XY screens

# PROJECTION  SCREEN

Create Perfect Audio & Visual Experience, Present the Beauty of Our World.

Guangzhou Xiong-Yun Audio-Visual Equipment Co., Ltd.

Large Movie Screen

Home Theater

Living Room Large-screen Theater

Training and Education

Large Projects

# About us

Guangzhou Xiong-Yun Audio-Visual Equipment Co., Ltd. (hereinafter referred to as "XY") represents one of the mid-to-high end projection screen manufacturers in the world, selling projection screens to Europe, the United States and other countries, with its unremitted efforts in R&D and manufacturing in projection screens and commitment to high product quality.

XY has set up a standard production base of 15,000 square meters located in Nansha District, Guangzhou, China, with an annual production capacity of 200,000 sets of products. Based on this, we supply OEM/ODM service to global customers. Our products can be extensively used in business and daily life, such as home theater, living room large-screen theater, training and education, cinema and presentation of large projects. Our product lines include: fixed frame projection screen, motorized projection screen, portable outdoor projection screen, engineering screen, projector bracket, HDMI cable etc.

As an innovative enterprise, XY has made constant progress in research on various areas ranging from screen material and structure, optics to acoustics. With the introduction of world's leading coating technology, its projection screen gives a better presentation of the color of black, therefore supplying images with rich gradation. Since its inception, XY has always remained customer-oriented by putting customer satisfaction first and making high-quality projection screens that can deliver better user experience. In production, from the selection of product materials to the final packing, XY Screens has always been committed to quality by equipping it with advanced numerical control processing equipment and large-scale high-tech manufacturing equipment. In addition, we strictly control every process of production, in a move to optimize our products and ensure that every customer can enjoy the best audio-visual experience.

With its superior design and professional technology, XY Screens continues to provide customers with a full range of service support in product design, technology, training, marketing and retail concepts. So far, we have obtained more than 50 technical patents and provided services for over 300 customers, from whom we have gained increasing reputation.

Brand Culture: Create Perfect Audio & Visual Experience, Present the Beauty of Our World!

Management Philosophy: Origin of Symbiotic and Harmonious Communion.
To build a passionate, meticulous, powerful, positive, and harmonious team, and make progress together.

Quality Control Concept: Satisfy the Discerning Eye, Pursuit Striking Experience!
To guarantee stable quality, perfect details, sturdy package and excellent effect.

Product R&D: Establish Powerful R&D Team, Make Great Investment, To Create Products with Patents.
We have always been innovative and progressing. We have been imitated, never to be surpassed!

Create Perfect Audio & Visual Experience, Present the Beauty of Our World.

# Product Culture

XY Screens has been playing a leading role in audio-visual field.

The projection screen reflects light in human eye, so the projected image can be seen. Since the projection screen is a reactive illuminated surface, different screen fabrics and different viewing angles lead to different reflected intensity of light, spectrum and transmission mode. Therefore, the image that reaches our eyes becomes different. For home theater, people don't just ask for clear image, they also have high demands for brightness, contrast, color, detail, noise and etc. A good projector is important, and a suitable projection screen is crucial. If the projector and screen matches with each other appropriately, the image quality can be improved greatly. Because of this, although the projector has been invented for decades, we continually develop new screen material and new technique to create more perfect effect.

With the introduction of world's leading coating technology, its projection screen gives a better presentation of the color of black, therefore supplying images with rich gradation. As the contrast is enhanced, the images become more delicate and the color more bright and vivid, which reduces eye fatigue.
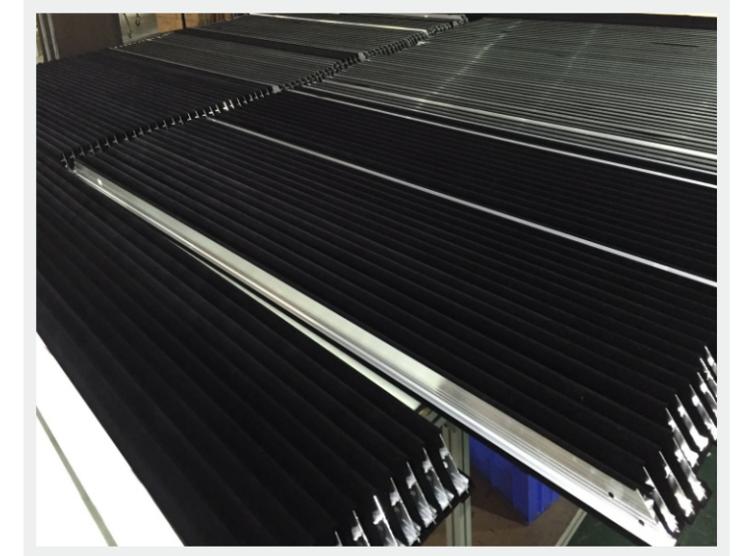
So far, we have obtained more than 50 technical patents and provided professional products and services for our customers.
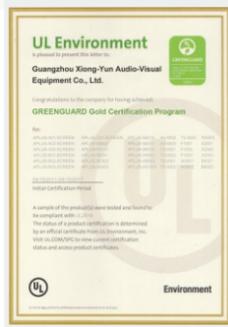
# Quality Guarantee

Quality Guarantee of XY Screens Fabric

Since its inception, XY has always remained customer-oriented by putting customer satisfaction first and making high-quality projection screens that can deliver better user experience. We strictly control every process of production, in a move to optimize our products and ensure that every customer can enjoy the best audio-visual experience.

# **P**atents

XY Screens has a professional R&D team with over 10 years of experience. By 2017, we have obtained more than 50 technical patents and provided services for over 300 customers, from whom we have gained increasing reputation.

## Specification Analysis I

**Gain:**
The gain number represents a ratio of light that is reflected back from a surface from a light source. This ratio is in relation to the light reflecting off of a block of either barium sulfate or magnesium carbonate, serving as the industry's standard for a gain of 1.0. Screens with a higher brightness than this standard are rated with a gain higher than 1.0, while screens with lower brightness are rated from 0.0 to 1.0.

**Viewing Angle:**
The angle at which the gain reading drops to 50% of the peak value is known as the Half Gain Viewing Angle. A person viewing the screen from this angle will see an image half as bright as the person seated at the center position. Low gain screens have wider Half Gain Viewing Angles than do high gain screens. That is because the low gain screen diffuses light more evenly over a wider angle of view. A high gain screen is constructed to reflect more of the projector's light energy back toward the centerline of the projection path, and less light energy to the oblique angles of view. Thus brightness falls off more rapidly as you move away from the zero degree viewing axis, and the Half Gain Viewing Angle is relatively narrow.

**Choose suitable projection screen:**
You may consider above parameters and requirements before purchasing a projection screen.

**Suitable Type:**
There are various projection screens including wall mounted projector screen, fast fold screen, floor rising screen and so on. At present, wall mounted screens are popular in home theater. Wall mounted screens can be divided into fixed frame screen and motorized projector screen.

**Suitable Ratio:**
People usually select the ratio according to the resolution of the projector. 4:3 is often used in business and education. 16:9 and 2.35:1 are usually used in home theater. 1.85:1 is usually used in movies.

**Suitable Size:**
The screen height must be suitable, to ensure that the audience at each row can see the image. In home theater, the distance between the screen and the first row of seats is 2 to 4 times of the screen height. The screen bottom should be 50-90cm off the ground.

Unit: inch
16:9

200"
180"
150"
125"
100"

3M   4M   5M   6M   7M

Unit: meter
(Choose suitable screen according to the viewing distance.)

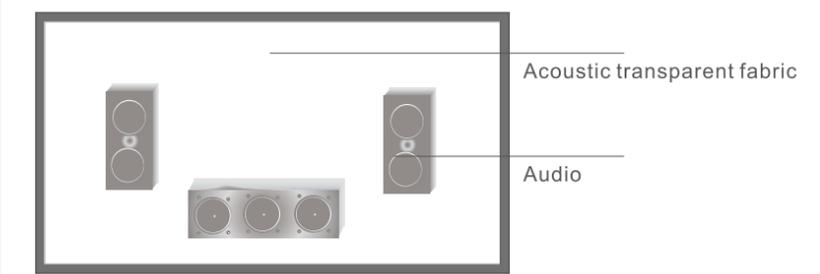## Analysis of Acoustic Transparent Fabric

Acoustically transparent materials provide an enhanced theatrical experience. There is nothing that compares to having your front left, front right, and center channel speakers directly behind the screen. All sound effects and dialog come from directly behind the screen for one amazing knock-your-socks off experience.iewing axis, and the Half Gain Viewing Angle is relatively narrow.

Features of XY Screens 4K Woven Acoustic Transparent Screen Fabric Sound Max4K
No Moire Interference: Moire occurs when the natural patterns on your projector screen align with the pixel patterns of what is being projected, merging to form lines that run across your screen. This can occur when the projection screen has been weaved too loose, in the case of a woven screen, or has an uneven patterning. The pattern of the screen overlaps with the field of the pixels, creating the moire effect. Moire is becoming a larger issue now with HD projection monitors, as the higher resolution makes the visual more susceptible to imperfections in a coarse screen.
XY Screens Sound Max4K is made with a special twill weaving method, which can effectively avoid moire effect. People can enjoy projection images completely free of the moire interference patterns that plague traditional vinyl perforated screens.

Excellent Acoustic Transparency: As the screen is in front of the speaker, when the sound waves pass through the screen, there will be sound loss. Usually users will adjust the sound with the sound amplifier, especially the high frequency part. Sound Max4K material has a special fabric weave for acoustic transparency. The 1.1 Gain matte white mesh material has outstanding sound penetration.

Minimal Brightness and Light Loss: In order for sound to come through the screen there must be holes to let it through, and if there are holes then that must be light from the projector passing through the screen and that means pictures quality may be degraded. Sound Max4K adopts exquisite weaving method. Its holes are tiny, so the light passing through is 58% less than the traditional screens.

Acoustic transparent fabric

Audio

Acoustic Transparent Screen Solution

（Sound Reduction Comparison）

Sound Reduction(db)

5
0
−5
−10
−20
−30

200   500   1,000   2,500   4,000   8,000   10,000  16,000  20,000

Frequency(Hz)
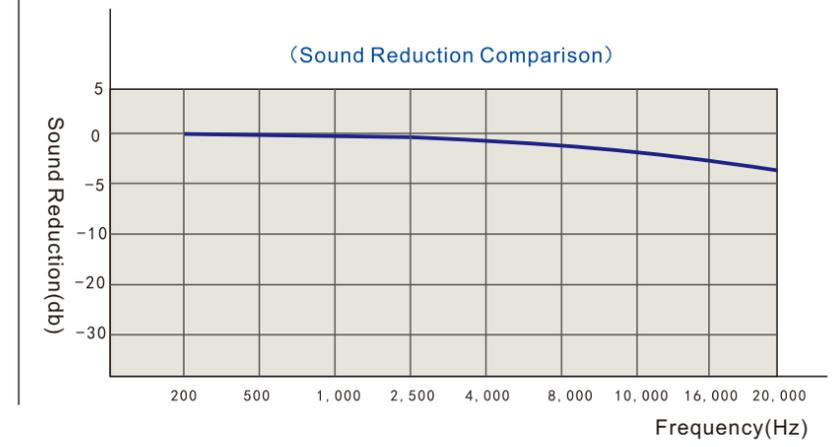
## High Gain Perforating Acoustically Transparent Fabric
## Sound Max5 HG
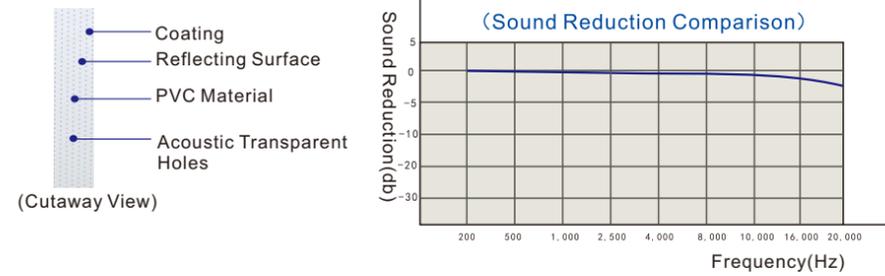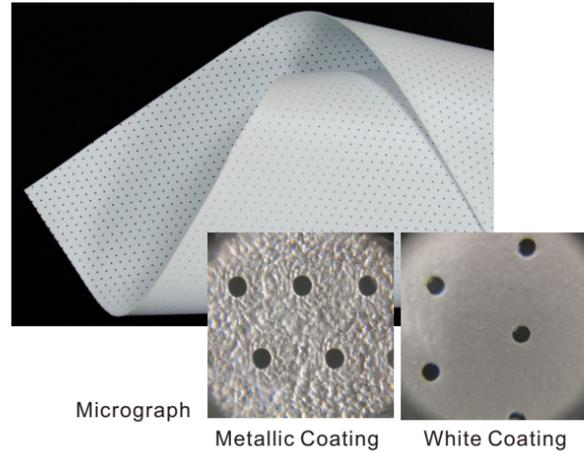


Micrograph

Metallic Coating    White Coating

Coating
Reflecting Surface
PVC Material
Acoustic Transparent Holes

(Cutaway View)

（Sound Reduction Comparison）



Sound Reduction(db)
Frequency(Hz)

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Tab Tension Motorized Projection Screen.
Especially suitable for advanced and top theaters.

Specifications:
Sound Max5 HG is for front projection, with 0.4 mm hole, which is made of a environmentally friendly PVC. Sound Max5 can meet universal requirement for projection screen because of flexibility and stability. The users can set their speakers behind the screen. What's more, its unique coating technology provides high-quality picture with 1.8 Gain, so it can vividly present a high brightness and high definition image. It's a ideal choice for the home theater and large cinema.

Gain: 1.8-2.4    Viewing Angle: 140 degreeso the light passing through is 58% less than the traditional screens.

## 4K Perforating Acoustically Transparent Fabric
## Sound Max5



Micrograph

Reflecting Surface
PVC Material
Acoustic Transparent Holes

(Cutaway View)

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Motorized Projection Screen.
Especially suitable for advanced and top theaters.

Specifications:
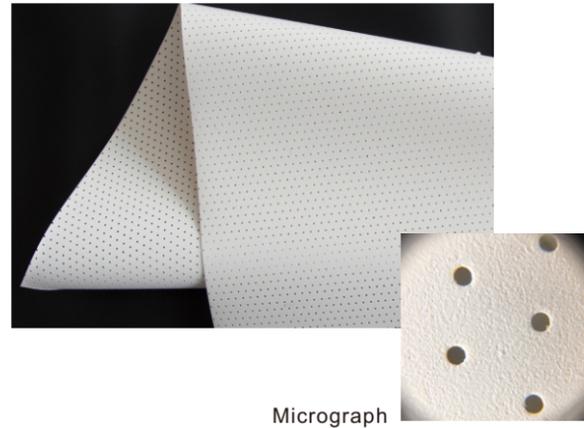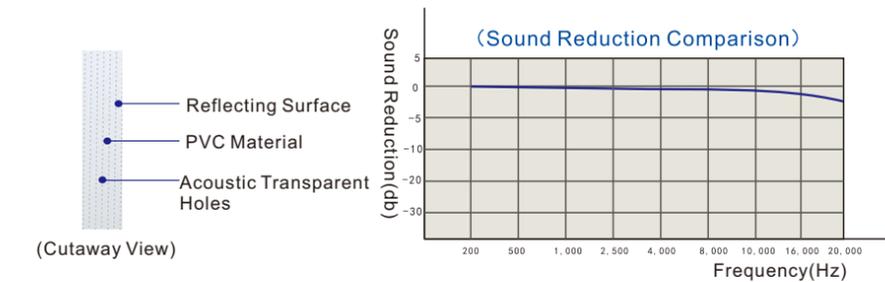Sound Max5 is for front projection, with 0.4 mm hole, which is made of a environmentally friendly PVC. Sound Max5 can meet universal requirement for projection screen because of flexibility and stability. The users can set their speakers behind the screen. It's a ideal choice for the home theater and large cinema, while never produces Moire effect. What's more, its unique coating technology provides high-quality picture so it can vividly present the contrast of image sources.

Gain: 0.95   Viewing Angle: 160 degree

（Sound Reduction Comparison）



Sound Reduction(db)
Frequency(Hz)

## 4K Woven Acoustically Transparent Fabric Sound Max 4K
## Sound Max4K



Micrograph

Reflecting Surface
Weaving Layer

(Cutaway View)

（Sound Reduction Comparison）



Sound Reduction(db)
Frequency(Hz)

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Motorized Projection Screen.
Especially suitable for advanced and top theaters.

Specifications:
Made of super precision twill woven fabric, Sound Max4K has an important feature that it has many super small acoustic transparent holes, which can get rid of the Moire effect. The image effect can be improved and becomes more natural.

Gain: 1.1   Viewing Angle: 160 degree   Light Loss: <1.5%

## HD Woven Acoustically Transparent Fabric Sound Max2
## Sound Max2



Micrograph

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Motorized Projection Screen.
Especially suitable for middle-to-high end theaters.

Specifications:
Sound Max2 can effcetively avoid Moire effect. Also, the small holes can reduce the influence on image quality to minimum, so the image becomes more delicate. It has outstanding color rendition. The white screen fabric has the characteristic of catoptrics. With fine knitting, it can project 1080P images.

Gain: 0.97   Viewing Angle: 160 degree   Light Loss: <3%

Reflecting Surface
Weaving Layer

(Cutaway View)

（Sound Reduction Comparison）



Sound Reduction(db)
Frequency(Hz)
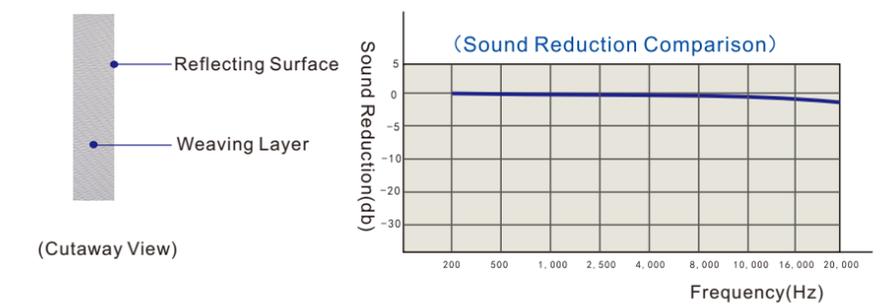
## High Gain Max 4k Flexible PVC Fabric WF1 Pro Max4K HG
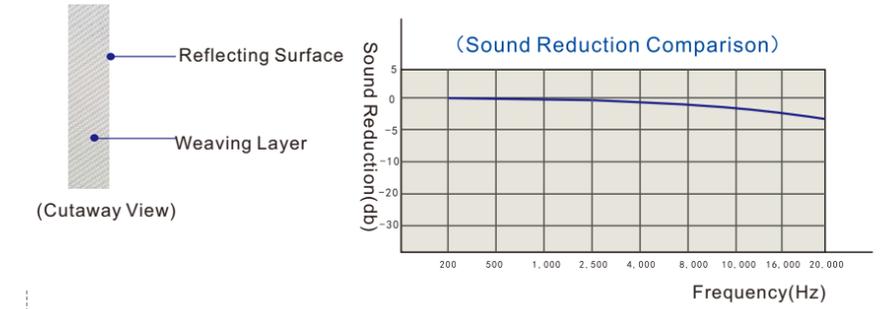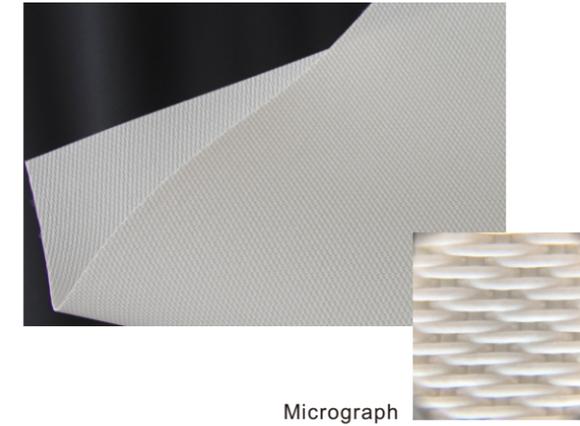## WF1 Pro Max4K HG



Micrograph

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Motorized Projection Screen.
Especially suitable for advanced and top theaters.

Specifications:
Using unique coating technology, WF1 PRO Max4K HG is 1.8 Gain and able to provide brighter and powerful images. It can reproduce the contrast of the image source. As a top-level high gain white screen, WF1 Pro Max4K HG has perfectly solved some problems occurred on traditional screens, such as uneven coating, unenough black level, small viewing angle and so on.

Gain: 1.8   Viewing Angle: 140 degree   Resolution: 8K

## Max 4K Front Flexible PVC Fabric WF1 Pro Max4K
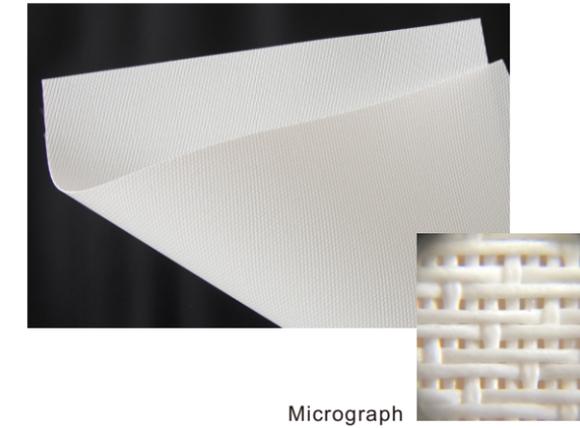## WF1 Pro Max4K



Micrograph

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Motorized Projection Screen.
Especially suitable for advanced and top theaters.

Specifications:
Made of special PVC, its surface has fine lines, so the incident light can be spread in all directions and the visual angle will be enlarged. To show 4K image, WF1 Pro Max4k has special coating with high contrast to ensure the best effect.

Gain: 1.1   Viewing Angle: 160 degree   Resolution: 8K

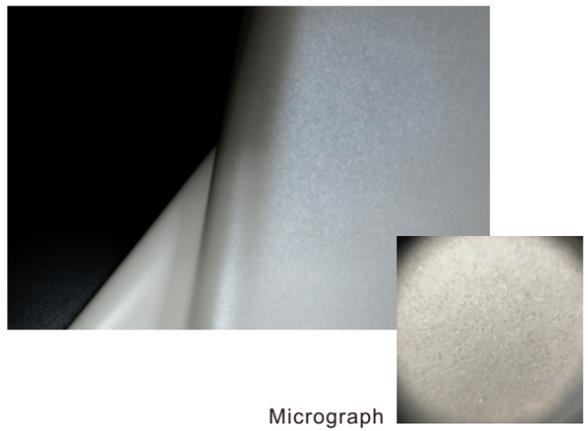## Front 4K Flexible White PVC Fabric WF1 Pro
## WF1 Pro



Micrograph

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Motorized Projection Screen.
Especially suitable for advanced and top theaters.

