projector with higher light output, maximum effect can be achieved.
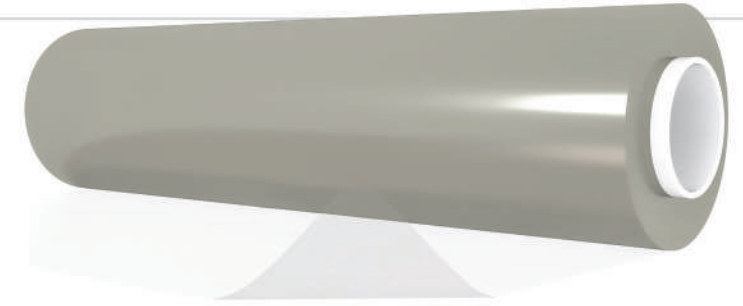
DUST FILM

The **DUST** projection film for **rear projection** is a high-contrast film used primarily **for projections in daylight and in high parasitic light**. This unique film offers exceptional brightness and high-quality display of black and white on the projected image.
High contrast, true color and use with up to 4K projection.

MILKY FILM

This projection film for **rear projection** has gained its name, thanks to the MILKY color it has when it is not illuminated by the projector's light cone. It is intended primarily for design solutions in office buildings, where a great emphasis is put on a comprehensive color design.

CLEAR FILM

The transparent **holographic rear projection** film **CLEAR** is an eye-catching holoprojection with a surprisingly excellent image result. The sheer **CLEAR** film offers high contrast and a wide viewing angle, it remains transparent when not illuminated, allowing for continued vision through the projection area after application (**92% diffuse transmission**).

MADE IN EU

UGO! Self-Adhesive Rear Projection Film Specifications & Applications

Film Type	Gain	Viewing Angle	Projector	Thickness	Diffuse Transmission	Applications	
			Projection Type	Film Roll Size	Ambient Light		
Frost Film Light Grey	4,1	140°	Standard	100microns	81%	• Store Windows (In-malls) • Indoor glass Partitions • POS Displays & Promotions	• Information Displays • Exhibitions & Live Events • Presentation Screens
			Rear	30m x 1,540m	For medium brightness		
Dust Film Brown	3,9	160°	Standard	100microns	60%	• Store Window Displays • Glass Walls & Partitions • Advertising Screens	• Information Displays • Exhibitions & Conferences • Shopping Centre & Malls
			Rear	30m x 1,540m	For very high brightness		
Milky Film Milky	4	140°	Standard	100microns	88%	• POS • Interior & designs • Business presentations	• Office buildings • Receptions & Meeting Rooms • Information Displays
			Rear	30m x 1,540m	For standard brightness		
Clear Film Transparent	7,9	120°	Standard	100microns	92%	• Hologram, theatres concert • Glass Walls & Partitions • Store Window Displays • Interior & design	• Museums & Visitor Attractions • Exhibitions & Live Events
			Rear	30m x 1,540m	For very low brightness		

(Specifications are subject to changes without prior notice)

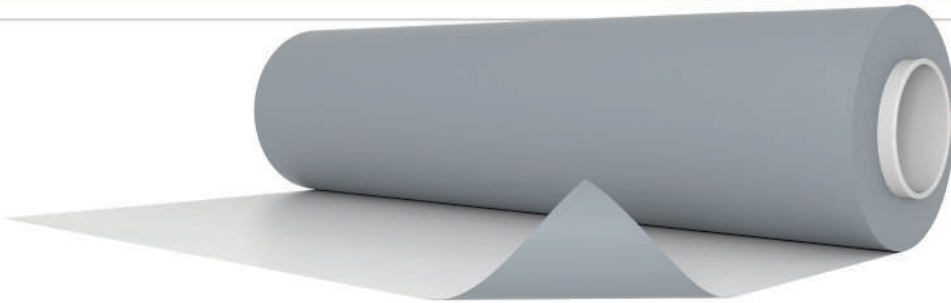# Turn your store window into a hologram display

If you are looking to impress audience **by creating a holographic video display on your store window, UGO CLEAR transparent rear projection film** is the most economical solution to create an amazing hologram screen right on your store's glass window.