Specifications:
WF1 Pro is made of special PVC. With embossing on the surface, the incident light can be spread in all directions and the visual angle will be enlarged. The color becomes more natural, to ensure the best effect. The screen is high-elastic and foldable. It is anti-UV, anti-static, cleanable, dampproof, fireproofing, anti-aging and anti-dust.

Gain: 1.1   Viewing Angle: 160 degree   Resolution: 4K

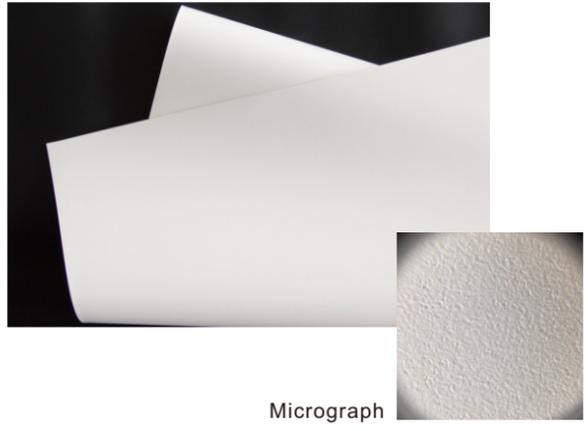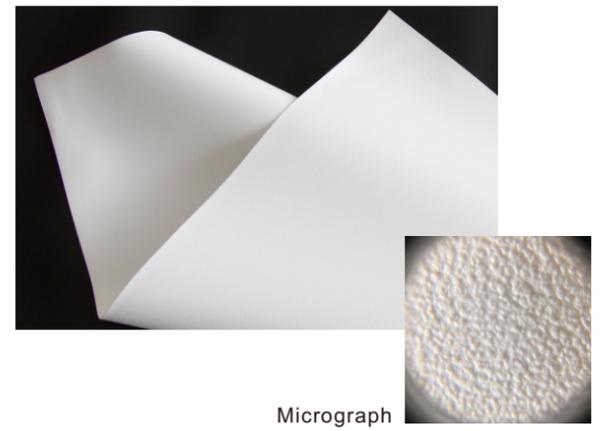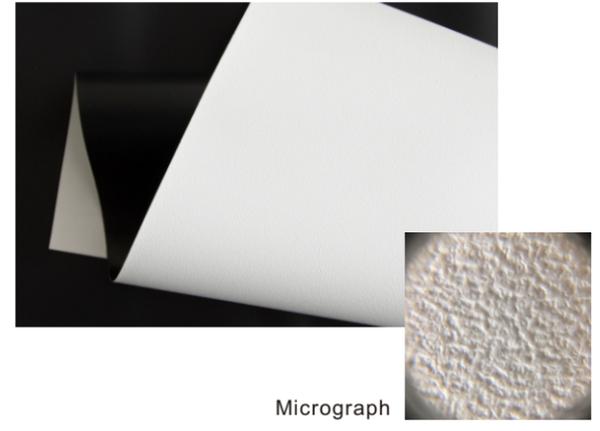## Front HD Flexible PVC Fabric WF1
## WF1



Micrograph

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen, Motorized Projection Screen.
Especially suitable for middle to high end theaters.

Gain: 1.0   Viewing Angle: 160 degree

## HD Front Flexible PVC Fabric YWF1
### Y W F 1
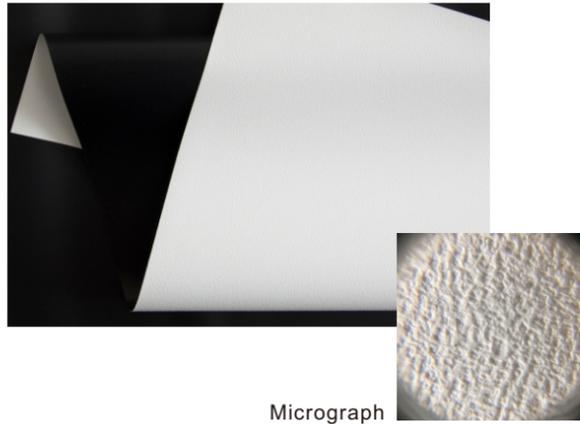


Micrograph

Application:
Ultra Thin Frame Projection Screen, Fixed Frame Projection Screen, Curved Projection Screen.
Especially suitable for mini KTV and mini theaters.

Specifications:
YWF1 is made of PVC. With imaging coating on the surface, the incident light can be spread in all directions and the visual angle will be enlarged. The screen is high-elastic and foldable. It is anti-UV, andti-static, cleanable, dampproof, fireproofing, anti-aging and anti-dust. YWF1 is designed for mini cinemas. It has high contrast and the projected image is clear and natural. The screen is anti-dust and cleanable.

Gain: 1.0   Viewing Angle: 160 degree

## PET 4K Matte White Fabric WG1 Pro
### W G 1  P r o
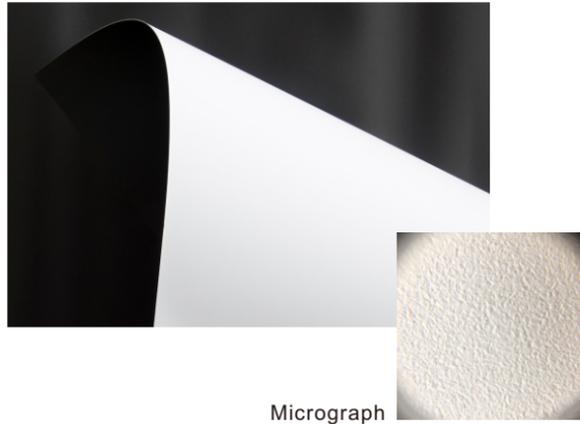


Micrograph

Application:
Tab Tension Projection Screen.
Especially suitable for middle to high end theaters.

Specifications:
WG1 Pro uses basic three-layer structure. The outer layer is white coating; middle layer is glass fibre; inner layer is black layer. Made of glass fibre, the screen must be very smooth. WG1 Pro is a diffusion screen and its surface has fine and smooth lines, providing the best visual angle and excellent color rendition.

Gain: 1.2   Viewing Angle: 160 degree

## HD Matte White Fabric WG1
### W G 1



Micrograph

Application:
Motorized Projection Screen, Tab Tension Projection Screen.
Especially suitable for middle to high end theaters.

Specifications:
WG1 is made of fiberglass. Its surface is coated with special PVC. Its unique coating technology provides you incomparable experience. The projected image becomes more vivid and natural.

Gain: 1.0   Viewing Angle: 160 degree

## High Quality Matte White Fabric CBS1
### C B S 1



Micrograph

Application:
Tab Tension Projection Screen.
Especially suitable for middle to high end theaters.

Specifications:
CBS1 is made of fiberglass. Its surface is coated with special PVC, which makes it much more smooth than normal matt white fabrics. CBS1 is a good choice for business, education and middle end home theaters.

## Silver Hard Screen Fabric FH201
# FH201
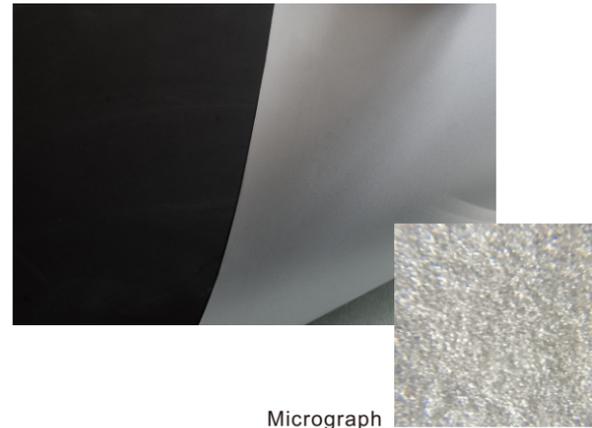


Micrograph

Application:
Fixed Frame Projection Screen, Curved Projection Screen.

Specifications:
Traditional hard screen is made of glass reinforced plastic sheet, which is not flat enough. But XY Screens FH201 is a polyester sheet coated with metal material, much flatter and with longer lifetime. The projector screen has high contrast and superior anti- interference ability of ambient light. Black images become darker and colorful ones become brighter. Even when used in bright room or outdoor without sunlight, it can get rid of foggy phenomenon, to provide clear perfect images. Perfect for film , 3D animation and game show.

Gain: 2.0-3.0   Viewing Angle: 120 degree

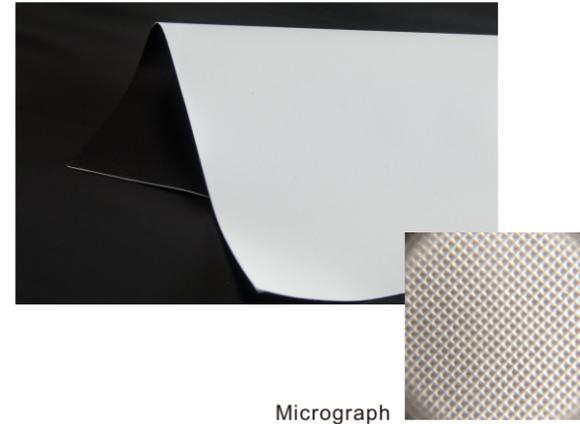## 3D Silver Flexible Fabric MF1
# MF1
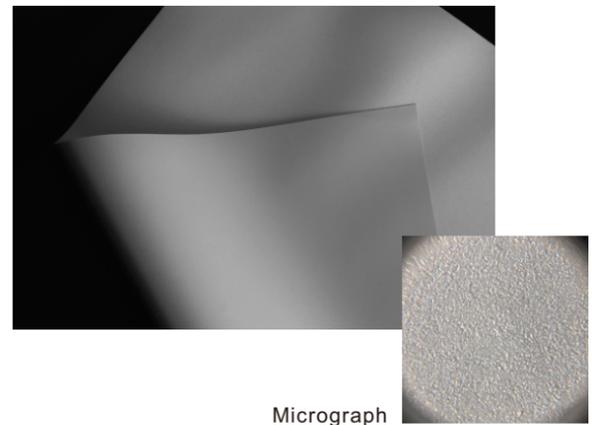


Micrograph

Application:
Fixed Frame Projection Screen, Curved Projection Screen, Tab Tension Motorized Projection Screen.
Especially suitable for 3D cinema, image fusion, home theater.

Specifications:
MF1 is coated with high-reflective metal mixed polyvinyl resin, providing high Gain and clear image. In particular, it is vivid and natural when presenting dynamic video or pictures. It is suitable to show movie, 3D automation and computer game. Also, it is suitable for different types of theaters, classrooms, meeting rooms and command posts.

Gain: 3.0   Viewing Angle: 120 degree

## 3D Silver Perforating Acoustically Transparent Fabric MFS1
# MFS1



Micrograph

Application:
Fixed Frame Projection Screen, Curved Projection Screen, Tab Tension Motorized Projection Screen.
Especially suitable for large theater, classroom, large projects, command post and etc.

Specifications:
MFS1 is coated with high-reflective metal mixed polyvinyl resin, providing high Gain and clear image. In particular, it is vivid and natural when presenting dynamic video or pictures. It is suitable to show movie, 3D automation and computer game.

Gain: 1.8-3.0   Viewing Angle: 100-120 degree

## Holographic Screen Fabric
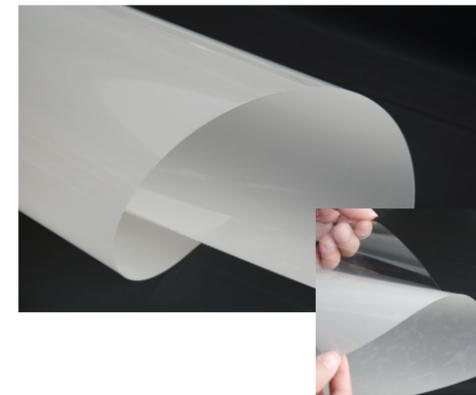


Light Grey Holographic Screen

Application:
Light grey holographic screen is suitable for shopwindow, exhibition hall and etc.
Transparent holographic screen is suitable for shopwindow, exhibition, interactive projection and etc.

Specifications:
Light grey screen has good ability of light absorption, avoiding interference from light. It provides clear and vivid images, suitable for both dark and bright environments.

Light Transmission: No   Viewing Angle: 120 degree

Transparent screen is guaranteed to catch attention with contemporary design, and by creating an image that appears to float in mid-air. It is suitable for relatively dark environments.

Light Transmission: 83-93%   Viewing Angle: 150 degree
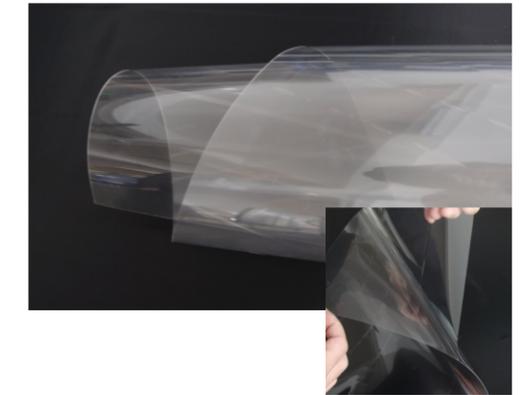


Transparent Holographic Screen

## PET Rear Hard Fabric RH201
## RH201



Micrograph
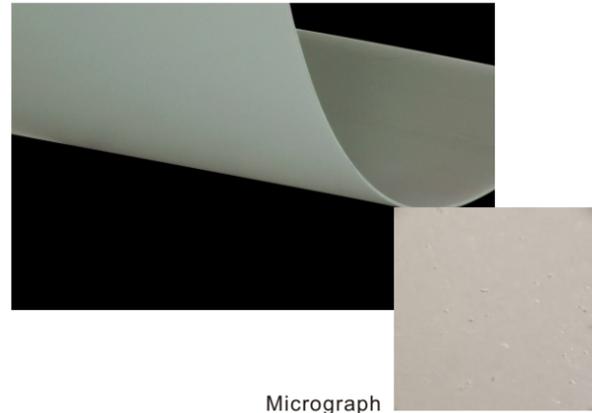
Application:
Fixed Frame Projection Screen, Curved Projection Screen

Specifications:
RH201 is developed for high brightness environments. It is suitable for a wide range of applications, including meeting room, multi-function classroom, presentation, advertisement and other occasions which need rear projection. RH201 provides extremely high contrast and brightness, which makes it the ideal choice. It can provide excellent vertical and viewing angle.

Gain: 0.75   Viewing Angle: 140 degree

## HD Rear Flexible PVC Fabric RGF1
## RGF1



Micrograph
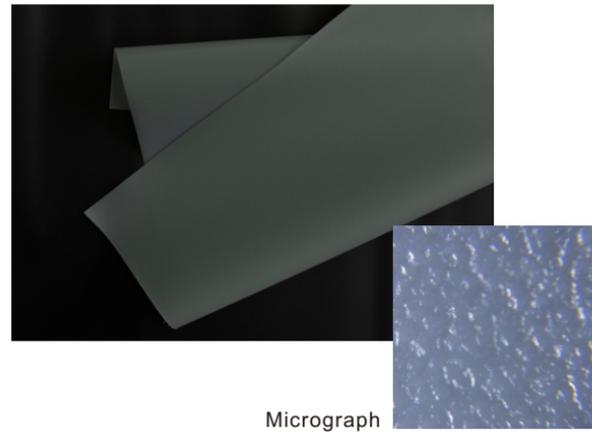
Application:
Tab Tension Motorized Projection Screen, Fixed Frame Screen, Fast Fold Screen.

Specifications:
RGF1 is made of PVC with high transparency. With lines on the surface, the illuminated surface has very low reflectivity. Projection lights can be concentrated and reflected to a imaging surface with visual angle of 80°, thus there will be no spots of light and dark. It is suitable for normal low lumen projectors and those projectors with high resolution, brightness and contrast. The projected image is vivid and the visual angle is large, so it is playing a leading role in rear soft screens.

Gain: 0.8   Viewing Angle: 160 degree

## Double Side Screen Fabric for Both Front and Rear Projection DP1
## DP1



Micrograph
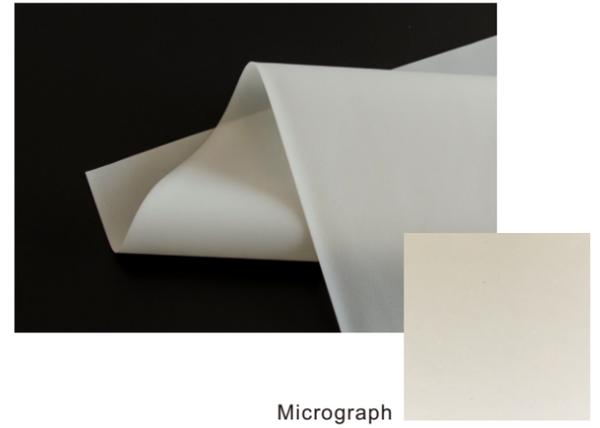
Application:
Motorized Projection Screen, Fixed Frame Projection Screen, Fast Fold Screen.
Especially suitable for shopwindow, hotel, exhibition hall, multimedia room and etc.

Specifications:
This double side projection screen fabric DP1 is newly developed for current market demand, with 360 degree projection technology. Made of PVC material, it has excellent flexibility and smoothness. DP1 is the perfect choice for projects where the display needs to be seen clearly from both sides at the same time. This technology produces a perfectly viewable image on both sides at the same time with 180° angle of visibility.

Gain: 1.0   Viewing Angle: 160 degree   Thickness: 0.33mm

## Double Side Acoustically Transparent Screen Fabric DPS1
## DPS1
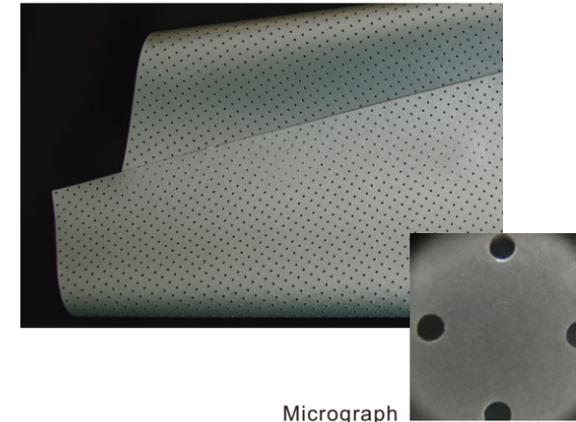


Micrograph
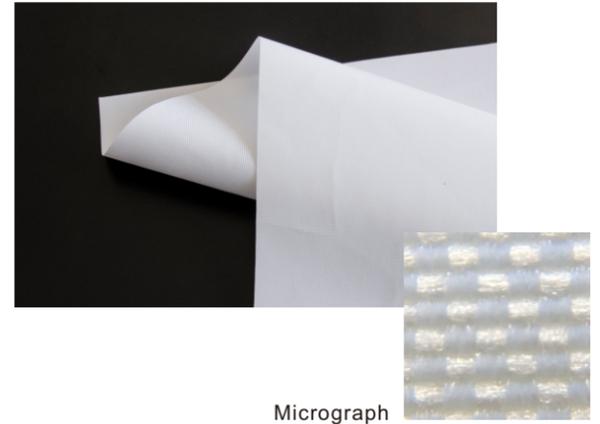
Application:
Fast Fold Screen, Fixed Frame Projection Screen, Tab Tension Motorized Projection Screen.
Especially suitable for large outdoor venues

Specifications:
This double side projection screen fabric DPS1 is newly developed for current market demand, with 360 degree projection technology. It is the perfect choice for projects where the display needs to be seen clearly from both sides at the same time. This technology produces a perfectly viewable image on both sides at the same time with 180° angle of visibility. The users can set their speakers behind the screen.

Gain: 1.0 Viewing Angle: 160 degree   Thickness: 0.24mm

## Specification Analysis II



### Resolution:
The term resolution is often considered equivalent to pixel count in digital imaging. Usually pixel resolution is described with the set of two positive integer numbers, where the first number is the number of pixel columns (width) and the second is the number of pixel rows (height). Higher resolution means more image detail. For example, 1080P is 1920*1080, which is called HD; 2K is 2560*1440, which is called UHD; 4K is 4096*2160; and 8K is 7680*4320.

### Contrast:
Contrast is the difference in luminance or colour that makes an object distinguishable. Higher contrast means more vivid color. Low contrast will make the image dull. So far, the human visual system is more sensitive to contrast than absolute luminance.

### Lumen:
The lumen is the SI derived unit of luminous flux, a measure of the total quantity of visible light emitted by a source. Normal projectors have 1000-4000 lumens. Usually the home projectors have 2500 lumens. Projectors for business and education are about 5000 lumens. Projectors for cinema have more than 10000 lumens.

## Analysis of ALR Screen (ambient light rejecting screen)

### Open a New Era of "Black Screen"
In the past, projection screens only acted as an aide for projection systems. But now projectors and projection screens have become two decisive devices for projection systems. Projector has three main parameters: 1. Contrast (to adjust the picture quality and clarity), 2. Lumen (brightness of light source), 3. Resolution (present image details). To make the best use of the projector, the projection screen must has good quality as the projector. The projectors and projection screens always have impact on each other.

Projection screen effect is the most intuitive reflection of the screen quality. According to market demand, projection screen has constantly been improved. Digital projection has been developed since the 21st century. In the early stage from 2003 to 2005, with the expansion of application of digital projection in education and business, people require short distance projection and large viewing angle in small room. During 2004 to 2006, due to inadequate brightness and high cost of digital projection, high-gain projection screen has been well developed. However, after 2008, with the technological breakthrough of projector brightness, the quality of the projector has been greatly enhanced, thus the projector has abundant brightness(lumens). High-gains screen has became less popular, even gradually fades out in the market. Medium and low gain screen with high contrast, and even negative gain screen began more popular.



Expert in ALR Screens, Pioneer of Audio-Visual Equipment

The progress of projection technology determines the development of projection screen. Especially, as laser projector has been popularized and people are tend to watch movie under ambient light, projection screen needs to be resistant to ambient light, therefore, projection screen heads towards the development of "Black Screen".

On the one hand, traditional mercury lamp projector is about 1000 lumens, while laser projector is more than 2500 lumens. In the present market, the laser projector is more than 3000 lumens. At the same time, due to the advantages of color purity, actually the laser projector is 1.2-1.3 times brighter than the traditional mercury lamp projector even though they have the same brightness.

On the other hand, people always require high brightness screen despite of the arrival of laser projection. In home theater, business and education market, the required brightness is usually 250-700 lumens per square meter. Such applications account for almost 85% of projector sales. However, the actual brightness of the projector is much higher than consumers' requirement. Why? Because there is a large light loss. As you can see, currently 3000 lumens laser projector is popular, but for 60 inch screen(close to 1 square meter) and 120 inch(4 square meters), there is still a great surplus of brightness.

Laser projection technology leads to an era of "abundant brightness" and even "surplus brightness". How to deal with the surplus brightness? The answer is, use low gain screen. Especially for the laser TV, business, education and other places with bright light, people are tend to choose a high contrast screen, rather than a high gain screen.

In ordinary home theater with only several audience, there are two solutions. 1. Combine low-gain high-contrast screen and high-brightness laser projector to achieve excellent image quality in a bright environment. This is commonly used currently. 2. Use a dark grey or black screen with 3500 lumens laser projector, which is more economical.

No matter what kind of solution, higher color effects and brightness of the laser projection technology are contributing to that more emphasis has been put on the contrast. Dark grey and black screens have higher contrast than white and high-gain screens. High gain has begun to step down from the stage of history, and the era of "Black Screen" will come soon!
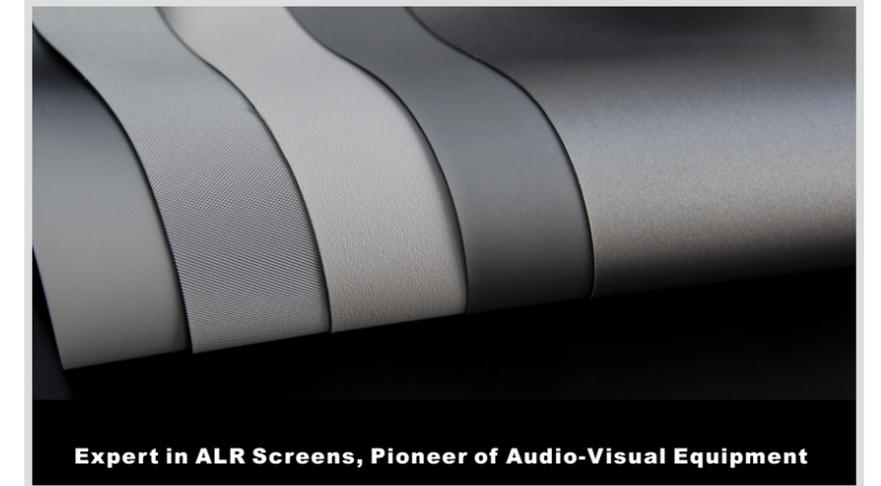
# Fresnel Hard Projection Screen INP-FNE
## INP-FNE

INP-FNE is front projection, uniquely designed for ultra short throw projectors. With the principle of Fresnel lens, it can absorb ambient light from different directions, thus improving the image quality. It is an ideal choice for high end home theaters.

Gain: 1.2
Viewing Angle: 140 degree
Thickness: 1cm

Features
1.Excellent effect;
2.11mm frame, elegant and exquisite;
3.Easy for installation, long life(more than 10 years).

Product Parameter:
Size/Ratio: 100" 16:9
Screen Material: Fresnel Hard Projection Screen
Fabric Color: Dark Grey
Ambient Light Rejecting Ability: Excellent
Gain: 1.2
Applicable Projectors: Ultra Short Throw
Viewing Angle: 140 degree
Total Size: 2234*1265*10mm
Weight: 20kg
4K: Yes
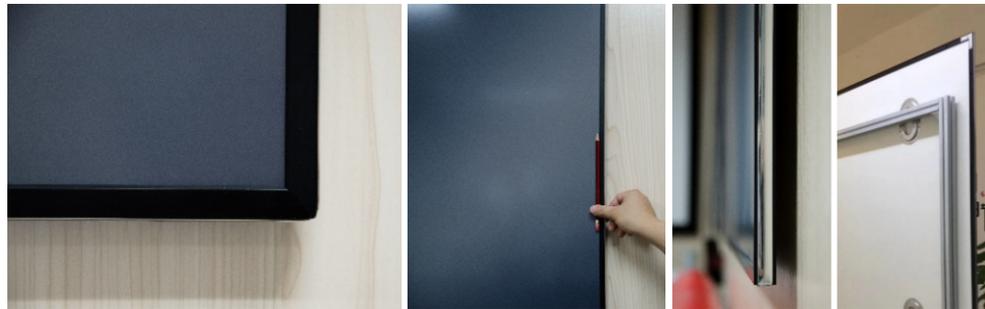
**Black Technology I: Fresnel Lens Structure**
INP-FNE can effectively absorb ambient light, thus providing striking images in bright environment. Fresnel structure is a special optics structure, which can adjust the direction of the incident light, to make the light well distributed.
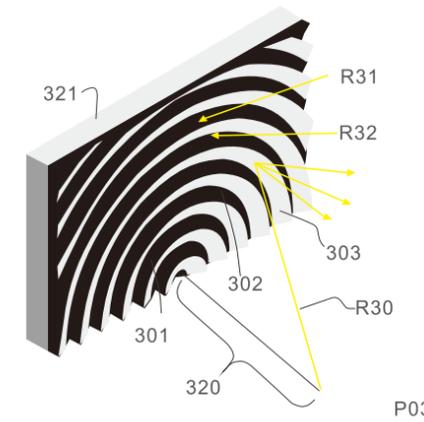
**Black Technology II: 8 Optical Layers**
INP-FNE consists of 8 functional layers, to project high quality images. The dark grey screen can effectively absorb ambient light and improve brightness. Each layer is made of resin material, inside which there are nanoscale particles.

321
R31
R32
303
302
301
320
R30
310
P03

Scratch Resistant Layer
Color Layer
Diffusion Layer
Cylindrical Lens Layer
Speckle Suppression Layer
Fresnel Lens Layer
Reflecting Layer
Black Coating Layer
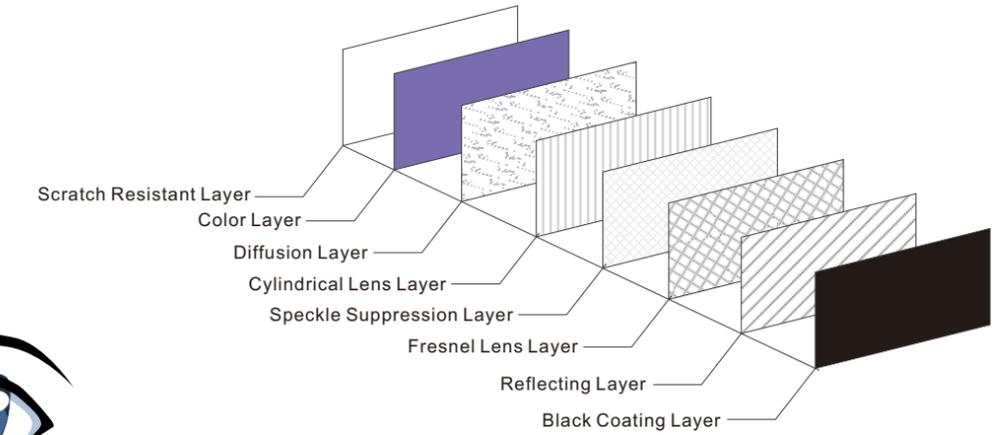
**Black Technology III: high gain, speckle suppression**
INP-FNE has 1.2 Gain, 50% higher than similar projector screens. It can effectively eliminate speckles and protect human eye.

| | | | |
|---|---|---|---|
| Fresnel Lens Principle | 5 Patents | 8 Optical Layers | 11mm Thin Frame |
| Great Ability of Ambient Light Rejection | Last for More Than 10 Years | Elegant and Exquisite Appearance | Speckle Suppression, Eye Protection |

# UST Ambient Light Rejecting Projector Screen
## INP-J-PET Crystal Hard Screen

With special optical sawtooth structure, the ultrashort anti-light screen PET Crystal can avoid 93% ambient light, to present real color. Also, it has no light reflection. Unlike traditional projection screen, PET Crystal is able to present image under bright light. It has removed foggy phenomenon, providing bright, vivid and perfect pictures. With Gain of 0.8 and viewing angle of 160 degree, the audience can see clear and vivid image in all directions. Even if you have watched for a long time, your eyes will not feel tired. Compared to traditional matte white screen, its contrast has been lifted by 10 times.

Product Parameter:
Ratio: 16:9 / 2.35:1 / 4:3 / Customized
Structure: Fixed Frame / Thin Frame Hard Screen(11mm frame)
Fabric Material: PET Hard Screen
Fabric Color: Dark Grey
Ambient Light Rejecting Ability: Excellent
Gain: 0.8
Applicable Projectors: Ultra Short Throw
Viewing Angle: 160 degree
4K: Yes
Size: 90"/100"/120"



Special Frame for Hard Screen HPHK-12A ▼



# UST Ambient Light Rejecting Projector Screen
## SPHK-PET Crystal Soft Screen

With special optical sawtooth structure, the ultrashort anti-light screen PET Crystal can avoid 93% ambient light, to present real color. Also, it has no light reflection. Unlike traditional projection screen, PET Crystal is able to present image under bright light. It has removed foggy phenomenon, providing bright, vivid and perfect pictures. With Gain of 0.8 and viewing angle of 160 degree, the audience can see clear and vivid image in all directions. Even if you have watched for a long time, your eyes will not feel tired. Compared to traditional matte white screen, its contrast has been lifted by 10 times.

Product Parameter:
Ratio: 16:9 / 2.35:1 / 4:3 / Customized
Structure: Fixed Frame / Thin Frame(14mm frame)
Fabric Material: Soft PET
Fabric Color: Dark Grey
Ambient Light Rejecting Ability: Excellent
Gain: 0.8
Applicable Projectors: Ultra Short Throw
Viewing Angle: 160 degree
4K: Yes
Size: 90"/100"/120"/Customized



Micrograph

Special Frame for PET Screen SPHK-85A ▼
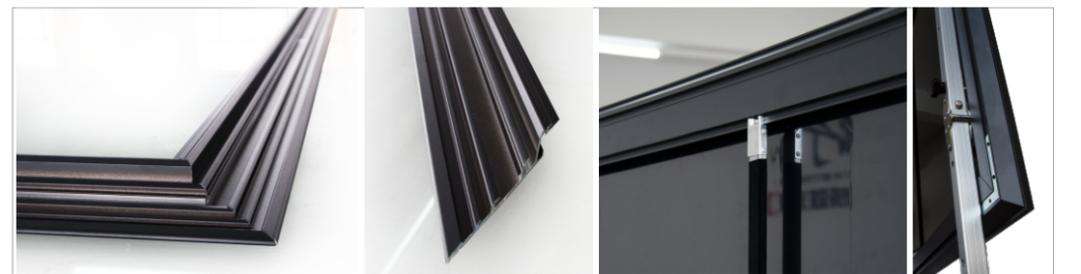


45°, seamless joint    Elegant Frame    Support Bar    Fashionable Design
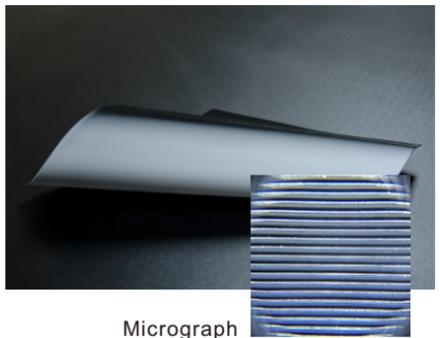
Installation:
Installation is easy - Can be installed within several minutes. The brackets can be adjusted leftwards and rightwards, ensuring you can find the ideal mounting place. The screen and frame are separated into 2 packages, to give the products more protection.

## Ultra Short Throw Ambient Light Rejecting Fabric PET Grid
PET Grid

In order to popularize the ultra short throw projection screen, XY Screens developed this cost-effective screen, PET Grid. This fabric has some tiny grids on the surface, which can absorb ambient light.

Product Parameter:
Ratio: 16:9 / 2.35:1 / 4:3 / Customized
Structure: Fixed Frame / Thin Frame / Hard Screen
Fabric Material: Soft PET
Fabric Color: Dark Grey
Ambient Light Rejecting Ability: Excellent
Gain: 0.8
Applicable Projectors: Ultra Short Throw
Viewing Angle: 160 degree
4K: Yes
Size: 90-200"
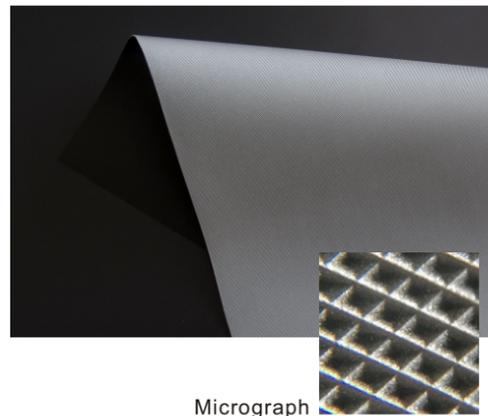




Micrograph



## Standard Throw Ambient Light Rejecting Fabric Black Crystal
Black Crystal



Black Crystal is made of PVC, which is coated with special anti-light material, which absorbs ambient light and lamplight. This product has great anti-interference feature. There is a layer of crystal in the middle of the surface, which effectively improve the brightness and contrast.

Product Parameter:
Ratio: 16:9 / 2.35:1 / 4:3 / Customized
Structure: Fixed Frame / Thin Frame / Motorized
Fabric Material: PVC
Fabric Color: Dark Grey
Ambient Light Rejecting Ability: Excellent
Gain: 0.8
Applicable Projectors: Middle Throw / Long Throw
Viewing Angle: 160 degree
4K: Yes
Size: Customized
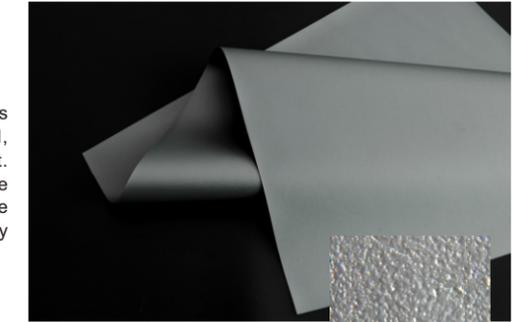


Micrograph

Screen Structure of Black Crystal

PVC Material
Imaging Lager
Crystal Layer
ALR Layer
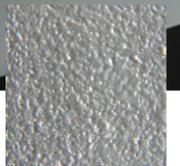




Under Ambient Light
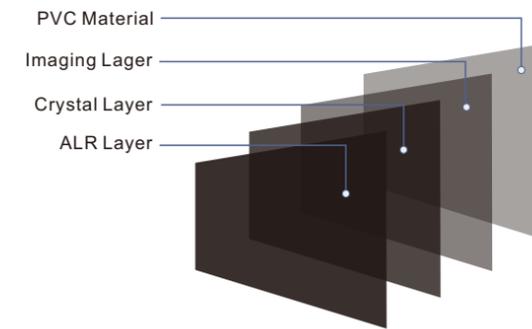
Users are able to enjoy movies during daytime. Its PVC absorbs ambient light effectively, making the image more real.

Under ambient light, Black Crystal improves the contrast by 600% than the normal matte white fabric. There is no foggy phenomenon, so the image is more vivid.

## High Gain Normal Throw Ambient Light Rejecting Fabric Black Crystal HG
### Black Crystal HG

Black Crystal HG is made of PET, specially developed for environment with ambient light. It is for normal throw projectors. The surface is covered with special ambient light rejecting material. In the bright environment, this screen can still show first-class quality, the color is quite brilliant.

Product Parameter:
Ratio: 16:9 / 2.35:1 / 4:3 / Customized
Structure: Fixed Frame / Thin Frame
Fabric Material: PET
Fabric Color: Dark Grey
Ambient Light Rejecting Ability: Excellent
Gain: 2.0
Applicable Projectors: Middle Throw / Long Throw
Viewing Angle: 120 degree
4K: Yes
Size: Customizede color is quite brilliant.
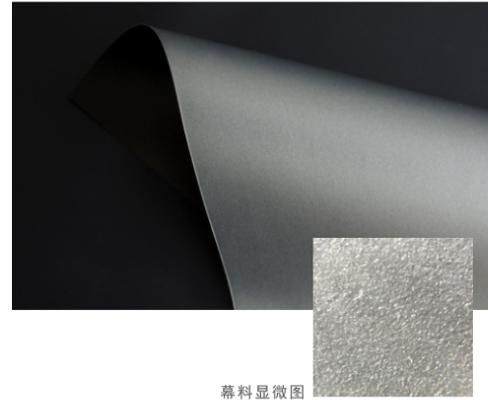
幕料显微图

Screen Structure of Black Crystal HG

PET Material
Imaging Lager
Crystal Layer
ALR Layer
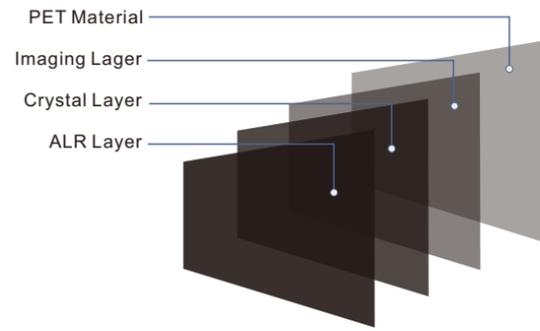
## Glass Rear Hard Screen GAL-R
### GAL-R

GAL-R is developed for high brightness environments. It is suitable for a wide range of applications, including meeting room, multi-function classroom, presentation, advertisement and other occasions which need rear projection. It provides extremely high contrast and brightness, which makes it the ideal choice. It can provide excellent vertical and viewing angle. The glass is ultra clear glass which has passed toughening treatment, so it have long life even in places with large temperature difference. quality, the color is quite brilliant.

Product Parameter:
Imaging Material: organosilicone
Ambient Light Rejecting Ability: Excellent
Gain: 0.75
Applicable Projectors: Universal Projectors
Viewing Angle: 178 degree
Vertical Viewing Angle: 120 degree
4K: Yes

Grating Layer     Optical Glass

Incident Light

Cylindrical Lens Grating Layer     Imaging Layer
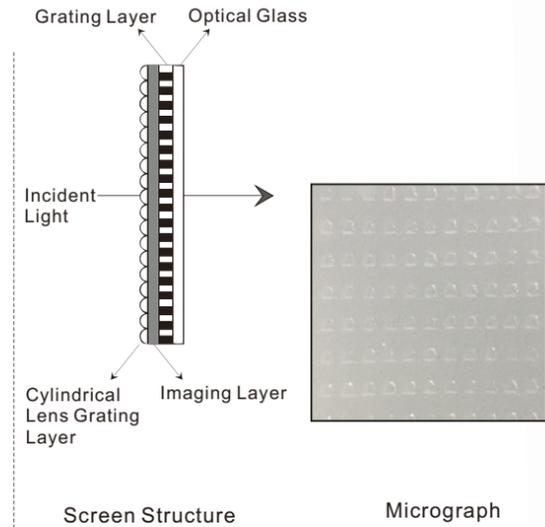
Screen Structure          Micrograph

## HD Gray Flexible PVC Fabric GF1
### GF1
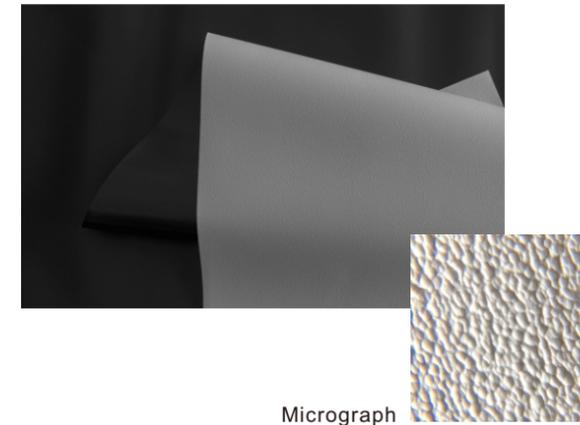
Specifications:
GF1 is made of special PVC. With embossing on the surface, the incident light can be spread in all directions and the visual angle will be enlarged. The color becomes more natural, to ensure the best effect. It is suitable for 2D HD projector and active 3D/4K projector.

Gain: 0.8  Viewing Angle: 160 degree   Thickness: 0.24mm

Micrograph

# Intelligent Electric Tab-tension Screen EC1
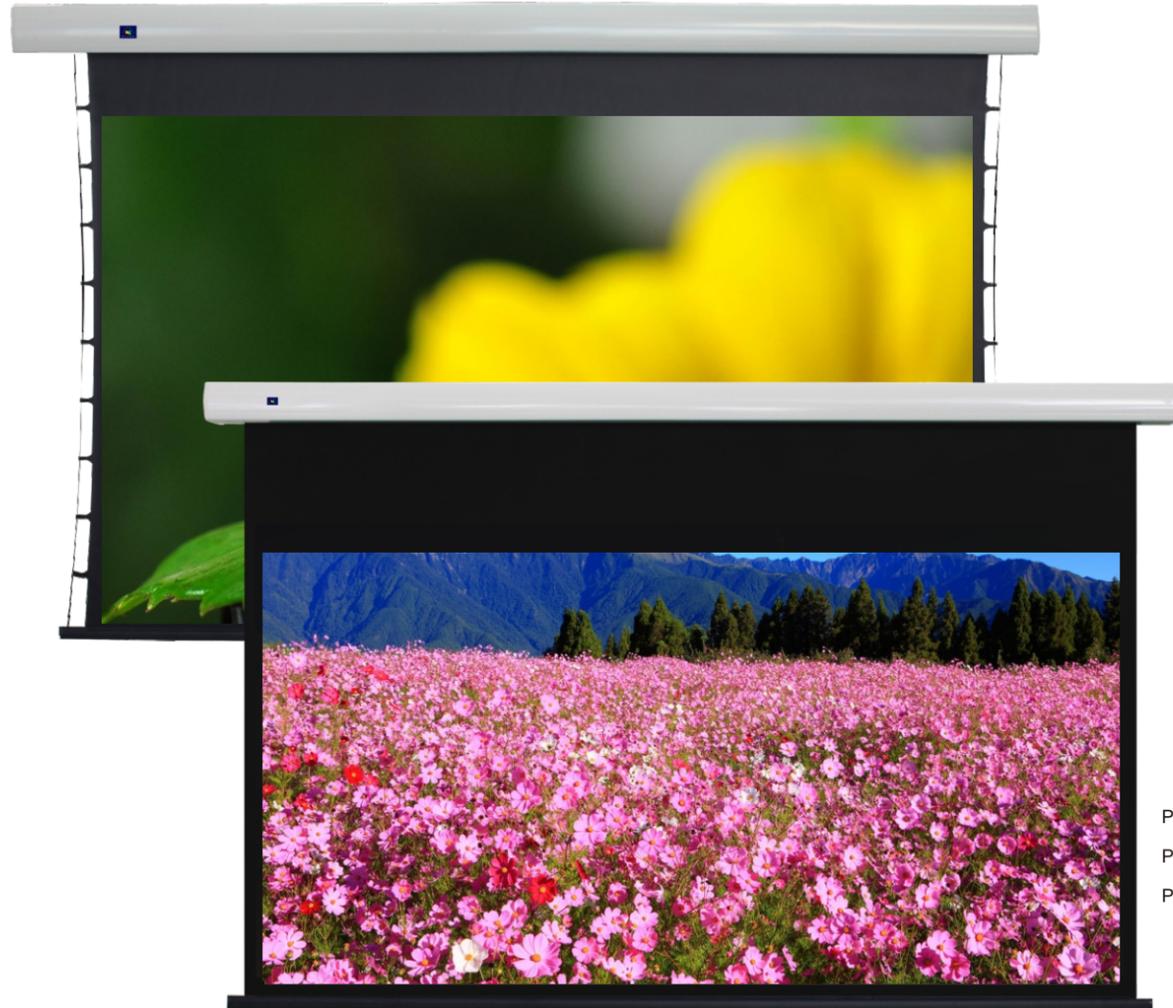


Intelligent Electric Tab-tension Screen EC1

With a breakthrough design concept and configuration, EC1 has very high quality and standard; a number of patent and mute technology have been used, showing the new trend of top screen technology to the public. Equipped with super mute tubular motor and QUIETTUNING mute technology, the lifting speed of EC1 is 50% faster than those screens with synchronous motor. What's more, the noise is decreased by 80%.