The 3D holographic Projection Screens are a powerful tool to drive visitors to your store. The system works with a see-through film (**92% diffuse transmission**) pasted on the store window glass, that has the capability of transforming the black into transparent, the video image comes from a projector installed at the back of the screen. MAGICVIU **3D production artists** can help you create the WOW factor and **develop out of the box 3D holographic contents** making you stand out of the crowd.
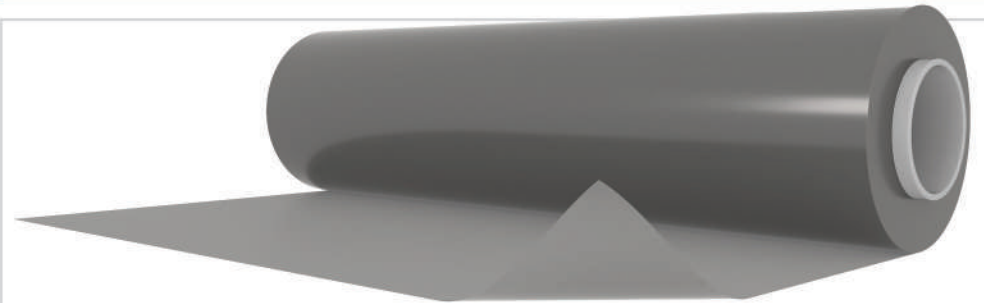
UGO! Front, ST, UST Projection Films

Make sure no one mislead you. The standard rear projection films may not work or may not perform well if used for front projection or with short-throw & ultra-short throw projectors. Front projection requires films with special properties capable of absorbing or rejecting ambient light.

Short-throw or ultra-short throw projectors require special projection surfaces that have the necessary features to produce a high-quality image as in standard projector. **UGO** films have the right film for every use and application.

DARK GREY MATT
UST FRONT PROJECTION

GREY FILM
UST REAR PROJECTION

DARK GREY MATT projection film is a high contrast cinema **front** projection film made with multi reflective material layers and diffusers. It boasts 2x higher brightness compared to a standard matt white projection screen while maintaining an incredible wide viewing angle of 180°. DARK GREY MATT film is the right one for true reproduction of the entire color spectrum – including black and white. **This film supports short throw & ultra-short throw projectors** enabling user to create a large screen with minimal space.
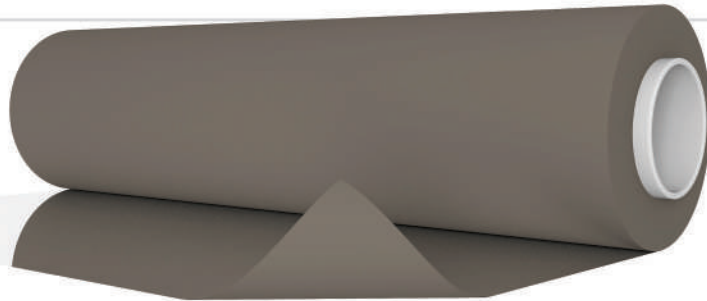
The **ULTRASHORT GREY** film sets the trend of the current use of projectors with ultra-short throw rear projection. High-quality contrast image in all positions and the possibility of use on large projection screens with 4K quality display.
The purchasing cost of a set containing a projection screen of over 100" and a FHD or 4K projector is considerably lower compared to large-format displays or TVs, and the projection can be completely frameless
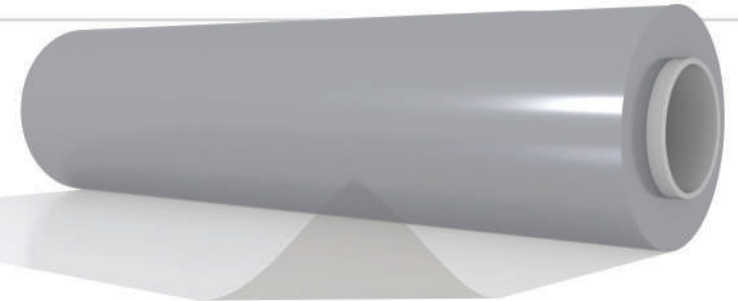
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UGO!