Product Parameters
Format:16:9 / 16:10 / 2.35:1 / 4:3/
customized
Housing Material:Aluminum alloy
Power System:High Speed tubular motor+
Mute mechanism
Control Mode:RF/IR Remote Control /
Central Control Adaptor/12V Trigger/
Manual Switch
3D:Yes
4K:Multiple fabrics are optional
Size:80~170 inch

Please refer to P43 for installation mode

Please refer to P44 for remote control introduction

Please refer to P45 for introduction of mute technology

Dimension of EC1 Series

| Format | Size | View Area | | Left-Right Black Border | Bottom Black Border | Top Black Border | Total Height | Total Length (L) | | Package Size(L*W*H) | | N.W | G.W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W (mm) | H (mm) | (B1) | (B2) | (B3) | (A) | Standard | Tensioned | Standard | Tensioned | (KG) | (KG) |
| 16:9 | 80" | 1771 | 996 | 50 | 50 | 649 | 1847 | 2047 | 2222 | 2237*211*223 | 2412*211*223 | 17.8 | 22.9 |
| | 90" | 1992 | 1120 | 50 | 50 | 525 | 1847 | 2268 | 2443 | 2458*211*223 | 2633*211*223 | 18.8 | 23.9 |
| | 100" | 2214 | 1245 | 50 | 50 | 400 | 1847 | 2490 | 2665 | 2680*211*223 | 2855*211*223 | 19.8 | 24.9 |
| | 110" | 2435 | 1369 | 50 | 50 | 430 | 2001 | 2711 | 2886 | 2901*211*223 | 3076*211*223 | 21.3 | 26.7 |
| | 120" | 2656 | 1494 | 50 | 50 | 300 | 1996 | 2932 | 3107 | 3122*211*223 | 3297*211*223 | 22.6 | 28.2 |
| | 130" | 2878 | 1618 | 50 | 50 | 180 | 2000 | 3154 | 3329 | 3344*211*223 | 3519*211*223 | 22.9 | 28.5 |
| | 135" | 2989 | 1680 | 50 | 50 | 110 | 1992 | 3265 | 3440 | 3455*211*223 | 3630*211*223 | 23.5 | 30.5 |
| | 140" | 3099 | 1742 | 50 | 50 | 100 | 2044 | 3375 | 3550 | 3565*211*223 | 3740*211*223 | 25.3 | 31.4 |
| | 150" | 3321 | 1867 | 50 | 50 | 100 | 2169 | 3597 | 3772 | 3787*211*223 | 3962*211*223 | 26.8 | 33.2 |
| | 160" | 3542 | 1991 | 50 | 50 | 100 | 2293 | 3818 | 3993 | 4008*211*223 | 4183*211*223 | 28.4 | 35 |
| | 170" | 3763 | 2116 | 50 | 50 | 100 | 2418 | 4039 | 4214 | 4229*211*223 | 4404*211*223 | 28.4 | 35 |
| 4:3 | 80" | 1626 | 1219 | 50 | 50 | 426 | 1847 | 1902 | 2077 | 2092*211*223 | 2267*211*223 | 17.8 | 22.9 |
| | 100" | 2032 | 1524 | 50 | 50 | 270 | 1996 | 2308 | 2483 | 2498*211*223 | 2673*211*223 | 18.8 | 23.9 |
| | 110" | 2235 | 1676 | 50 | 50 | 120 | 1998 | 2511 | 2686 | 2701*211*223 | 2876*211*223 | 19.8 | 24.9 |
| | 120" | 2438 | 1829 | 50 | 50 | 100 | 2131 | 2714 | 2889 | 2904*211*223 | 3079*211*223 | 21.3 | 26.7 |
| | 135" | 2743 | 2057 | 50 | 50 | 100 | 2359 | 3019 | 3194 | 3209*211*223 | 3384*211*223 | 22.6 | 28.2 |
| | 150" | 3048 | 2286 | 50 | 50 | 100 | 2588 | 3324 | 3499 | 3514*211*223 | 3689*211*223 | 24 | 30 |

End Cap Parameter    In-ceiling installation Parameter
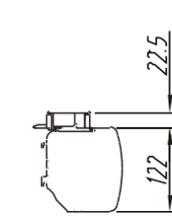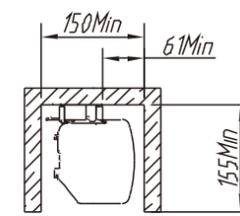


Ceiling Mounting
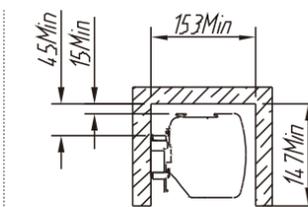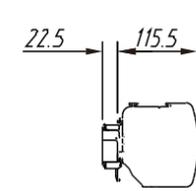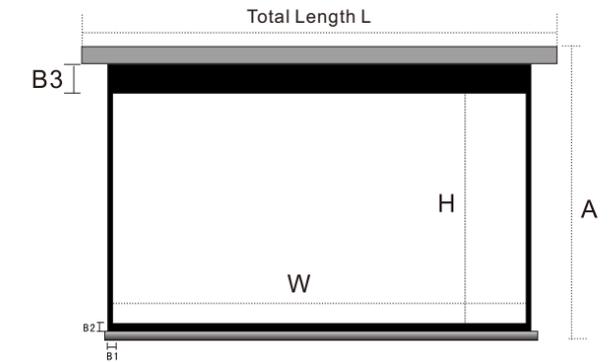
Wall Mounting

# Electric Screen EC2 Series

1. Aluminum Alloy Housing: Beautiful and exquisite with smooth surface treatment.

2. Aluminum Alloy Bottom Rod: Delta mechanical design, to ensure flat surface.

3. Sliding Multifunctional Mounting Bracket: Supports wall mount, in-ceiling mount and ceiling mount.

**Intelligent Motorized Projection Screen EC2**
Designed by famous designer from French, the aluminum alloy housing is stylish and durable, just like a piece of art. Special Motor in roller design keeps a quiet and smooth operation.

**Product Parameters**
Format:16:9 / 16:10 / 2.35:1 / 4:3 / customized
Housing Material:Aluminum Alloy
Power System:Mute Synchronous Motor
Control Mode:RF/IR Remote Control / Manual switch
3D:Yes
4K:Multiple fabrics are optional
Size:80~170 inch

Please refer to P43 for installation mode

Please refer to P44 for remote control introduction

Please refer to P45 for introduction of mute technology

| Comparison of various EC 1 models | | | | | | |
|---|---|---|---|---|---|---|
| Model Name | Fabric Name | HD/4K | Support 3D Mode | Sound-Transparent | Tab Tension | Projection Mode |
| EC1-Sound Max5 HG | Sound Max5 HG | HD | Active | Yes | Yes | Front |
| EC1-Sound Max5 | Sound Max5 | HD | Active | Yes | yes | Front |
| EC1-Sound Max4K | Sound Max4K | 4K | Active | Yes | yes | Front |
| EC1-WF1PRO | WF1PRO | HD | Active | No | yes | Front |
| EC1-WG1PRO | WG1PRO | 4K | Active | No | yes | Front |
| EC1-WG1 | WG1 | HD | Active | No | no | Front |
| EC1-RGF1 | RGF1 | HD | Active | NO | yes | Rear |
| EC1-MF1 | MF1 | HD | Active +Passive | NO | yes | Front |

1. Aluminum Alloy Housing: Beautiful and exquisite with smooth surface treatment.

2. Aluminum Alloy Bottom Rod: Delta mechanical design, to ensure flat surface.

3. Sliding Multifunctional Mounting Bracket: Supports wall mount, in-ceiling mount and ceiling mount.

## Dimension of EC2 Series

| Format | Size | View Area | | Left-Right Black Border | Bottom Black Border | Top Black Border | Total Height | Total Length (L) | | Package Size(L*W*H) | | N.W | G.W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W (mm) | H (mm) | (B1) | (B2) | (B3) | (A) | Standard | Tensioned | Standard | Tensioned | (KG) | (KG) |
| 16:9 | 80" | 1771 | 996 | 50 | 50 | 668 | 1850 | 2066 | 2216 | 2296*150*158 | 2446*150*158 | 13.5 | 17.9 |
| | 92" | 2037 | 1145 | 50 | 50 | 519 | 1850 | 2332 | 2482 | 2562*150*158 | 2712*150*158 | 14.6 | 19.4 |
| | 100" | 2214 | 1245 | 50 | 50 | 419 | 1850 | 2509 | 2659 | 2739*150*158 | 2889*150*158 | 15.4 | 20.3 |
| | 110" | 2435 | 1369 | 50 | 50 | 450 | 2005 | 2730 | 2880 | 2960*150*158 | 3110*150*158 | 16.6 | 21.7 |
| | 120" | 2656 | 1494 | 50 | 50 | 320 | 2000 | 2951 | 3101 | 3181*150*158 | 3331*150*158 | 17.6 | 23.1 |
| | 130" | 2878 | 1618 | 50 | 50 | 200 | 2004 | 3173 | 3323 | 3403*150*158 | 3553*150*158 | 18 | 24 |
| | 135" | 2989 | 1680 | 50 | 50 | 130 | 1996 | 3284 | 3434 | 3514*150*158 | 3664*150*158 | 19 | 24.8 |
| | 150" | 3321 | 1867 | 50 | 50 | 100 | 2169 | 3597 | 3772 | 3787*211*223 | 3962*211*223 | 25.8 | 31.9 |
| | 160" | 3542 | 1991 | 50 | 50 | 100 | 2294 | 3818 | 3993 | 4008*211*223 | 4183*211*223 | 27.3 | 33.7 |
| | 170" | 3763 | 2116 | 50 | 50 | 100 | 2418 | 4039 | 4214 | 4229*211*223 | 4404*211*223 | 27.8 | 34.4 |
| 4:3 | 80" | 1626 | 1219 | 50 | 50 | 445 | 1850 | 1921 | 2071 | 2151*150*158 | 2301*150*158 | 12.8 | 17.1 |
| | 100" | 2032 | 1524 | 50 | 50 | 290 | 2000 | 2328 | 2477 | 2558*150*158 | 2707*150*158 | 14.8 | 19.5 |
| | 110" | 2235 | 1676 | 50 | 50 | 140 | 2002 | 2531 | 2680 | 2761*150*158 | 2910*150*158 | 15.7 | 20.6 |
| | 120" | 2438 | 1829 | 50 | 50 | 100 | 2114 | 2691 | 2883 | 2921*150*158 | 3113*150*158 | 16.7 | 21.9 |
| | 135" | 2743 | 2057 | 50 | 50 | 100 | 2343 | 3040 | 3188 | 3270*150*158 | 3418*150*158 | 18.5 | 24 |
| | 150" | 3048 | 2286 | 50 | 50 | 100 | 2588 | 3324 | 3499 | 3514*211*223 | 3689*211*223 | 24 | 30 |
| | 160" | 3251 | 2438 | 50 | 50 | 100 | 2740 | 3527 | 3702 | 3717*211*223 | 3892*211*223 | 25.5 | 32 |

| Comparison of various EC 2 models | | | | | | | |
|---|---|---|---|---|---|---|---|
| Product ModelFabric | Model | HD/4K | Support 3D Mode | Sound-Transparent | Tension ScreenProjection | Mode Ambient | Light Rejecting |
| EC2-Sound Max4K | Sound Max4K | 4K | Active | Yes | Yes | Front | NO |
| EC2-WF1PRO | WF1PRO | 4K | Active | No | Yes | Front | NO |
| EC2-WG1PRO | WG1PRO | 4K | Active | No | Yes | Front | NO |
| EC2-WG1 | WG1 | HD | Active | No | Yes | Front | NO |
| EC2-MF1 | MF1 | 4K | Active +Passive | NO | Yes | Front | NO |
| EC2-Black Crystal | Black Crystal | 4K | Active | NO | Yes | Front | Yes |
| EC2-DP1 | DP1 | 4K | Active | NO | Yes | Front | NO |
| EC2-BS1 | BS1 | HD | Active | NO | Yes | Front | NO |
| EC2-CBS1 | CBS1 | HD | Active | NO | Yes | Front | NO |



Installation parameter for the size below 135"

End Cap Parameter    In-ceiling Installation Parameter
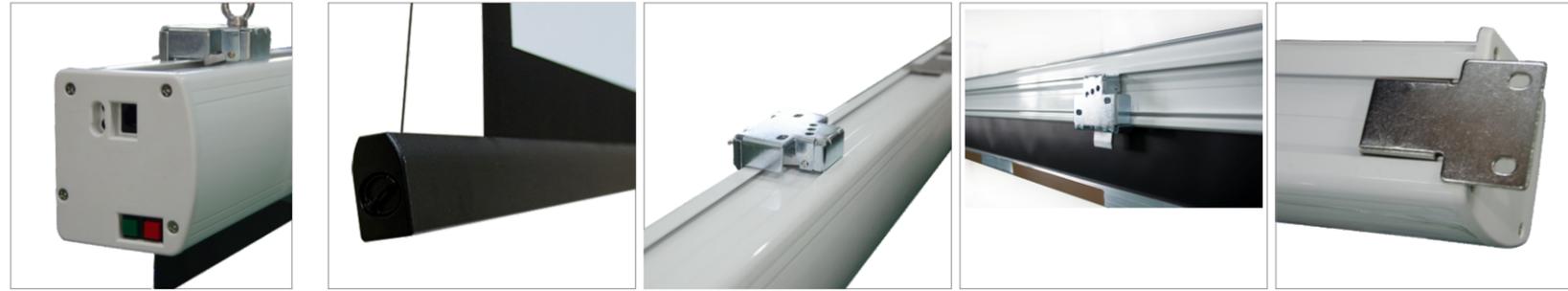
Ceiling Mounting

Wall Mounting

Installation parameter for the size over 135"

End Cap Parameter    In-ceiling Installation Parameter

Ceiling Mounting

Wall Mounting
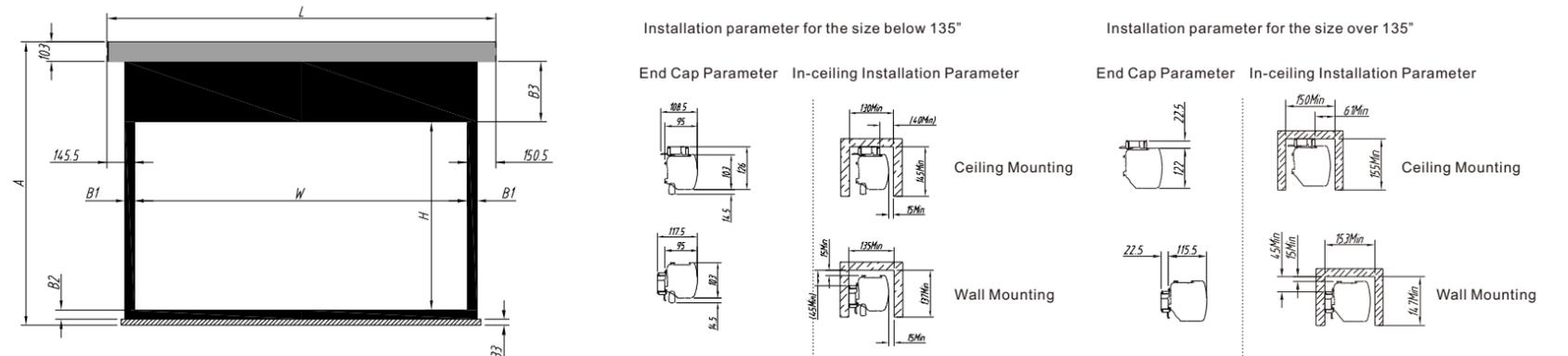
# Large Motorized Screen EC Series
## EC130/EC150/EC220

EC series is a high-end aluminum housing intelligent electric screen, adopting large diameter silent roller, automatic smoothing screen structure and aseismic design. With unique two-pieces housing design, provides a great convenience for debugging and maintenance.

Product Features:

Smooth shape, high-end, fashionable, durable and graceful.
Automatic smoothing screen structure, ensure flat screen surface even in large size.
Aseismic design, reducing vibration and above 60% noise, and improving the mechanical life
Two-pieces casing design provides a great convenience for debugging and maintenance.
EC130≤200 inch
EC150≤250 inch
Ec220≤350 inch





EC130        EC150        EC220

## Dimension of EC Series

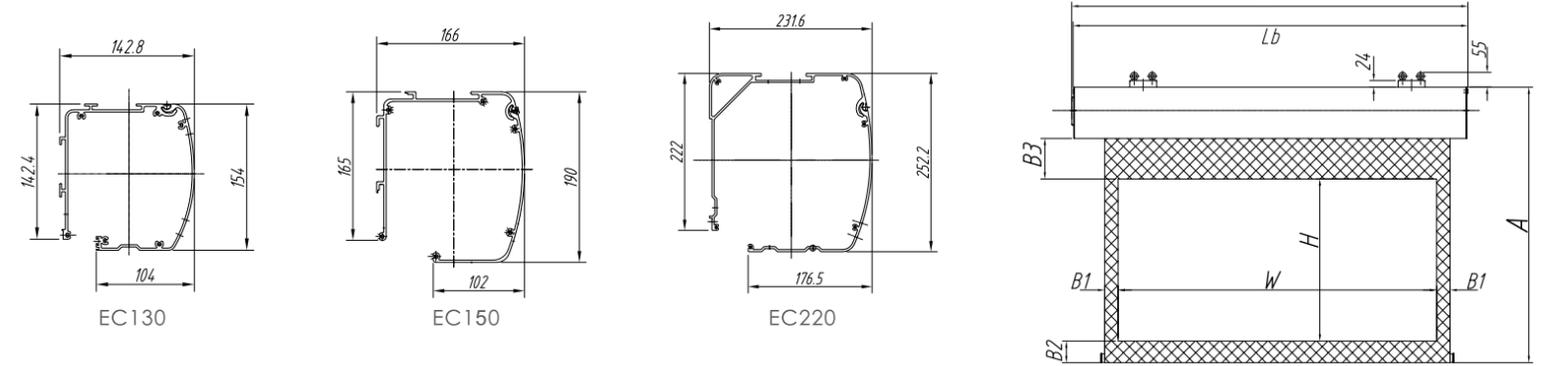| Format | Size | Shell model | View Area | | Left-Right Black Border | Bottom Black Border | Top Black Border | Total Height | Total Length (L) | | | | Package Size<W(mm)*H(mm)*> | | N.W | G.W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Bulit-in Remote La | | External Remote Lb | | | | | |
| | | | W(mm) | H(mm) | (B1) | (B2) | (B3) | (A) | Standard | Tensioned | Standard | Tensioned | Standar | Tensioned | (KG) | (KG) |
| 4:3 | 180 " | EC130 | 3658 | 2743 | 50 | 80 | 100 | 3077 | 3947 | 4127 | 3943 | 4123 | 4147*221*209 | 4327*221*209 | 47 | 53 |
| | 200 " | EC130 | 4064 | 3048 | 50 | 80 | 100 | 3382 | 4354 | 4534 | 4350 | 4530 | 4554*221*209 | 4734*221*209 | 52 | 58 |
| | 220 " | EC150 | 4470 | 3353 | 50 | 80 | 150 | 3775 | 4754 | 4941 | 4750 | 4937 | 4844*240*264 | 5031*240*264 | 66 | 73 |
| | 250 " | EC150 | 5080 | 3810 | 50 | 80 | 150 | 4232 | 5364 | 5551 | 5360 | 5547 | 5454*240*264 | 5641*240*264 | 74 | 82 |
| | 275 " | EC220 | 5588 | 4191 | 50 | 80 | 150 | 4674 | 5954 | 6174 | 5950 | 6170 | 6260*313*265 | 6480*313*265 | 119 | 207 |
| | 300 " | EC220 | 6096 | 4572 | 50 | 80 | 150 | 5055 | 6462 | 6682 | 6458 | 6678 | 6768*313*265 | 6988*313*265 | 129 | 224 |
| | 325 " | EC220 | 6604 | 4953 | 50 | 80 | 150 | 5436 | 6970 | 7190 | 6966 | 7186 | 7276*313*265 | 7496*313*265 | 139 | 242 |
| | 350 " | EC220 | 7112 | 5334 | 50 | 80 | 150 | 5817 | 7478 | 7698 | 7474 | 7694 | 7784*313*265 | 8004*313*265 | 150 | 259 |
| 16:9 | 180 " | EC130 | 3985 | 2240 | 50 | 80 | 100 | 2574 | 4274 | 4454 | 4270 | 4450 | 4474*221*209 | 4654*221*209 | 49 | 55 |
| | 200 " | EC130 | 4427 | 2489 | 50 | 80 | 100 | 2823 | 4717 | 4897 | 4713 | 4893 | 4917*221*209 | 5097*221*209 | 54 | 61 |
| | 220 " | EC150 | 4870 | 2738 | 50 | 80 | 150 | 3160 | 5159 | 5346 | 5150 | 5337 | 5244*240*264 | 5431*240*264 | 70 | 77 |
| | 250 " | EC150 | 5534 | 3112 | 50 | 80 | 150 | 3534 | 5823 | 6010 | 5814 | 6001 | 5908*240*264 | 6095*240*264 | 78 | 86 |
| | 275 " | EC220 | 6088 | 3423 | 50 | 80 | 150 | 3906 | 6453 | 6673 | 6449 | 6669 | 6759*313*265 | 6979*313*265 | 125 | 220 |
| | 300 " | EC220 | 6641 | 3734 | 50 | 80 | 150 | 4217 | 7007 | 7227 | 7003 | 7223 | 7313*313*265 | 7533*313*265 | 135 | 238 |
| | 325 " | EC220 | 7195 | 4045 | 50 | 80 | 150 | 4528 | 7560 | 7780 | 7556 | 7776 | 7866*313*265 | 8086*313*265 | 146 | 257 |
| | 350 " | EC220 | 7748 | 4356 | 50 | 80 | 150 | 4839 | 8114 | 8334 | 8110 | 8330 | 8420*313*265 | 8640*313*265 | 157 | 275 |
| 2.35:1 | 180 " | EC130 | 4206 | 1790 | 50 | 80 | 100 | 2124 | 3947 | 4676 | 3943 | 4672 | 4147*221*209 | 4876*221*209 | 50 | 57 |
| | 200 " | EC150 | 4674 | 1989 | 50 | 80 | 150 | 2411 | 4963 | 5150 | 4959 | 5146 | 5053*240*264 | 5240*240*264 | 66 | 73 |
| | 220 " | EC150 | 5140 | 2180 | 50 | 80 | 150 | 2602 | 5429 | 5616 | 5425 | 5612 | 5519*240*264 | 5706*240*264 | 72 | 79 |
| | 250 " | EC220 | 5842 | 2486 | 50 | 80 | 150 | 2969 | 6208 | 6428 | 6204 | 6424 | 6514*313*265 | 6734*313*265 | 118 | 209 |
| | 275 " | EC220 | 6427 | 2735 | 50 | 80 | 150 | 3218 | 6793 | 7013 | 6789 | 7009 | 7099*313*265 | 7319*313*265 | 128 | 228 |
| | 300 " | EC220 | 7011 | 2983 | 50 | 80 | 150 | 3466 | 7377 | 7597 | 7373 | 7593 | 7683*313*265 | 7903*313*265 | 139 | 247 |
| | 325 " | EC220 | 7595 | 3232 | 50 | 80 | 150 | 3715 | 7961 | 8181 | 7957 | 8177 | 8267*313*265 | 8487*313*265 | 149 | 265 |

## In-ceiling Motorized Screen HCL1

HCL1 is a concealed in-ceiling mount electric screen, where the casing is mounted within the ceiling structure, creating a flush surface. The screen surface is flat, with exceptional color and uniformity. This screen is perfect for any residential, commercial or house of worship installation(including business meetings boardrooms classrooms and home theater setups) that requires a flush-mounted projection screen that can be hidden while not in use. HCL1 features the IR remote, 12V trigger and RS485. The white case is made of aluminum. Its unusually quiet operation is due to the powerful and quiet tubular motor.

modern stylish decorative patterns

Product Parameters
Format:16:9/customized
Housing Material:Aluminum Alloy
Power System:Tubular Motor
Control Mode:RF/IR Remote Control/ Manual Switch
3D:Yes
4K:Multiple fabrics are optional
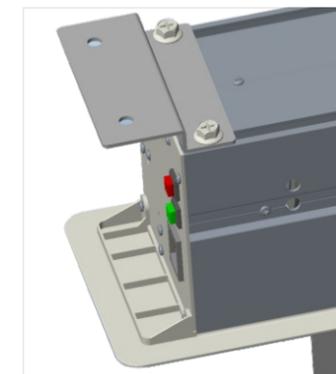Size:80~170 inch

Patent Spring Desigh

Please refer to P44 for remote control introduction

Please refer to P45 for introduction of mute technology
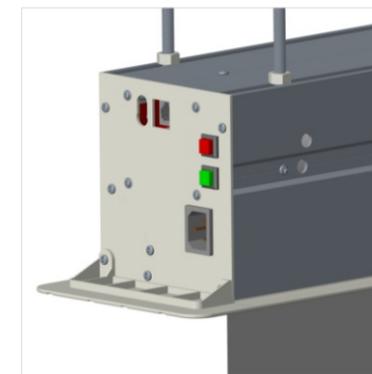


Center Control End Cap

Ceiling Mounting
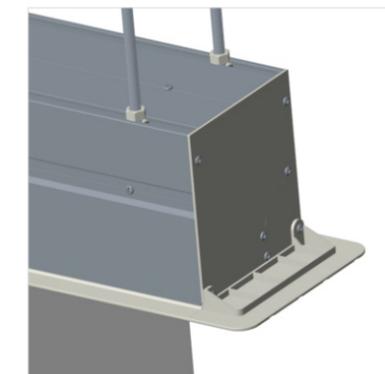
Top Mounting Detail Drawing 1
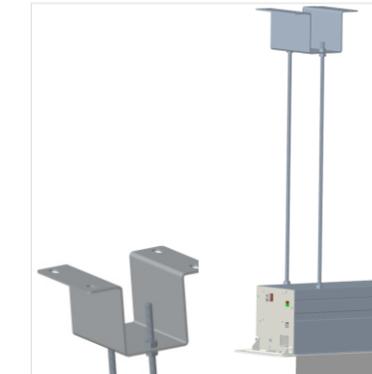
Top Mounting Detail Drawing 2

### Dimension of HCL1 Series

| Format | Size | View Area | | Top Black Border | Total Height | Total Length L (mm) | | slotting Length (mm) | | slotting Width | Package Size (mm) | | Weight (KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W（mm） | H（mm） | B3(mm) | A(mm) | Standar | Tensioned | Standar | Tensioned | (mm) | Standar | Tensioned | |
| 4:3 | 80" (1625*1219) | 1625 | 1219 | 400 | 1850 | 2000 | 2165 | 1975 | 2140 | 132 | 211*223*2150 | 211*223*2315 | 18 |
| | 100" (2032*1524) | 2032 | 1524 | 250 | 2000 | 2407 | 2572 | 2382 | 2547 | 132 | 211*223*2557 | 211*223*2722 | 21 |
| | 120" (2438*1828) | 2438 | 1828 | 150 | 2207 | 2813 | 2978 | 2788 | 2953 | 132 | 211*223*2963 | 211*223*3128 | 24 |
| | 150" (3048*2286) | 3048 | 2286 | 100 | 2615 | 3423 | 3588 | 3398 | 3563 | 132 | 211*223*3573 | 211*223*3738 | 29 |
| | 160" (3251*2438) | 3251 | 2438 | 100 | 2767 | 3626 | 3791 | 3601 | 3766 | 132 | 211*223*3776 | 211*223*3941 | 30 |
| | 170" (3454*2590) | 3454 | 2590 | 100 | 2949 | 3829 | 3994 | 3804 | 3969 | 132 | 211*223*3979 | 211*223*4144 | 32 |
| 16:9 | 80" (1771*996) | 1771 | 996 | 625 | 1850 | 2146 | 2311 | 2121 | 2286 | 132 | 211*223*2296 | 211*223*2461 | 19 |
| | 92" (2036*1145) | 2036 | 1145 | 475 | 1850 | 2411 | 2576 | 2386 | 2551 | 132 | 211*223*2561 | 211*223*2726 | 21 |
| | 100" (2213*1245) | 2213 | 1245 | 375 | 1850 | 2588 | 2753 | 2563 | 2728 | 132 | 211*223*2738 | 211*223*2903 | 22 |
| | 110" (2435*1369) | 2435 | 1369 | 400 | 1998 | 2810 | 2975 | 2785 | 2950 | 132 | 211*223*2960 | 211*223*3125 | 23 |
| | 120" (2656*1494) | 2656 | 1494 | 280 | 2003 | 3031 | 3196 | 3006 | 3171 | 132 | 211*223*3181 | 211*223*3346 | 25 |
| | 130" (2877*1618) | 2877 | 1618 | 150 | 1997 | 3252 | 3417 | 3227 | 3392 | 132 | 211*223*3402 | 211*223*3567 | 26 |
| | 135" (2988*1681) | 2988 | 1681 | 150 | 2060 | 3363 | 3528 | 3338 | 3503 | 132 | 211*223*3513 | 211*223*3678 | 27 |
| | 150" (3320*1867) | 3320 | 1867 | 150 | 2246 | 3695 | 3860 | 3670 | 3835 | 132 | 211*223*3845 | 211*223*4010 | 30 |
| | 160" (3542*1992) | 3542 | 1992 | 150 | 2371 | 3917 | 4082 | 3892 | 4057 | 132 | 211*223*4067 | 211*223*4232 | 32 |
| | 170" (3763*2116) | 3763 | 2116 | 150 | 2495 | 4138 | 4303 | 4113 | 4278 | 132 | 211*223*4288 | 211*223*4453 | 34 |

TRIC OUT 12 V Trigger

Center Control/Computer Interface

Manual Switch/emergency switch

135.5

Power Interface

121
156

Center Control Interface

L

B3

A

H

W

Patent Spring Desigh
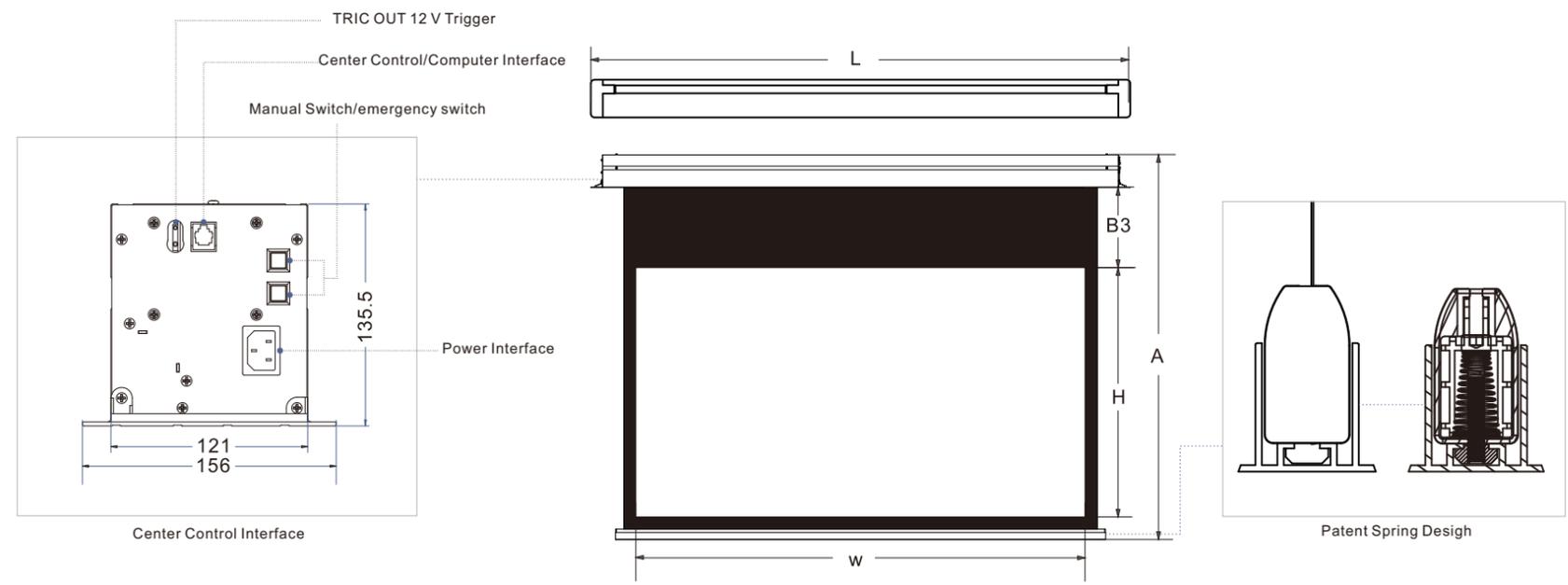
## Installation Accessories

Movable all-round installation pendant (2)

Top mounting panel

Safe lock(2)

Ring(2)

hook(2) Suitable for 80°~135

M6 sleeve hook(2) (Suitable for 135"+)

5X40 tapping screw(4)

No.8 Swell plastic button(4)

Het nut(2)

Sleeve screw(4)

Movable all-round installation pendant
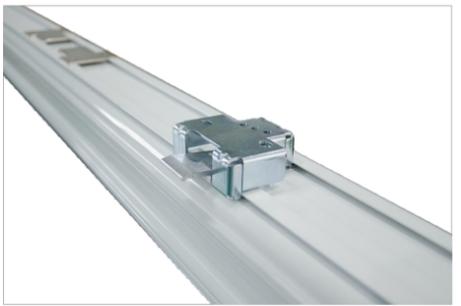
Slide Integrated Installation for Ceiling Mounting

Slide Integrated Installation for Wall Mounting

EC Top mounting panel

Top mounting panel will be installed well before delivery
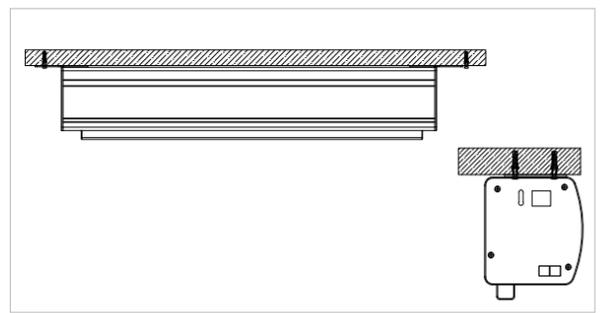
Fixed in the wall with tapping screw and Sleeve screw

| Comparison of various HCL1 model | | | | | | | |
|---|---|---|---|---|---|---|---|
| Product Model | Fabric Model | HD/4K | Support 3D Mode | Sound-Transparent | Tension Screen | Projection Mode | AmbientLight Rejecting |
| HCL1-Sound Max4K | Sound Max4K | 4K | Active | Yes | Yes | Front | NO |
| HCL1-WF1PRO | WF1PRO | 4K | Active | No | Yes | Front | NO |
| HCL1-WG1PRO | WG1PRO | 4K | Active | No | Yes | Front | NO |
| HCL1-WG1 | WG1 | HD | Active | No | Yes | Front | NO |
| HCL1-MF1 | MF1 | 4K | Active +Passive | No | Yes | Front | NO |
| HCL1-Black Crystal | Black Crystal | 4K | Active | No | Yes | Front | Yes |
| HCL1-DP1 | DP1 | 4K | Active | No | Yes | Front | NO |
| HCL1-CBS1 | CBS1 | HD | Active | No | Yes | Front | NO |

# Installation Method

# Remote Control Mode

Wooden wall installation mode
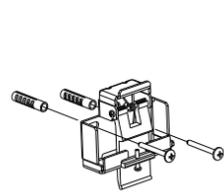
Wooden ceiling top mounting installation mode
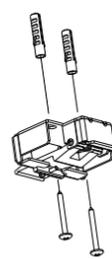
Concrete/brick wall installation mode
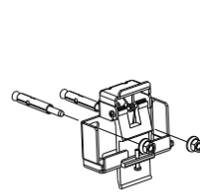
Concrete mounting installation mode

Wall Mounting

Ceiling Mounting



与墙面平行框
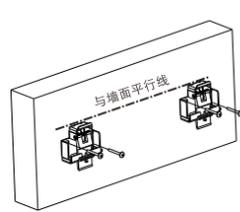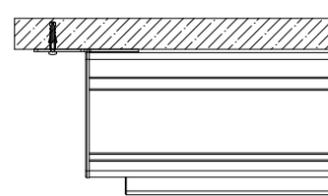
**A** Wall Mounting Mode
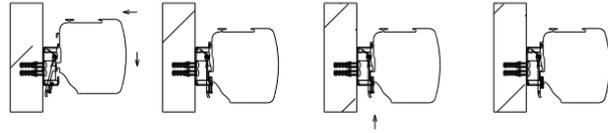


**B** Ceiling Mounting Mode
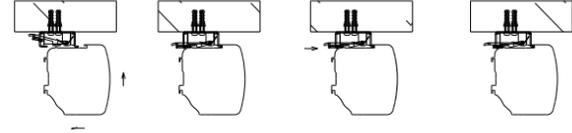


**C** Top Mounting
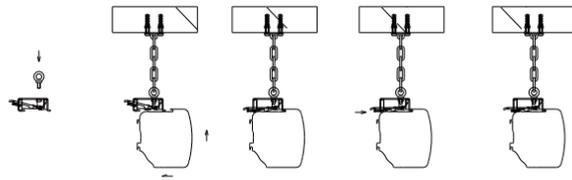


**D** In-Ceiling Mounting
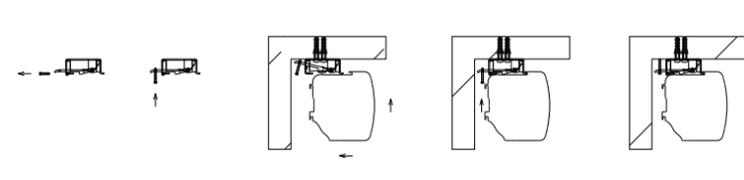


There are two electric screen control modes, manual control mode and remote control mode.
First: Manual control instruction:
Use the switch to control the screen up and down. When you choose "down", the screen will expand; when you choose "up", the screen will recover
Second: Build-in wireless control/external wireless control/ IR remote control is optional for electric screen users.

1.extend:
The screen will fall to the setting position when you push this button.
2.recover:
The screen will recover when you push this button.
3.Stop:
The screen will stop when you push this button.

AC101
built-in RF Remote

AC202-04
External RF Remote

## Control Mode

**1** Remote control
Remote-controlled distance reaches 25m in any direction

**2** IR control
Remote-controlled distance reaches 8m, in the direction within plus or minus 60 degree.

**3** End cap control

TRIC OUT 12V Synchronization Trigger Interface

RS485/Computer Interface

External IR Receiver Interface

External IR Receiver Interface

Trigger control cable

Projector

Neptune Apex

Computer

External IR Receiver Cable
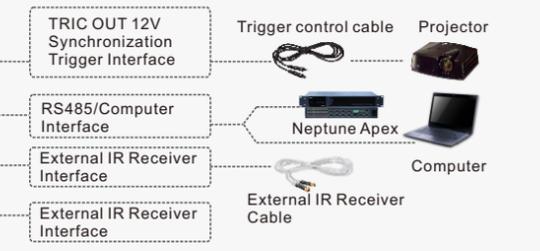
## Super Mute Tubular Motor

Quiet
This product adopts complete QuietTuning technology, which includes three major designs:

1、Motor Side Mute Design: Built-in positive shock absorption mute technology tubulous motor;

2、Scroll AVRS Design: Moving parts and fixed parts are adopted flexibly connected. Vibration of moving parts is absorbed by flexible connection device,
to reduce noise and vibration caused by resonance of motor and the shell.
Compared to normal motor
50% faster
80% less noisy
lifetime is 5 times longer

3、Screen Recovery Mute Design: While recovering the screen, the screen and the shell have mutual movement. Also, when the shell and the balance weight lever are connected, there will be noise. The sound absorption strip will reduce the noise by 30%.
You will nearly hear no noise 2 meters away.

■ QuietTuning Technology

■ Appearance

■ Decomposition diagram

Stroke  Capacitor  Mute  Mute Motor  Brake  Reduction  Mute

Screen Recovery Mute Design

Scroll AVRS Design

Motor

scroll

Motor Side Mute Design

Right End Cap
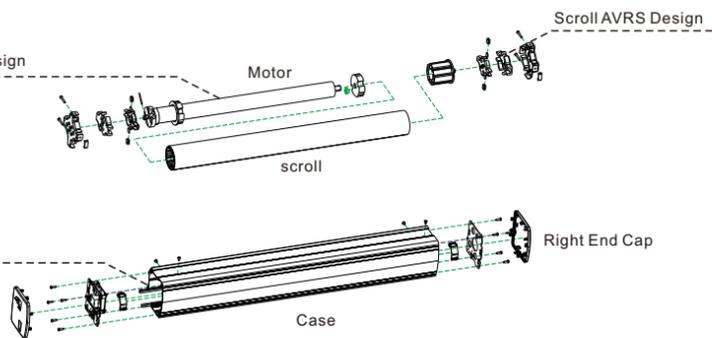
Case

# Case Shows

## Various Frames are Optional

Colorful frame, Wonderful Visual
Five colors are optional, easy to collocate for your room.