DUAL MIRROR FILM
2 SIDES VIEWING

The **DUAL MIRROR** projection solution with a mirror effect, which is based on the installation of a special projection film on a clear base (glass or plexiglass) and its installation within the space of your interior. The result is a two-sided projection screen (**viewable from both sides**) with great display parameters.

In addition, when the projector is turned off, **the screen acts as a mirror**. Using a high-quality projector, you can for example create a unique, large-format projection screen for customer presentations or a unique shape projection.

BRIGHT FILM
UST FRONT PROJECTION

If you are looking for a film that is almost transparent and the image screened on it incredibly contrasting? In that case, **UGO** new **BRIGHT transparent film**, which has already been tested by a number of prestigious clients, is your right choice.

Front or Ultrashort Front
Novelty in our offer is unique for its ability to realistically display projected content even in low light conditions. However, it can also be used for **ultra-short** projection, where no image blur occurs at any point during the projection.

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UGO! Front, ST & UST Self-Adhesive Film Specifications & Applications

MADE IN EU

Film Type	Gain	Viewing Angle	Projector	Thickness	Diffuse Transmission	Applications	
			Projection Type	Film Roll Size	Ambient Light		
UST Grey Film (Dark Grey)	4,2	180°	Standard/ST/UST	200microns	51%	• Home Cinema • Seamless Video Wall • Advertising Screens	• Business Presentation • Exhibitions & Live Events • Conference Rooms
			Rear	20m x 1,5m	For high brightness		
Dark Grey Matt	7	180°	Standard/ST/UST	150microns	15%	• Home Cinema • Conference Rooms • Music Venues & Events • Exhibitions & Trade Shows	• Interior & design • Information & Advertising • Hotels, offices, Pops & Clubs
			Front	30m x 1,540m	For very high brightness		
Dual Mirror Film Mirror Bronze (2 sides viewing)	6,8	160°	Standard/ST	150microns	13%	• POS & Advertising • Showrooms • Exhibitions & Live Events	• Museums & Visitor Attractions
			Rear/Front	30m x 1,540m	For high brightness		
Clear Film (Transparent)	7,9	120°	Standard/ST	100microns	92%	• Hologram, theatres concert • Glass Walls & Partitions • Exhibitions & Live Events	• Museums & Visitor Attractions • Shops window
			Rear	30m x 1,540m	For very low brightness		
Bright Film (Transparent)	7,9	150°	Standard/ST/UST	150microns	88% front 92% rear	• Hologram, theatres concert • Glass Walls & Partitions • Exhibitions & Live Events	• Museums & Visitor Attractions
			Front	10m x 1,26m	For very low brightness		

(Specifications are subject to changes without prior notice)

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DUAL MIRROR FILM
FOR BRANDING

Home Theatre Use

UGO!

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60-100" SCREEN

Transparent Substrate (glass, plexi, interior glass panel)

Ultra-Short Rear Projection Film (self adhesive foil installed from inside)