Colorful frame, Wonderful Visual

- ■ Black
- ■ Orange
- ■ Blue
- □ White
- ■ Grey
- ■ Golden
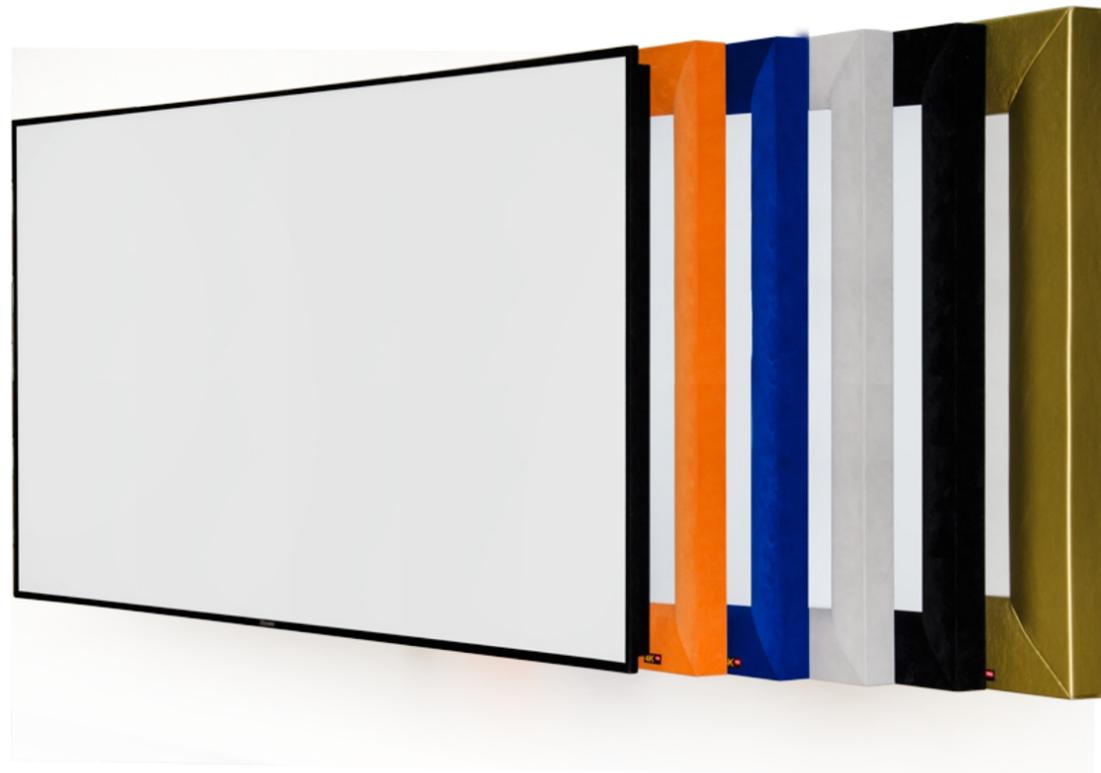
Black          Black          Golden          Orange          Grey          Blue

## 12mm Ultra Thin Bezel Screen ZHK100B & Curved Thin Bezel Screen CZHK100B

Ultra Thin Frame Projection Screen ZHK100B which provides the thinnest visible bezel/frame available in the market today is uniquely designed to resemble a premium LED TV but with much larger viewing area options. ZHK100B Thin Edge Frame uses sturdy extruded aluminum alloy frame with 12mm edge border that offers maximized viewing, making this an excellent addition to both home theater and commercial applications. Watch as your viewing experience soars to new heights of enjoyment!
Excellent picture quality: Suitable for 4K & 3D television/movies.
Installation is easy - With its easy and adjustable fabric spring system, our Fixed Frame Screen is perfectly and permanently tensioned, ensuring that the screen is as flat and level as the mirror. Special designed slim bracket for an easy click on installation, also available as an in-wall display. Therefore, the users are able to set up in seconds.

Parameter
Format:16:9/4:3/16:10/2.35:1 customization
Housing Material:Aluminum alloy with velvet
Frame Shape:Flat/ Curved
Frame Width:12mm
3D:Yes
4K:multiple fabrics are optional
Size:80~400 inch
Arc Radius:0.75~2 times the radius

Mounting Accessories

Top Bracket          Bottom Bracket          Inter Corner Brace          External Corner Brace          Connecting Bar          screwdriver          Hook          Accessories for curved frame screen only

Dimension of ZHK-100B Series

| Format | Size | View Area | | Frame Size | | Package Size | Frame Thiness (mm) |
|---|---|---|---|---|---|---|---|
| | | W (mm) *H (mm) | | Frame Length (L) mm | Frame Height mm (A) | W (mm) *H (mm) *H | |
| 16:9 | 80" | 1771 | 996 | 1795 | 1020 | 1983*342*148 | 12 |
| | 90" | 1992 | 1120 | 2016 | 1144 | 2204*342*148 | 12 |
| | 100" | 2213 | 1245 | 2237 | 1269 | 2425*342*148 | 12 |
| | 110" | 2435 | 1369 | 2459 | 1393 | 2647*342*148 | 12 |
| | 120" | 2656 | 1494 | 2680 | 1518 | 2868*342*148 | 12 |
| | 135" | 2988 | 1681 | 3012 | 1705 | 3200*342*148 | 12 |
| | 140" | 3099 | 1743 | 3123 | 1767 | 3311*342*148 | 12 |
| | 150" | 3320 | 1867 | 3344 | 1891 | 3532*342*148 | 12 |
| | 160" | 3542 | 1992 | 3566 | 2016 | 3680*342*148 | 12 |
| | 170" | 3763 | 2116 | 3787 | 2140 | 3754*342*148 | 12 |
| | 180" | 3984 | 2241 | 4008 | 2265 | 2596*240*264 | 12 |
| | 200" | 4427 | 2490 | 4451 | 2514 | 2847*240*264 | 12 |
| 4:3 | 100" | 2032 | 1524 | 2056 | 1548 | 2244*342*148 | 12 |
| | 120" | 2438 | 1828 | 2462 | 1852 | 2650*342*148 | 12 |
| | 150" | 3048 | 2286 | 3072 | 2310 | 3260*342*148 | 12 |
| | 180" | 3657 | 2743 | 3681 | 2767 | 3869*240*264 | 12 |
| | 200" | 4064 | 3048 | 4088 | 3072 | 3399*240*264 | 12 |
| 2.35:1 | 120″ | 2804 | 1193 | 2828 | 1217 | 3016*342*148 | 12 |
| | 135″ | 3155 | 1342 | 3179 | 1366 | 3367*342*148 | 12 |
| | 150″ | 3505 | 1491 | 3529 | 1515 | 3717*342*148 | 12 |
| | 180″ | 4206 | 1790 | 4230 | 1814 | 2300*240*264 | 12 |
| | 200″ | 4674 | 1989 | 4698 | 2013 | 2534*240*264 | 12 |

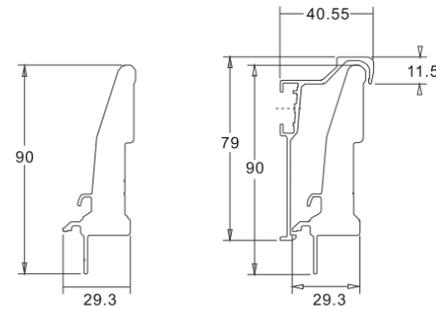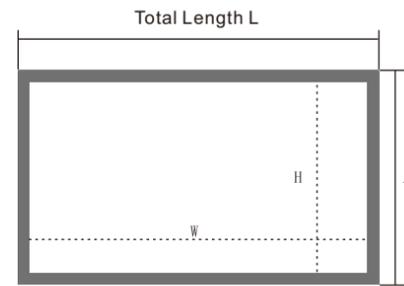Inner Frame    Inner Frame + External Frame

Total Length L

Screen Plan Sketch

Dimension of CZHK-100B Series

| Format | Size | View Area | | Frame Size | | Curved Length | Package Size |
|---|---|---|---|---|---|---|---|
| | | W (mm) *H (mm) | | Frame Length (L) mm | Frame Height mm (A) | (mm) | W (mm) *H (mm) *H |
| 16:9 | 80" | 1771 | 996 | 1973 | 1020 | 31 | 1983*342*148 |
| | 90" | 1992 | 1120 | 2013 | 1144 | 39 | 2204*342*148 |
| | 100" | 2213 | 1245 | 2233 | 1269 | 48 | 2425*342*148 |
| | 110" | 2435 | 1369 | 2455 | 1393 | 58 | 2647*342*148 |
| | 120" | 2656 | 1494 | 2675 | 1518 | 69 | 2868*342*148 |
| | 135" | 2988 | 1681 | 3005 | 1705 | 88 | 3200*342*148 |
| | 140" | 3099 | 1743 | 3115 | 1767 | 94 | 3311*342*148 |
| | 150" | 3320 | 1867 | 3335 | 1891 | 108 | 3532*342*148 |
| | 160" | 3542 | 1992 | 3555 | 2016 | 123 | 3680*342*148 |
| | 170" | 3763 | 2116 | 3774 | 2140 | 139 | 3754*342*148 |
| | 180" | 3984 | 2241 | 3992 | 2265 | 155 | 2596*240*264 |
| | 200" | 4427 | 2490 | 4430 | 2514 | 191 | 2847*240*264 |
| 4:3 | 100" | 2032 | 1524 | 2053 | 1548 | 41 | 2244*342*148 |
| | 120" | 2438 | 1828 | 2458 | 1852 | 59 | 2650*342*148 |
| | 150" | 3048 | 2286 | 3065 | 2310 | 91 | 3260*342*148 |
| | 180" | 3657 | 2743 | 3669 | 2767 | 131 | 3869*240*264 |
| | 200" | 4064 | 3048 | 4071 | 3072 | 161 | 3399*240*264 |
| 2.35:1 | 120″ | 2804 | 1193 | 2822 | 1217 | 77 | 3016*342*148 |
| | 135″ | 3155 | 1342 | 3171 | 1366 | 98 | 3367*342*148 |
| | 150″ | 3505 | 1491 | 3518 | 1515 | 120 | 3717*342*148 |
| | 180″ | 4206 | 1790 | 4212 | 1814 | 173 | 2300*240*264 |
| | 200″ | 4674 | 1989 | 4673 | 2013 | 213 | 2534*240*264 |

Ultra Thin Frame   Curved Shape   Large Size
1, Open a New Time of Thin Frame
According to the curvature of the human eye and carefully developed a new generation of high-definition video screen. Based on the precise focusing principle of single-point light source plane scattering, the advanced aluminum numerical control bending technology solves the problem of focus blur caused by the different projection distance between the projector lens and the screen, and brings more detail to the audience enjoying the widescreen.

Curved Frame Sketch

Total Length L
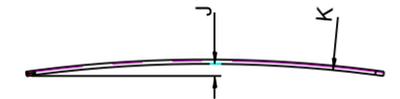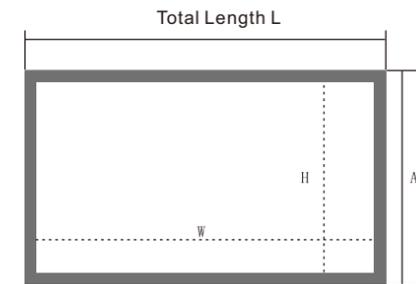
Screen Plan Sketch

## 100mm Fixed Frame Screen HK100C & Curved Screen CHK100C

XY screens Fixed Frame Screens are perfect for cinemas or any places where you need to fix the screen. It is enclosed in an attractive velvet wrapped lightweight aluminum alloy frame. HK100 Series Fixed Frame Screen provides excellent picture quality - Suitable for 4K&3D television/movies.

We offer various types of screen surfaces to suit your viewing environment. Different surfaces are available for different frames:

HK100C - WF1, GF1, WF1 Pro, WFS1, WF1 Pro Max4K HG, Black Crystal, Sound Max2, Sound Max4K, RGF1, MF1, MFS1.

Installation is easy - With its easy and adjustable fabric spring system, our Fixed Frame Screen is perfectly and permanently tensioned, ensuring that the screen is as flat and level as the mirror. Special designed slim bracket for an easy click on installation, also available as an in-wall display. Therefore, the users are able to set up in seconds.

Parameter
Format:16:9/4:3/16:10/2.35:1 customization
Housing Material:Aluminum alloy with velvet
Frame Shape:Flat/ Curved
Frame Width:100mm
3D:Yes
4K:multiple fabrics are optional
Size:80~200 inch
Arc Radius:0.75~2 times the radius



| Comparison of various ZHK100B Series models | | | | | | |
|---|---|---|---|---|---|---|
| Product Model | Fabric Model | HD/4K | Support 3D Mode | Sound-Transparent | Projection Mode | Ambient Light Rejecting |
| ZHK-Sound Max4K | Sound Max4K | 4K | Active | YES | Front | NO |
| ZHK-WF1Pro Max4k 1.8 | WF1Pro Max4k 1.8 | 4K | Active | NO | Front | NO |
| ZHK-WF1Pro Max4k | WF1Pro Max4k | 4K | Active | NO | Front | NO |
| ZHK -WF1PRO | WF1PRO | 4K | Active | No | Front | NO |
| ZHK -MF1 | MF1 | 4K | Active +Passive | NO | Front | NO |
| ZHK -Black Crystal | Black Crystal | 4K | Active | NO | Front | YES |
| ZHK-PET SG | PET SG | 4K | Active +Passive | NO | Front | YES |
| ZHK-GF1 | GF1 | 4K | Active | NO | Front | YES |
| ZHK –WF3D | WF3D | 4K | Active +Passive | NO | Front | NO |
| ZHK-Sound Max2 | Sound Max2 | HD | Active | YES | Front | NO |

Mounting Accessories



| Top Bracket | Bottom Bracket | Inter Corner Brace | External Corner Brace | Corner Brace | Connecting Bar | screwdriver | Hook | clamping piece | Springs | Accessories for curved frame screen only |

Dimension of HK-100B/HK-100C Series

| Format | Size | View Area | | Frame Size | | Package Size |
|---|---|---|---|---|---|---|
| | | W(mm)*H(mm) | | Frame Length(L)mm | Frame Height mm(A) | W(mm)*H(mm)*H |
| 16:9 | 160" | 3542 | 1992 | 3742 | 2192 | 3926*342*148 |
| | 170" | 3763 | 2116 | 3963 | 2316 | 2500*240*264 |
| | 180" | 3984 | 2241 | 4184 | 2441 | 2625*240*264 |
| | 200" | 4427 | 2490 | 4627 | 2690 | 2874*240*264 |
| | 220" | 4870 | 2739 | 5070 | 2939 | 3123*240*264 |
| | 250" | 5534 | 3113 | 5734 | 3313 | 3497*240*264 |
| | 300" | 6641 | 3735 | 6841 | 3935 | 4119*240*264 |
| 4:3 | 180" | 3657 | 2743 | 3857 | 2943 | 2940*240*264 |
| | 200" | 4064 | 3048 | 4264 | 3248 | 3250*240*264 |
| | 250" | 5080 | 3810 | 5280 | 4010 | 4210*240*264 |
| | 300" | 6096 | 4572 | 6296 | 4772 | 4870*240*264 |
| 2.35:1 | 150" | 3505 | 1491 | 3705 | 1691 | 3889*342*148 |
| | 180" | 4206 | 1790 | 4406 | 1990 | 2386*240*264 |
| | 200" | 4674 | 1989 | 4874 | 2189 | 2620*240*264 |
| | 250" | 5842 | 2486 | 6042 | 2686 | 3204*240*264 |
| | 300" | 7011 | 2983 | 7211 | 3183 | 3788*240*264 |

Total Length L
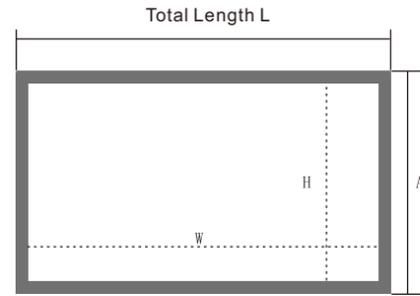
Screen Plan Sketch
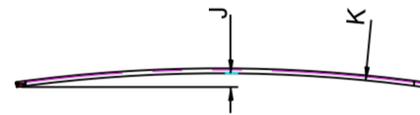
Curved Frame Sketch

Dimension of CHK-100B/CHK-100C Series

| Format | Size | View Area | | Frame Size | | Curved Length | Radius | Curved Height |
|---|---|---|---|---|---|---|---|---|
| | | W(mm)*H(mm) | | Frame Length(L)mm | Frame Height mm(A) | (mm) | m | (mm) |
| 16:9 | 160" | 3542 | 1992 | 3737 | 2192 | 3742 | 12.9 | 135 |
| | 170" | 3763 | 2116 | 3956 | 2316 | 3963 | 12.9 | 151 |
| | 180" | 3984 | 2241 | 4175 | 2441 | 4184 | 12.9 | 169 |
| | 200" | 4427 | 2490 | 4612 | 2690 | 4627 | 12.9 | 206 |
| | 220" | 4870 | 2739 | 5048 | 2939 | 5070 | 12.9 | 206 |
| | 250" | 5534 | 3113 | 5699 | 3313 | 5734 | 12.9 | 316 |
| | 300" | 6641 | 3735 | 6776 | 3935 | 6841 | 12.9 | 449 |
| 4:3 | 180" | 3657 | 2743 | 3841 | 2943 | 3857 | 12.9 | 143 |
| | 200" | 4064 | 3048 | 4254 | 3248 | 4264 | 12.9 | 175 |
| | 250" | 5080 | 3810 | 5255 | 4010 | 5280 | 12.9 | 268 |
| | 300" | 6096 | 4572 | 6247 | 4772 | 6296 | 12.9 | 381 |
| 2.35:1 | 150" | 3505 | 1491 | 3700 | 1691 | 3705 | 12.9 | 132 |
| | 180" | 4206 | 1790 | 4394 | 1990 | 4406 | 12.9 | 187 |
| | 200" | 4674 | 1989 | 4856 | 2189 | 4874 | 12.9 | 229 |
| | 250" | 5842 | 2486 | 6000 | 2686 | 6042 | 12.9 | 351 |
| | 300" | 7011 | 2983 | 7133 | 3183 | 7211 | 12.9 | 499 |

28mm

100mm

100mm

52mm 52mm

100C 100B

Frame Sketch Diagram

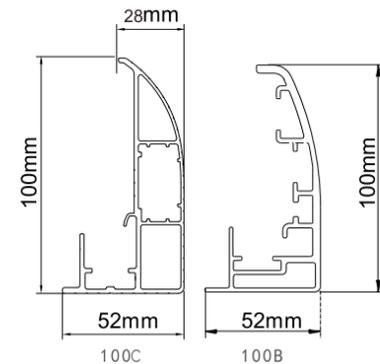| Comparison of various HK100B Series models | | | | | | |
|---|---|---|---|---|---|---|
| ProductModel | Fabric Model | HD/4K | Support3D Mode | Sound-Transparent | ProjectionMode | AmbientLightRejecting |
| HK/CHK100B-FH201 | FH201 | HD | Active+Passive | NO | Front | NO |
| HK/CHK100B-RH201 | RH201 | HD | Active | NO | Rear | NO |

| Comparison of various HK100C Series models | | | | | | |
|---|---|---|---|---|---|---|
| Product Model | Fabric Model | HD/4K | Support 3D Mode | Sound-Transparent | ProjectionMode | Ambient Light Rejecting |
| HKC-SoundMax4K | SoundMax4K | 4K | Active | Yes | Front | NO |
| HKC -WFS1 | WFS1 | HD | Active+Passive | Yes | Front | NO |
| HKC -WF1Pro Max4k | WF1Pro Max4k | 4K | Active | NO | Front | NO |
| HKC -WF1PRO | WF1PRO | 4K | Active | No | Front | NO |
| HKC -MF1 | MF1 | 4K | Active+Passive | NO | Front | NO |
| HKC -BlackCrystal | Black Crystal | 4K | Active | NO | Front | YES |
| HKC –GF1 | GF1 | 4K | Active | NO | Front | YES |
| HKC-WF3D | WF3D | HD | Active +Passive | NO | Front | NO |

## 80mm Fixed Frame Screen HK80B & Curved Screen CHK80B



XY screens Fixed Frame Screens are perfect for cinemas or any places where you need to fix the screen. It is enclosed in an attractive velvet wrapped lightweight aluminum alloy frame. HK80C Series Fixed Frame Screen provides excellent picture quality - Suitable for 4K&3D television/movies.

We offer various types of screen surfaces to suit your viewing environment. Different surfaces are available for different frames:

CHK/HK80B - WF1, GF1, Sound Max2, WFS1, WF3D, RGF1, MF1

Installation is easy - With its easy and adjustable fabric spring system, our Fixed Frame Screen is perfectly and permanently tensioned, ensuring that the screen is as flat and level as the mirror. Special designed slim bracket for an easy click on installation, also available as an in-wall display. Therefore, the users are able to set up in seconds.

Parameter
Format:16:9/4:3/16:10/2.35:1 customization
Housing Material:Aluminum alloy with velvet
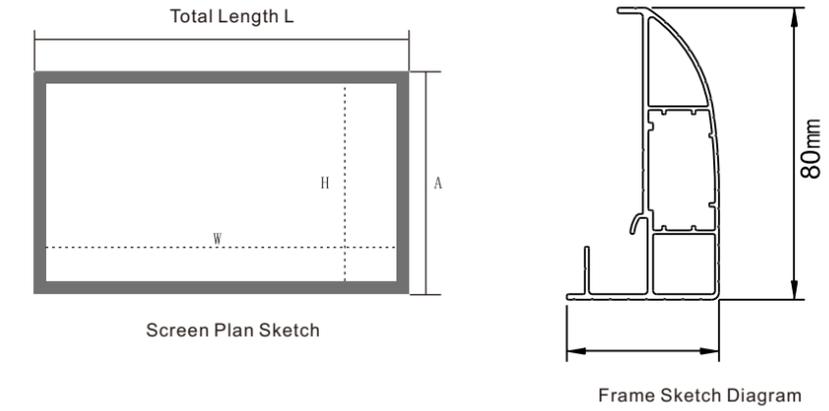Frame Shape:Flat/ Curved
Frame Width:80mm
3D:Yes
4K:multiple fabrics are optional
Size:80~200 inch
Arc Radius:0.75~2 times the radius

### Mounting Accessories



| Top Bracket | Bottom Bracket | Inter Corner Brace | Connecting Bar | screwdriver | Hook | Springs | Accessories for curved frame screen only |



Total Length L

Screen Plan Sketch

80mm

Frame Sketch Diagram

Dimension of HK-80B Series

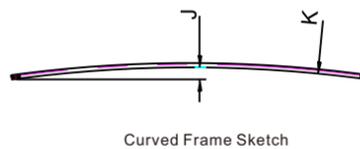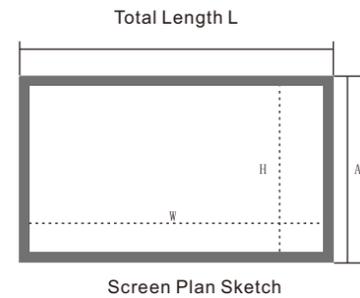| Format | Size | View Area | | Frame Size | | Package Size | Frame Thickness |
|---|---|---|---|---|---|---|---|
| | | W(mm)*H(mm) | | Frame Length(L) mm | Frame Height mm(A) | W(mm)*H(mm)*H | mm |
| 16:9 | 80" | 1771 | 996 | 1931 | 1156 | 2115*300*126 | 80 |
| | 90" | 1992 | 1120 | 2152 | 1280 | 2336*300*126 | 80 |
| | 100" | 2213 | 1245 | 2373 | 1405 | 2557*300*126 | 80 |
| | 110" | 2435 | 1369 | 2595 | 1529 | 2779*300*126 | 80 |
| | 120" | 2656 | 1494 | 2816 | 1654 | 3000*300*126 | 80 |
| | 130" | 2877 | 1618 | 3037 | 1778 | 3221*300*126 | 80 |
| | 135" | 2988 | 1681 | 3148 | 1841 | 3332*300*126 | 80 |
| | 140" | 3099 | 1743 | 3259 | 1903 | 3443*300*126 | 80 |
| | 150" | 3320 | 1867 | 3480 | 2027 | 3664*300*126 | 80 |
| | 160" | 3542 | 1992 | 3702 | 2152 | 3886*300*126 | 80 |
| | 170" | 3763 | 2116 | 3923 | 2276 | 4107*300*126 | 80 |
| | 180" | 3984 | 2241 | 4144 | 2401 | 2585*211*223 | 80 |
| | 200" | 4427 | 2490 | 4587 | 2650 | 2834*211*223 | 80 |
| 4:3 | 100" | 2032 | 1524 | 2192 | 1684 | 2376*300*126 | 80 |
| | 120" | 2438 | 1828 | 2598 | 1988 | 2782*300*126 | 80 |
| | 150" | 3048 | 2286 | 3208 | 2446 | 3392*300*126 | 80 |
| | 180" | 3657 | 2743 | 3817 | 2903 | 4001*300*126 | 80 |
| | 200" | 4064 | 3048 | 4224 | 3208 | 3392*211*223 | 80 |
| 2.35:1 | 120° | 2804 | 1193 | 2964 | 1353 | 3148*300*126 | 80 |
| | 135° | 3155 | 1342 | 3315 | 1502 | 3499*300*126 | 80 |
| | 150° | 3505 | 1491 | 3665 | 1651 | 3849*300*126 | 80 |
| | 180° | 4206 | 1790 | 4366 | 1950 | 2366*211*223 | 80 |
| | 200° | 4674 | 1989 | 4834 | 2149 | 2600*211*223 | 80 |

Advantages of XY curve frame screen

First, the curved appearance looks more beautiful, in line with the modern aesthetics.

Second, the curved structure can obtain larger display area in a limited space. For example, a place with 3 meters in width can only holds a 128 inch flat

frame screen, but it can holds a 130 inch curved frame screen.

Third, viewing angle is wider. Curved design brings the same visual enjoyment whether it is the edge or center of the screen.

Fourth, it brings more realistic stunning scene feeling. Its surface facing the audience is curved, as if people are surrounded by the projected image like

curved IMAX screen. 3D display is immersive.

Fifth, human visual experience is more comfortable. Curved screen meets the spherical characteristics of human eye, enabling the distance from the eye

to every point on the screen is the same, eliminating visual distortion when looking at the edge of the screen, to create the most natural and comfortable

feeling.
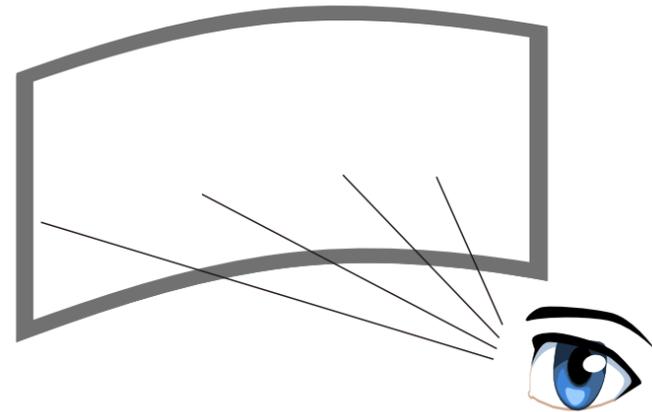
## Dimension of CHK-80B Series

| Format | Size | View Area | | Frame Size | | Curved Length | Radius | Curved Height | Package Size |
|---|---|---|---|---|---|---|---|---|---|
| | | W(mm)*H(mm) | | Frame Length(L) mm | Frame Height mm(A) | (mm) | m | (mm) | W(mm)*H(mm)*H |
| 16:9 | 80" | 1771 | 996 | 1931 | 1156 | 1931 | 12.9 | 36 | 2130*300*126 |
| | 90" | 1992 | 1120 | 2152 | 1280 | 2152 | 12.9 | 45 | 2390*300*126 |
| | 100" | 2213 | 1245 | 2372 | 1405 | 2373 | 12.9 | 54 | 2575*300*126 |
| | 110" | 2435 | 1369 | 2593 | 1529 | 2595 | 12.9 | 65 | 2800*300*126 |
| | 120" | 2656 | 1494 | 2813 | 1654 | 2816 | 12.9 | 76 | 3020*300*126 |
| | 135" | 2988 | 1681 | 3144 | 1841 | 3148 | 12.9 | 95 | 3310*300*126 |
| | 150" | 3320 | 1867 | 3473 | 2027 | 3480 | 12.9 | 117 | 3680*300*126 |
| | 160" | 3542 | 1992 | 3693 | 2152 | 3702 | 12.9 | 132 | 3680*300*126 |
| | 170" | 3763 | 2116 | 3912 | 2276 | 3923 | 12.9 | 148 | 2640*211*223 |
| | 180" | 3984 | 2241 | 4131 | 2401 | 4144 | 12.9 | 165 | 2640*211*223 |
| | 200" | 4427 | 2490 | 4568 | 2650 | 4587 | 12.9 | 202 | 2890*211*223 |
| 4:3 | 120" | 2438 | 1828 | 2596 | 1988 | 2598 | 12.9 | 65 | 2800*300*126 |
| | 150" | 3048 | 2286 | 3203 | 2446 | 3208 | 12.9 | 99 | 3410*300*126 |
| | 160" | 3251 | 2438 | 3405 | 2598 | 3411 | 12.9 | 112 | 3605*300*126 |
| | 170" | 3454 | 2590 | 3606 | 2750 | 3614 | 12.9 | 126 | 2950*211*223 |
| | 180" | 3657 | 2743 | 3807 | 2903 | 3817 | 12.9 | 140 | 2940*211*223 |
| | 200" | 4064 | 3048 | 4210 | 3208 | 4224 | 12.9 | 172 | 3250*211*223 |
| 2.35:1 | 120" | 2804 | 1193 | 2961 | 1353 | 2964 | 12.9 | 85 | 3160*300*126 |
| | 135" | 3155 | 1342 | 3310 | 1502 | 3315 | 12.9 | 106 | 3520*300*126 |
| | 150" | 3505 | 1491 | 3657 | 1651 | 3665 | 12.9 | 129 | 3870*300*126 |
| | 180" | 3984 | 2241 | 4350 | 2401 | 4366 | 12.9 | 183 | 2305*211*223 |
| | 200" | 4674 | 1989 | 4811 | 2149 | 1834 | 12.9 | 220 | 2535*211*223 |

Total Length L

Screen Plan Sketch

Curved Frame Sketch



| Comparison of various HK80B Series models | | | | | | |
|---|---|---|---|---|---|---|
| Product Model | Fabric Model | HD/4K | Support 3D Mode | Sound-Transparent | Projection Mode | Ambient Light Rejecting |
| HK-Sound Max2 | Sound Max2 | 4K | Active | Yes | Front | NO |
| HK -WFS1 | WFS1 | HD | Active +Passive | YES | Front | NO |
| HK –GF1 | Gf1 | HD | Active | NO | Front | YES |
| HK –WF3D | WF3D | 4K | Active +Passive | No | Front | NO |
| HK -MF1 | MF1 | 4K | Active +Passive | NO | Front | NO |
| HK -Black Crystal | Black Crystal | 4K | Active | NO | Front | YES |
| HK -RGF1 | RGF1 | 4K | Active | NO | Rear | NO |

## 80mm Fixed Frame Screen HK80C & Curved Screen CHK80C

XY screens Fixed Frame Screens are perfect for cinemas or any places where you need to fix the screen. It is enclosed in an attractive velvet wrapped lightweight aluminum alloy frame. HK80C Series Fixed Frame Screen provides excellent picture quality - Suitable for 4K&3D television/movies.

We offer various types of screen surfaces to suit your viewing environment. Different surfaces are available for different frames:

HK80C - WF1 Pro, WF1 Pro Max4K HG, Black Crystal, Sound Max4K, Sound Max5, Sound Max5 HG, MFS1.

Installation is easy - With its easy and adjustable fabric spring system, our Fixed Frame Screen is perfectly and permanently tensioned, ensuring that the screen is as flat and level as the mirror. Special designed slim bracket for an easy click on installation, also available as an in-wall display. Therefore, the users are able to set up in seconds.

Parameter
Format:16:9/4:3/16:10/2.35:1 customization
Housing Material:Aluminum alloy with velvet
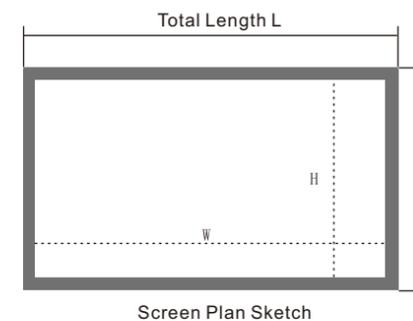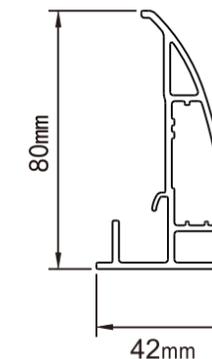Frame Shape:Flat/ Curved
Frame Width:80mm
3D:Yes
4K:multiple fabrics are optional
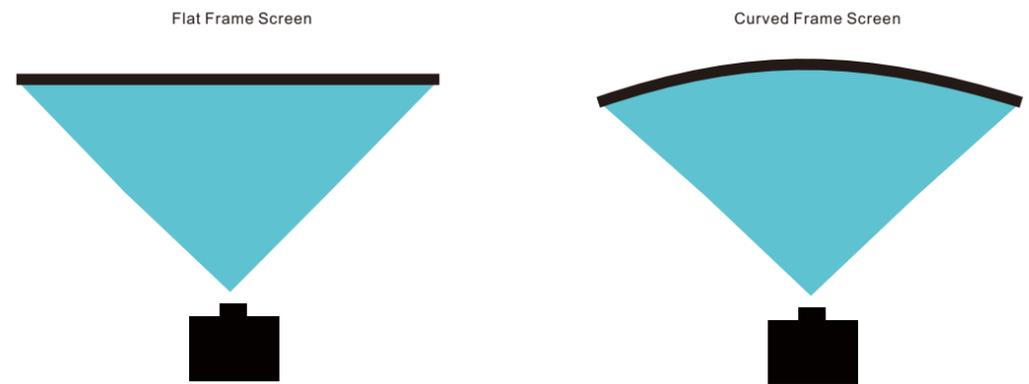Size:80~200 inch
Arc Radius:0.75~2 times the radius

Mounting Accessories

| Top Bracket | Bottom Bracket | Inter Corner Brace | Connecting Bar | screwdriver | Hook | Springs | Accessories for curved frame screen only |

Total Length L

Screen Plan Sketch

80mm

42mm

Frame Sketch Diagram

Dimension of HK-80C Series

| Format | Size | View Area | | Frame Size | | Package Size | Frame Thickness |
|--------|------|-----------|--------------|------------|-------------|--------------|-----------------|
| | | W(mm)*H(mm) | | Frame Length(L) mm | Frame Height mm(A) | W(mm)*H(mm)*H | mm |
| 16:9 | 80" | 1771 | 996 | 1931 | 1156 | 2115*300*126 | 80 |
| | 90" | 1992 | 1120 | 2152 | 1280 | 2336*300*126 | 80 |
| | 100" | 2213 | 1245 | 2373 | 1405 | 2557*300*126 | 80 |
| | 110" | 2435 | 1369 | 2595 | 1529 | 2779*300*126 | 80 |
| | 120" | 2656 | 1494 | 2816 | 1654 | 3000*300*126 | 80 |
| | 130" | 2877 | 1618 | 3037 | 1778 | 3221*300*126 | 80 |
| | 135" | 2988 | 1681 | 3148 | 1841 | 3332*300*126 | 80 |
| | 140" | 3099 | 1743 | 3259 | 1903 | 3443*300*126 | 80 |
| | 150" | 3320 | 1867 | 3480 | 2027 | 3664*300*126 | 80 |
| | 160" | 3542 | 1992 | 3702 | 2152 | 3886*300*126 | 80 |
| | 170" | 3763 | 2116 | 3923 | 2276 | 4107*300*126 | 80 |
| | 180" | 3984 | 2241 | 4144 | 2401 | 2585*211*223 | 80 |
| | 200" | 4427 | 2490 | 4587 | 2650 | 2834*211*223 | 80 |
| 4:3 | 100" | 2032 | 1524 | 2192 | 1684 | 2376*300*126 | 80 |
| | 120" | 2438 | 1828 | 2598 | 1988 | 2782*300*126 | 80 |
| | 150" | 3048 | 2286 | 3208 | 2446 | 3392*300*126 | 80 |
| | 180" | 3657 | 2743 | 3817 | 2903 | 4001*300*126 | 80 |
| | 200" | 4064 | 3048 | 4224 | 3208 | 3392*211*223 | 80 |
| 2.35:1 | 120° | 2804 | 1193 | 2964 | 1353 | 3148*300*126 | 80 |
| | 135° | 3155 | 1342 | 3315 | 1502 | 3499*300*126 | 80 |
| | 150° | 3505 | 1491 | 3665 | 1651 | 3849*300*126 | 80 |
| | 180° | 4206 | 1790 | 4366 | 1950 | 2366*211*223 | 80 |
| | 200° | 4674 | 1989 | 4834 | 2149 | 2600*211*223 | 80 |

Flat Frame Screen

Curved Frame Screen

## Dimension of CHK-80C Series

| Format | Size | View Area | | Frame Size | | Curved Length | Radius | Curved Height | Package Size |
|---|---|---|---|---|---|---|---|---|---|
| | | W (mm) *H (mm) | | Frame Length(L) mm | Frame Height mm(A) | (mm) | m | (mm) | W (mm) *H (mm) *H |
| 16:9 | 80" | 1771 | 996 | 1931 | 1156 | 1931 | 12.9 | 36 | 2130*300*126 |
| | 90" | 1992 | 1120 | 2152 | 1280 | 2152 | 12.9 | 45 | 2390*300*126 |
| | 100" | 2213 | 1245 | 2372 | 1405 | 2373 | 12.9 | 54 | 2575*300*126 |
| | 110" | 2435 | 1369 | 2593 | 1529 | 2595 | 12.9 | 65 | 2800*300*126 |
| | 120" | 2656 | 1494 | 2813 | 1654 | 2816 | 12.9 | 76 | 3020*300*126 |
| | 135" | 2988 | 1681 | 3144 | 1841 | 3148 | 12.9 | 95 | 3310*300*126 |
| | 150" | 3320 | 1867 | 3473 | 2027 | 3480 | 12.9 | 117 | 3680*300*126 |
| | 160" | 3542 | 1992 | 3693 | 2152 | 3702 | 12.9 | 132 | 3680*300*126 |
| | 170" | 3763 | 2116 | 3912 | 2276 | 3923 | 12.9 | 148 | 2640*211*223 |
| | 180" | 3984 | 2241 | 4131 | 2401 | 4144 | 12.9 | 165 | 2640*211*223 |
| | 200" | 4427 | 2490 | 4568 | 2650 | 4587 | 12.9 | 202 | 2890*211*223 |
| 4:3 | 120" | 2438 | 1828 | 2596 | 1988 | 2598 | 12.9 | 65 | 2800*300*126 |
| | 150" | 3048 | 2286 | 3203 | 2446 | 3208 | 12.9 | 99 | 3410*300*126 |
| | 160" | 3251 | 2438 | 3405 | 2598 | 3411 | 12.9 | 112 | 3605*300*126 |
| | 170" | 3454 | 2590 | 3606 | 2750 | 3614 | 12.9 | 126 | 2950*211*223 |
| | 180" | 3657 | 2743 | 3807 | 2903 | 3817 | 12.9 | 140 | 2940*211*223 |
| | 200" | 4064 | 3048 | 4210 | 3208 | 4224 | 12.9 | 172 | 3250*211*223 |
| 2.35:1 | 120" | 2804 | 1193 | 2961 | 1353 | 2964 | 12.9 | 85 | 3160*300*126 |
| | 135" | 3155 | 1342 | 3310 | 1502 | 3315 | 12.9 | 106 | 3520*300*126 |
| | 150" | 3505 | 1491 | 3657 | 1651 | 3665 | 12.9 | 129 | 3870*300*126 |
| | 180" | 3984 | 2241 | 4350 | 2401 | 4366 | 12.9 | 183 | 2305*211*223 |
| | 200" | 4674 | 1989 | 4811 | 2149 | 1834 | 12.9 | 220 | 2535*211*223 |

Total Length L

Screen Plan Sketch

Curved Frame Sketch

### Comparison of various HK80C Series models

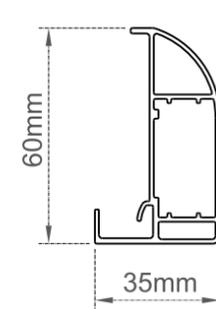| Product Model | Fabric Model | HD/4K | Support 3D Mode | Sound-Transparent | Projection Mode | Ambient Light Rejecting |
|---|---|---|---|---|---|---|
| HK-WF1PRO | WF1PRO | 4K | Active | NO | Front | NO |
| HK-Sound Max2 | Sound Max2 | 4K | Active | YES | Front | NO |
| HK -WFS1 | WFS1 | HD | Active +Passive | YES | Front | NO |
| HK –GF1 | GF1 | HD | Active | NO | Front | NO |
| HK –WF3D | WF3D | 4K | Active +Passive | NO | Front | NO |
| HK -MF1 | MF1 | 4K | Active +Passive | NO | Front | NO |
| HK -Black Crystal | Black Crystal | 4K | Active | NO | Front | YES |
| HK -RGF1 | RGF1 | 4K | Active | NO | Rear | NO |

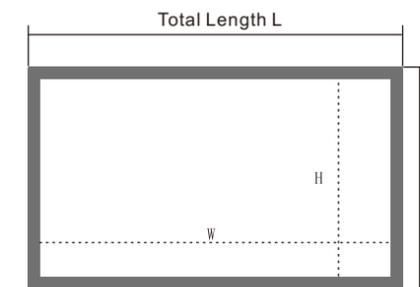# 60mm Fixed Frame Screen YB60

Product Features:
Yb60 is mainly applied in mini cinema and KTV. It can be projected high-definition image. With elegant appearance, it is anti-dust, anti-aging and easy to install.

Product Parameters
Format:16:9 / 4:3 / customized
Frame Material: Aluminum Alloy (with Velvet)
Frame form:Flat
Frame width:60mm
HD:Yes
3D:Passive 3D
Fabric:YWF1 / YMF1
Size :70-150 inch / customize



| Yb60 Series | | |
|---|---|---|
| Spec./ fabric | black and white soft screen | 3D silver soft screen |
| Model: | YB-YWF1 | YB-YMF1 |
| Features: | 1.1 Gain high definition | Suitable for Passive / Active 3D |



Frame Sketch Diagram

Screen Plan Sketch

Total Length L

60mm

35mm

| Format | Size | Viewing Area | | Total Length L(mm) | Total Height A(mm) |
|---|---|---|---|---|---|
| | | W(mm) | *H(mm) | | |
| 16:9 | 70" | 1549 | 871 | 1669 | 991 |
| | 80" | 1771 | 996 | 1891 | 1116 |
| | 100" | 2213 | 1245 | 2333 | 1365 |
| | 120" | 2656 | 1494 | 2776 | 1614 |
| 4:3 | 80" | 1625 | 1219 | 1745 | 1339 |
| | 100" | 2030 | 1520 | 2150 | 1640 |
| | 120" | 2440 | 1830 | 2560 | 1950 |
| Other sizes can be customized | | | | | |

## Application Case

# Installation Method

A: How to mount a flat screen and curved screen on the wall

A:    B :

Concrete/brick wall installation mode    Wooden walls installation mode
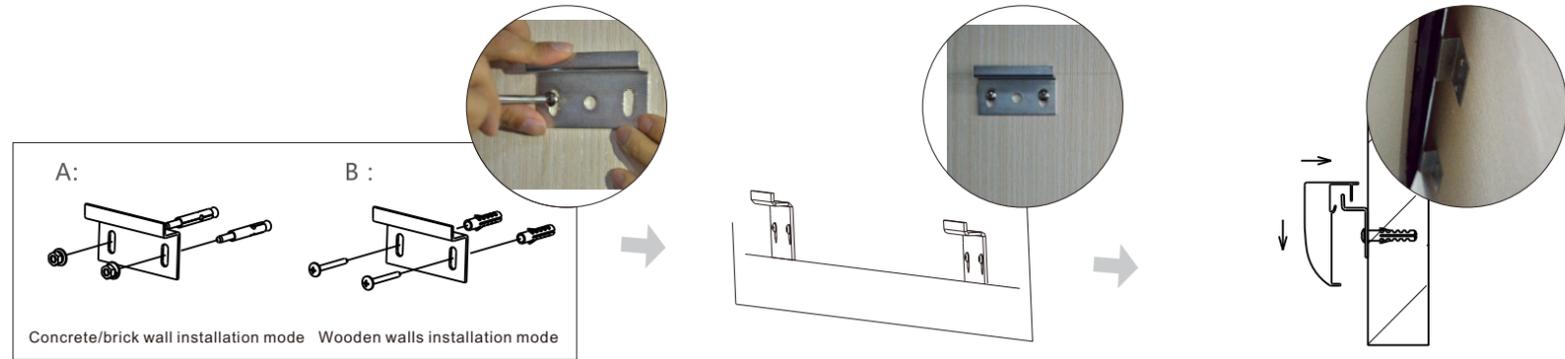
1.According to the quantity of the mounting brackets and appropriate distance, you should install the mounting brackets at suitable place on the wall with screws .

2.Hang the screen on the wall.

3.Finished.

2.If necessary, install the bottom mounting brackets (If you need to fix the screen or find the bottom of the screen does not fit closely with the wall, please follow the below steps.)s at suitable place on the wall with screws .