Ultra-Short (UST) Throw Projector

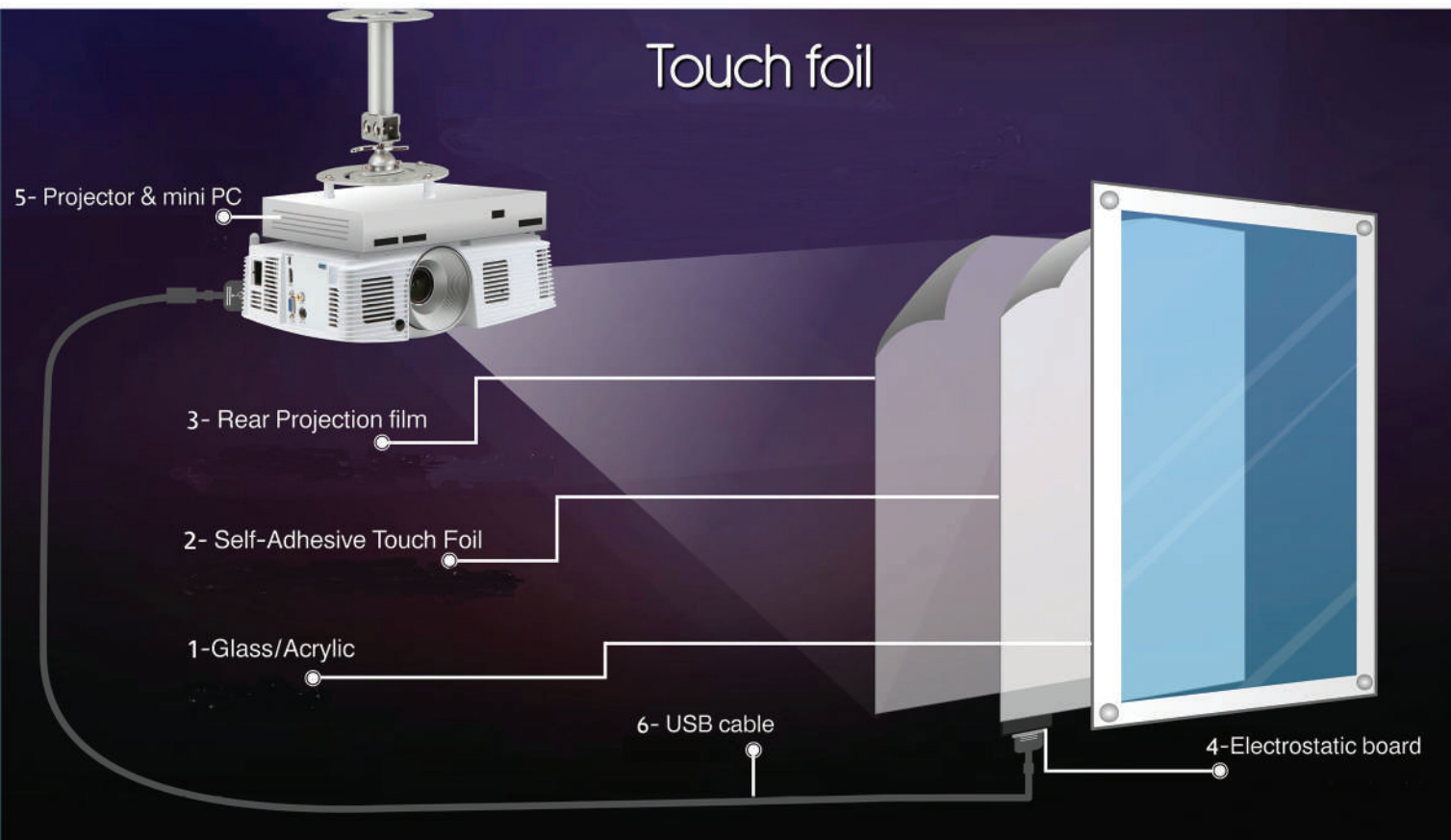## Ultra-Short Rear Projection Film

ONLY 50-65cm

UGO!

**FRONT
ULTRA-SHORT
PROJECTION FILM
HOME CINEMA**

UGO!

**Create 120"
seamless (0,00mm
bezel) video** wall
at ¼ the price of
conventional LCD
video wall

MAGICVIU

Touch foil

5- Projector & mini PC

3- Rear Projection film

2- Self-Adhesive Touch Foil

1-Glass/Acrylic

6- USB cable

4-Electrostatic board

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Film Screen Into Multi-Touch Screen

Add Touch Foil:

Now with a **touch foil** you can transform any standard rear projection film glass screen into an interactive touchscreen. Interactive touch foils are made up of a clear polymer material with a micro wire sensor grid.

Touch foils let you use your finger as a mouse for pinch, drag, swipe, zoom, and other basic touch gesture commands without any hassle.

Add IR Frame:

Alternatively **IR frame** can be used to turn any rear projection screen into multi-touchscreen.

Infrared (IR) touch screens are based on light-beam interruption technology. Instead of an overlay on the surface, a frame surrounds the display. The frame has light sources, or light emitting diodes (LEDs) on one side and light detectors on the opposite side, creating an optical grid across the screen.

Rear Projection Virtual Presenter

What is virtual presenter?

Virtual presenter or sometimes called Promoter is a construction made of a special glass/acrylic with maximum thickness of 1 cm. An image of a man/woman is projected on the construction. The intensive artificial lamination makes the image naturally bright and clear. The usage of accessory equipment allows addition of voice to the image. The hugeness of the scope of Virtual Promoter multimedia system usage is amazing: it can be used in frames of exhibitions, crowded events, workshops and presentations, in specialized stores and service centers, in business and trading centers. Virtual Presenter can easily and correctly present the product, consult clients and visitors. The advantages of Virtual Presenter are: It attracts visitors, It takes up little space, It operates 24/7, It eliminates the possibility of providing incorrect information due to pre-set content, It increases brand awareness, It positions your company as walking in line with the technological developments.

Making the virtual presenter

The process of the virtual presenter starts with creating a script, find the right presenter (Model), film a video/shoot photos in a studio, create a cutting profile from the presenter's outline in acrylic, paste the right MAGICVIU rear projection film and then mask the video with the cutting & use a rear projector to display the video image on the mannequin outliner. MAGICVIU can supply a full production virtual presenter or simply supply the acrylic outline based on materials provided by the client and guide you on how to complete your project.

Real or animated character

MAGICVIU can supply the virtual presenter for a real person or animated character video image on the acrylic outliner.

Select Your Virtual Presenter Type

MV-VP01 (Standard) with looped message

The Virtual Presenter MV-VP01 (Standard) is simple and cost effective solution, it includes 2 parts, the acrylic outliner and the rear projector housing stand (Stand by customer).

Innovative and engaging, and attracts attention as people approach. Absolutely customized, the hologram can be any presenter, a celebrity and a mascot, even a product! And for Legacy and Vanity clients, the MV-VP01 is a personal representation of them and their story.

Messages will **be looped** (i.e. automatic repeat), your MV-VP01 can deliver any number of different messages, languages, presentations, depending on your objectives. In this image, the projection technology is housed in the tower behind the MV-VP01. This specialized projector can also be ceiling or wall-mounted to reduce the floor footprint where needed, like in retail environments. The equipment consists of two separate components: an acrylic laser-cut silhouette plus the unique multimedia and projection combination within the enclosure. Easy to transport, it is suitable for any location, with minimal set-up. If the installation is permanent, the projector system enclosure can be mounted off the floor, reducing the space requirement.

MV–VP02
with motion detection

The Virtual Presenter MV-VP02 is a motion detecting unit. The MV-VP02 is constructed as a one-piece unit (Acrylic outliner & rear projector housing stand), the video plays as soon as the motion sensor detects a close by motion. Unit is designed for areas of higher traffic. This stand-alone unit offers the same customization of content, interactivity where desired, image clarity and, most important, audience engagement.

The rear projector housing stand contains a projector, mini PC, motion detection software and hardware.

3D Holographic effect i.e. messages or images can be added to the video synchronized with the voice message for more attraction .

MAGICVIU can supply a complete solution or only the hardware and software, however we always recommend fabricating the projector housing stand at client's end to save shipping cost.

MV-VP03
Interactive Virtual Presenter

MV-VP03 type consists of 1 unit including the acrylic Outliner, the projector, mini PC, with enclosed stand hardware, touchscreen or tablet with software and application enables user to interact with the virtual presenter.

The interactive virtual presenter is the state-0f-art technology, interacts with audience and programed to provide specific information or answer questions on demand.

The front touchscreen or tablet will include an App and specific questions or required information, up on clicking on the question or required info, the MV-VPO3 will reacts with information or answer to that specific question.
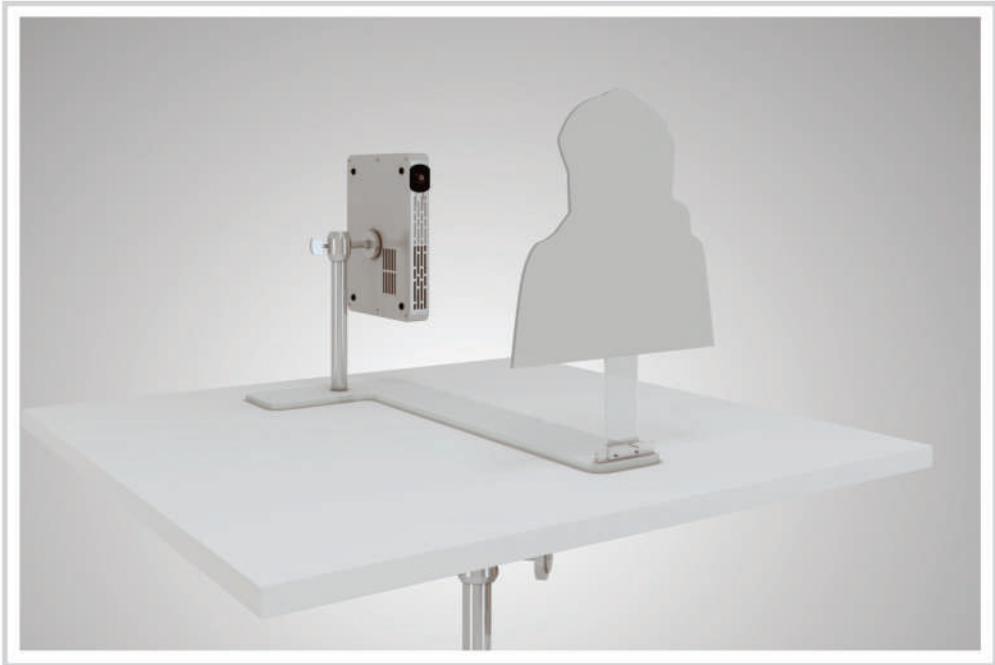
MAGICVIU can supply a complete solution including software, App, and programming.

Mini Virtual Promoter for Merchandise Shelves

Mini virtual promoter from **MAGICVIU** using the holographic rear projection technology is an outstanding eye level marketing tool in supermarkets or stores. This tool can be shaped to your product and project your video/image or flashing marketing message turning the crowds head.

This amazing advertisement tool from **MAGICVIU** is a one week return on investment Advertising tool.

Available in 2 shapes:
A. Standard shape for any beverage can 330ml.
B. Custom designed shape to match customer's product.

The system is supplied with 700 lumens projector with LED lighting projecting high resolution image, mostly used as an eye's level advertising tool on supermarket's shelf.

Our services including the video production of the client's product.

Gesture Holographic e-book

E-book system from **MAGICVIU** is a gesture holographic new way of **rear projection** to show off your book in bookstores, at conventions, and in shopping malls, as well as your products catalogue or video. The system uses a projector and computer which are placed on the floor. The projector reads the book or catalogue from the computer, and then displays it on a clear acrylic screen. This makes it an attractive and eye catching display that can bring in new audiences for your book or catalogue and increases both exposure and sales.

Specifications

Book Stand
1.2m high with book model (50cm×40cm)

Projector

Product Type: mini projector
Projection technology: DLP
Display chip: 0.45 inches
Brightness uniformity value :> 90%
Contrast Ratio: 2000:1
Standard Resolution: WXGA (1280 x 800)
Lamp life: more than 20,000 hours
Projection parameters

Interface Parameters

Input terminal: AV: 1 x 3.5mm audio and video triple interface, support PAL / NTSC system
VGA: 1 × 15-pin D-type interface
HDMI: 1 x Type A type interface, version V1.4, support 480P, 720P, 1080P
TF card: 1 x Micro SD file system format: FAT32, FAT, NTFS, supports a maximum capacity:32G
DC jack: 1 × outer diameter of 5.5mm internal diameter 2.5mm; 19V/2.1A or 15V/2.6A
Output terminals: 1 x 3.5mm headphone jack
Control terminals: USB: 1 x USB type A ports, file system format: FAT32, FAT, NTFS

PC

CPU: Intel(R) Core(TM) i3-2130
Memory: 2GB
Hard disk: 500GB
Graphic card: Intel HD integrated graphic card
Video capture USB card:USB MiINE Vcap2860
Video capture camera (image available within 300 inches)
Power: 100-240V 5-3A 250W

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