100B安装位
80B,80C安装位
60B安装位

背面示意图
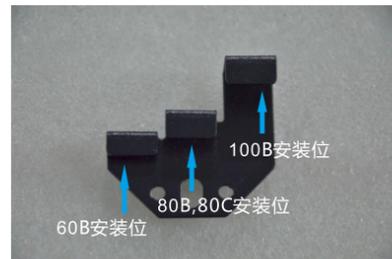
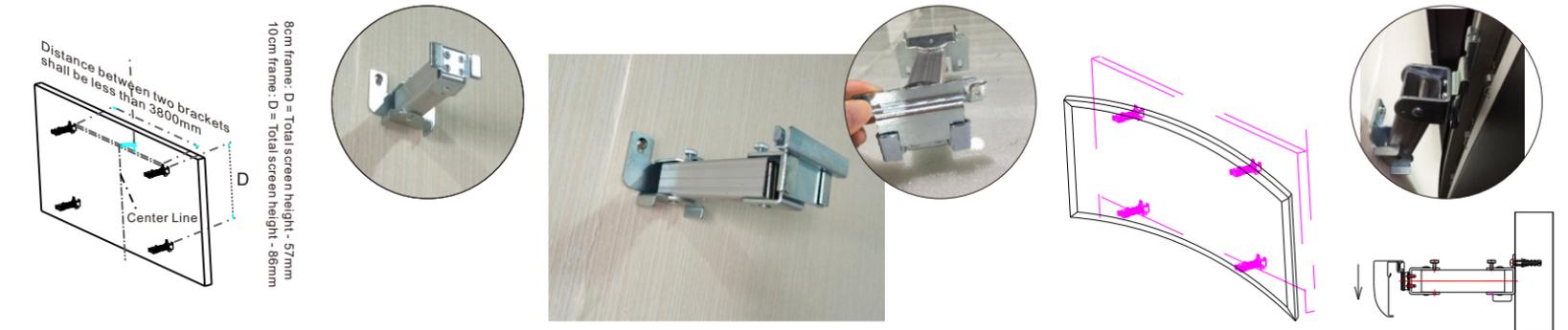1.Take out the bottom mounting brackets(Please note the mounting position of the product).

2.Gently lift the bottom of the screen, use the bottom mounting bracket to hook the groove of the screen.

3.Tighten the screw and installation completed .

B:Install the curved frame screen on a flat wall or curved wall.

Distance between two brackets shall be less than 3800mm

8cm frame: D = Total screen height- 57mm
10cm frame: D = Total screen height - 86mm

Center Line

D

1.Install the mounting brackets on the wall.8cm frame: The top of the mounting bracket is 9mm higher than the top of the frame10cm frame: The top of mounting bracket is 6mm lower than the top of the frame

2.Insert the connected plate into the upper mounting bracket.

3.Mount the screen onto the brackets.
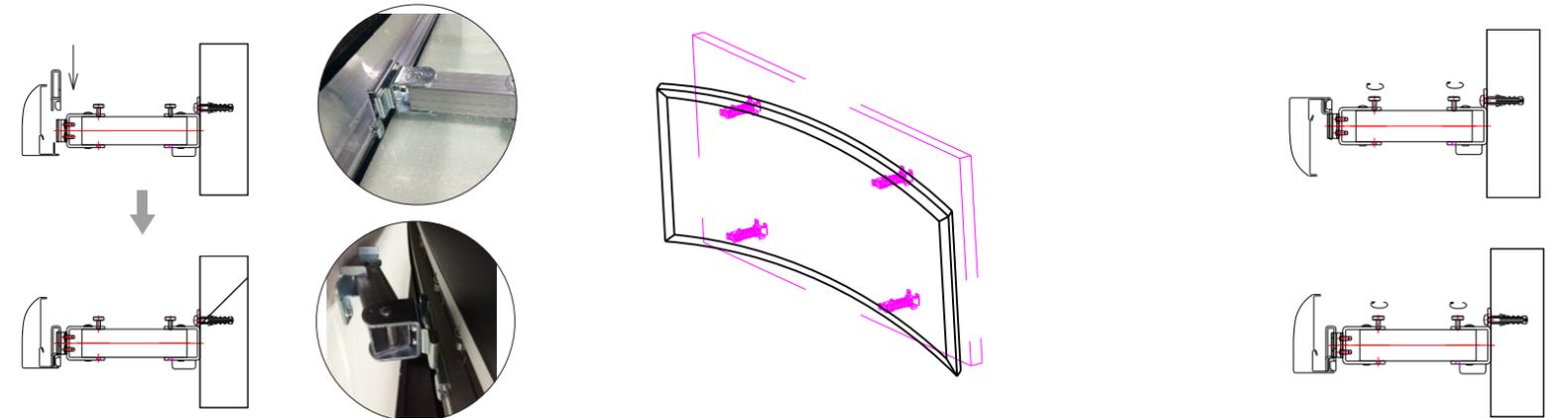
4.Adjust the rotation angle of frame and mounting brackets, and insert the bottom connected plates into the mounting brackets.

5.Push the frame to rotate the mounting brackets, adjust the screen to the suitable position.

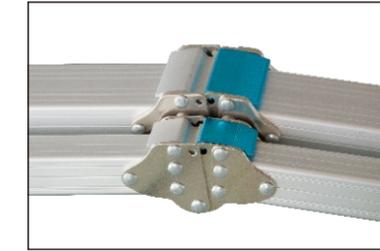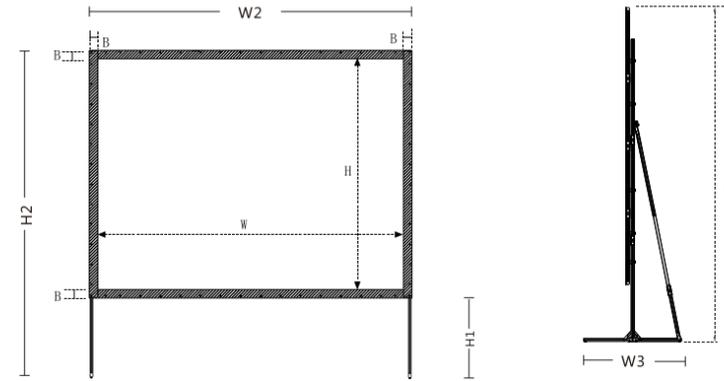6.Tighten the screws to fix the screen. Installation completed.

# Fast Fold Screen FF

Product Features:
1.Constructed of sturdy aluminum tube, strong but lightweight. With easy release latches and turn knobs built in, no tools are needed for assembly.
2.Simple, quick set up and tear down. Includes a portable rugged carrying case(flight case) with wheels.
3.The perfect solution for rental and commercial use, such as mobile presentations, performances and outdoor events.

Product Parameters:
Format:16:9 / 16:10 / 4:3 / customized
Frame Material:Aluminum Alloy
HD:Yes
Packing:Flight Case
Fabric: Front, Rear, 3D Silver and etc.
Size:80 - 400 inch / customizedtations, performances and outdoor events.

Easy to use
Button system, quick installation; multi-point positioning, smooth screen surface.

High-quality buckle
high-end buckle design, flexible and stable

Exquisite
Sturdy aluminum alloy tube.

Convenience
Screen and frame can be packed in the flight case, easy to carry.

Outside buckle Style

Inside Buckle Style

Dimension of FF Series

| Format | Size | Tube Size | View Area | | Black Borden | terrain clearance | | Projection Mode | Overall width | Overall height | | Tube Size | Overall height | Foot Height | Foot Quantity | N.W | G.W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WxH | W (mm) | H (mm) | B (mm) | H1min (mm) | H1max (mm) | | W2 | H2min (mm) | H2max (mm) | WXH (mm) | W3 | H3 | (unit) | Including one PCS Fabric (KG) | Including one PCS Fabric (KG) |
| 4:3 | 100" | 32x32 | 2033 | 1524 | 75 | 221 | 1272 | Front/Rear | 2183 | 2262 | 2871 | 32x32 | 1044 | 2262 | 2 | 23 | 26 |
| | 120" | 32x32 | 2438 | 1830 | 75 | 293 | 1044 | Front/Rear | 2588 | 2262 | 2949 | 32x32 | 1044 | 2262 | 2 | 26.5 | 29.5 |
| | 150" | 32x32 | 3053 | 2287 | 75 | 290 | 1641 | Front/Rear | 3203 | 3162 | 4003 | 32x32 | 1044 | 3162 | 2 | 34.5 | 38.5 |
| | 180" | 32x32 | 3657 | 2746 | 75 | 285 | 1336 | Front/Rear | 3807 | 3162 | 4157 | 32x32 | 1044 | 3162 | 2 | 38 | 42 |
| | 200" | 32x32 | 4065 | 3046 | 75 | 285 | 1186 | Front/Rear | 4215 | 3162 | 4307 | 32x32 | 1044 | 3162 | 2 | 38.5 | 43.5 |
| | 200" | 32x64 | 4065 | 3046 | 100 | 285 | 1186 | Front/Rear | 4265 | 3162 | 4332 | 32x64 | 1044 | 3162 | 2 | 54 | 60 |
| | 250" | 32x64 | 5080 | 3810 | 100 | 274 | 1028 | Front/Rear | 5280 | 4062 | 4938 | 32x64 | 1275 | 4062 | 2 | 68 | 75 |
| | 300" | 32x64 | 6096 | 4572 | 100 | 248 | 2347 | Front/Rear | 6296 | 6012 | 7019 | 32x64 | 1575 | 6012 | 2 | 87 | 95 |
| | 350" | 32x64 | 7112 | 5334 | 100 | 367 | 2716 | Front | 7312 | 7012 | 8150 | 32x64 | 1575 | 7012 | 2 | 110 | 118 |
| | 400" | 32x64 | 8128 | 6096 | 100 | 361 | 2061 | Front | 8328 | 7012 | 8257 | 32x64 | 1575 | 7012 | 2 | 120 | 130 |
| 16:9 | 100" | 32x32 | 2213 | 1246 | 75 | 210 | 1411 | Front/Rear | 2363 | 2262 | 2732 | 32x32 | 1044 | 2262 | 2 | 23 | 26 |
| | 120" | 32x32 | 2657 | 1492 | 75 | 237 | 1288 | Front/Rear | 2807 | 2262 | 2855 | 32x32 | 1044 | 2262 | 2 | 26.5 | 29.5 |
| | 150" | 32x32 | 3323 | 1866 | 75 | 350 | 1851 | Front/Rear | 3473 | 3162 | 3792 | 32x32 | 1044 | 3162 | 2 | 34.5 | 38.5 |
| | 180" | 32x32 | 3985 | 2240 | 75 | 388 | 1739 | Front/Rear | 4135 | 3162 | 4054 | 32x32 | 1044 | 3162 | 2 | 38 | 42 |
| | 200" | 32x32 | 4427 | 2490 | 75 | 263 | 1614 | Front | 4577 | 3162 | 4179 | 32x32 | 1044 | 3162 | 2 | 38.5 | 43.5 |
| | 200" | 32x64 | 4427 | 2490 | 100 | 339 | 1689 | Front/Rear | 4627 | 3162 | 4279 | 32x64 | 1275 | 3162 | 2 | 54 | 60 |
| | 250" | 32x64 | 5534 | 3113 | 100 | 328 | 1678 | Front/Rear | 5734 | 4062 | 4891 | 32x64 | 1275 | 4062 | 2 | 68 | 75 |
| | 300" | 32x64 | 6641 | 3735 | 100 | 294 | 1944 | Front | 6841 | 4512 | 5779 | 32x64 | 1575 | 4512 | 2 | 87 | 95 |
| | 350" | 32x64 | 7748 | 4358 | 100 | 305 | 1850 | Front | 7948 | 4512 | 6308 | 32x64 | 1575 | 4512 | 3 | 110 | 118 |
| | 400" | 32x64 | 8855 | 4981 | 100 | 300 | 1875 | Front | 9055 | 6012 | 6956 | 32x64 | 1575 | 6012 | 3 | 120 | 130 |
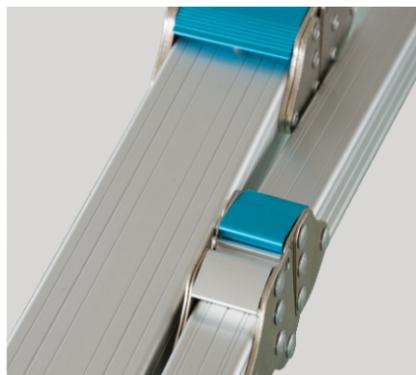
## Motorized Floor Rising Screen EDL-PU



Motorized Floor Rising Screen EDL-PU
Product Features:
EDL-PU provides an extra level of ease of use and portability that cannot be had with traditional wall or ceiling mounted projector screens. Electrically raised from a potable lightweight case, the supporting bar and screen fabric could be retracted back into its fashionable Mirage Black case when the screen is not used.
1. Remote controller with 12V trigger, allow screen stop at any desired level. Super mute tubular motor brings quiet and smooth operation. Tab tension system ensures flat screen.
2. Anti-pinch Design - When the screen is retracted, if someone touches it, the screen will stop automatically .
3. The perfect companion for business presentations, trade shows, hospitality, a simple home theater or any portable application.

Product Features:
Format:    16:9 / 4:3
Housing Material:   Aluminum alloy
Fabric:    Fiberglass screen(non-tensione0d) / soft screen(tab tension)
Control Mode:    Remote Control
Size:    100-180 inchimple home theater or any portable application.
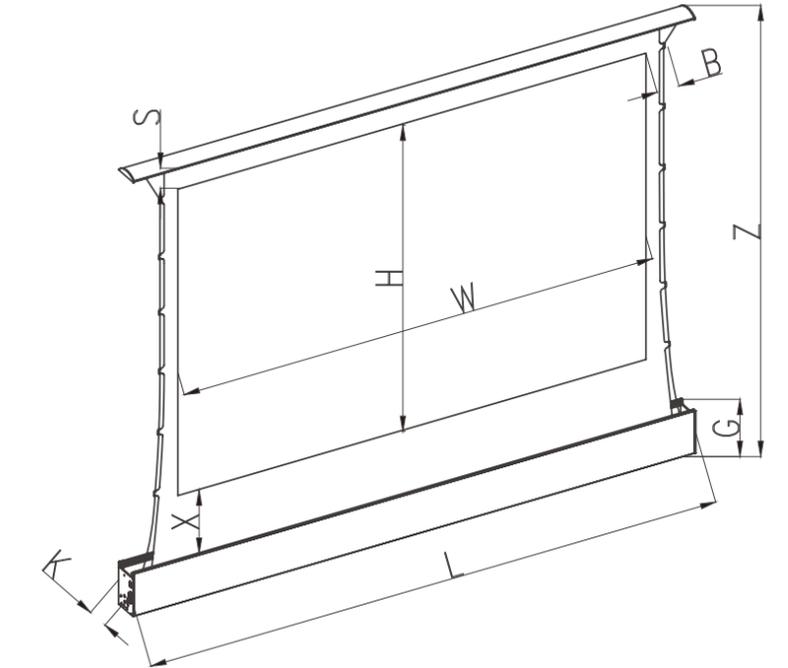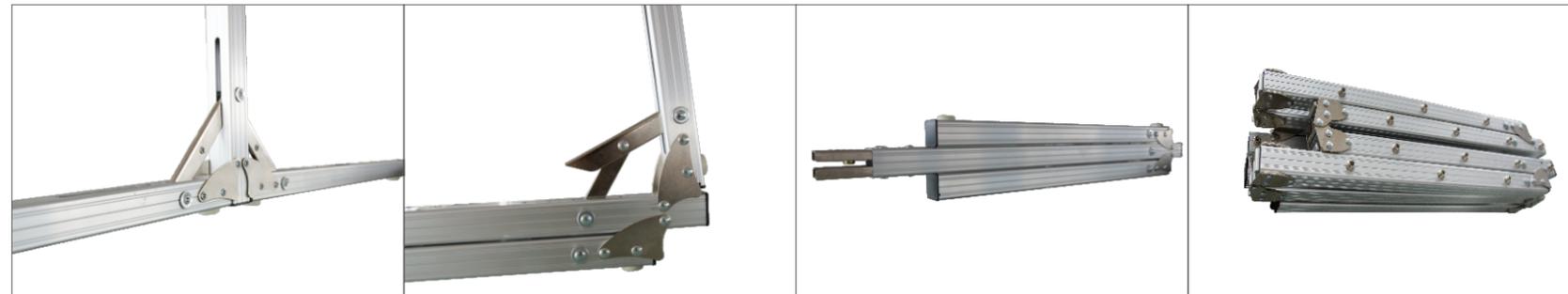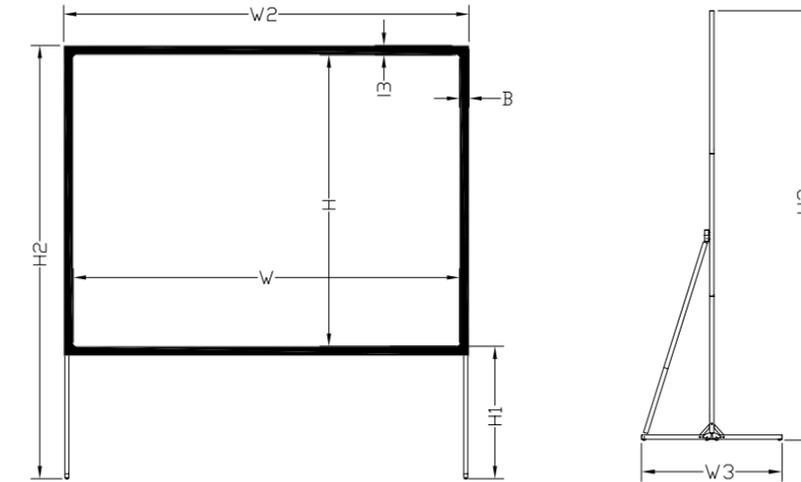




Dimension of EDL-PU Series

| Format | Size (inch) | View Area(mm) | | Housing Size （mm） | | | Top Black Border S | Bottom Black BorderX | Left-Right Black BorderB | Total Height Z | Package Size（mm） | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W | H | L | K | G | | | | | L | W | H |
| 16:9 | 92 | 2037 | 1146 | 2317 | 106 | 210 | 30 | 252 | 80 | 1635 | 2445 | 289 | 185 |
| | 100 | 2214 | 1245 | 2494 | 106 | 210 | 30 | 252 | 80 | 1735 | 2622 | 289 | 185 |
| | 106 | 2347 | 1320 | 2629 | 106 | 210 | 30 | 252 | 80 | 1810 | 2755 | 289 | 185 |
| | 110 | 2435 | 1370 | 2705 | 106 | 210 | 30 | 252 | 80 | 1860 | 2843 | 289 | 185 |
| | 120 | 2657 | 1494 | 2937 | 106 | 210 | 30 | 252 | 80 | 1984 | 3065 | 289 | 185 |
| | 133 | 2944 | 1656 | 3200 | 210 | 110 | 150 | 700 | 85 | 2586 | 3320 | 330 | 270 |
| | 150 | 3321 | 1868 | 3576 | 210 | 110 | 150 | 800 | 85 | 2898 | 3696 | 330 | 270 |

## Outdoor Portable Fast Fold Screen OPF

Outdoor Portable Fast Fold Screen OPF1
Product Features:
Made of sturdy aluminum alloy, no tools are needed for assembly. From taking out of the carrying case to having it fully assembled and ready to watch takes just 3 to 5 minutes.. Easy to carry, the perfect match for travelling, business and education, banquet and other portable application.

Product Parameters:
Format:16:9 / 16:10 / 4:3 / customized
HD:Yes
Package: Carry bag
Projection: Front, Rear and 3D Silver
Size:80-135 inch



Dimension of OPF Series

| Format | Size | Tube Size WxH | View Area W(mm) | View Area H(mm) | Black Borden B(mm) | terrain clearanc H(mm) | Projection Mode | Overall width W2 | Overall Height H2(mm) | Foot Height W3 | Foot Quantity (Unit) | Package Size external packing LxWxH(mm) | N.W Including one PCS Fabric(KG) | G.W Including one PCS Fabric(KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:3 | 80" | 32x32 | 1626 | 1219 | 75 | 700 | Front/Rear | 1776 | 1994 | 1044 | 2 | 740*270*195 | 8.4 | 9.3 |
| | 100" | 32x32 | 2032 | 1523 | 75 | 700 | Front/Rear | 2182 | 2298 | 1044 | 2 | 880*270*195 | 9.7 | 10.8 |
| | 120" | 32x32 | 2438 | 1828 | 75 | 700 | Front/Rear | 2588 | 2603 | 1044 | 2 | 1030*270*195 | 10.6 | 11.8 |
| | 135" | 32x32 | 2742 | 2057 | 75 | 700 | Front/Rear | 2892 | 2832 | 1044 | 2 | 810*270*225 | 12.4 | 13.4 |
| 16:9 | 80" | 32x32 | 1771 | 996 | 75 | 700 | Front/Rear | 1921 | 1771 | 1044 | 2 | 720*270*195 | 8.3 | 9.2 |
| | 100" | 32x32 | 2213 | 1245 | 75 | 700 | Front/Rear | 2363 | 2020 | 1044 | 2 | 850*270*195 | 9.5 | 10.5 |
| | 120" | 32x32 | 2656 | 1493 | 75 | 700 | Front/Rear | 2806 | 2268 | 1044 | 2 | 1000*270*195 | 10.6 | 11.7 |
| | 135" | 32x32 | 2990 | 1682 | 75 | 700 | Front/Rear | 3140 | 2457 | 1044 | 2 | 800*270*215 | 12 | 13.1 |

## Tabletop Projection Screen WTA

Tabletop Projection Screen WTA
Product Features:
XY Tabletop projection screen is designed for mini projector and mini phone-projector. It's suitable for small meeting, business presentation, outdoor events and so on. Beautiful, lightweight, easy to carry. It can stand on the table or hang on the wall when it is used .
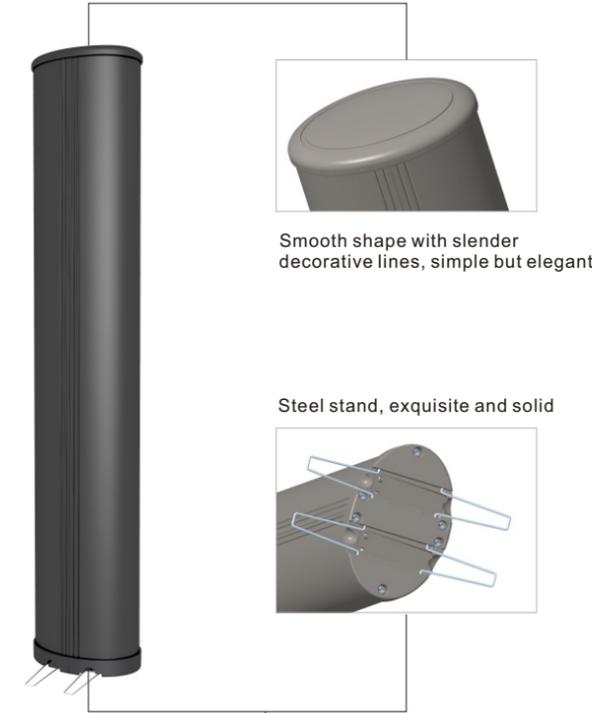
Product Parameters:
Format:16:9 / 4:3
Housing Material: Aluminum Alloy
HD:Yes
Control Mode:  Manual
Front Projection:Yes
Fabric Material:Matt White
Size:20, 25, 30 inch

正面图

正面图          侧面图          背面图

Rear View

Stable Support Bracket
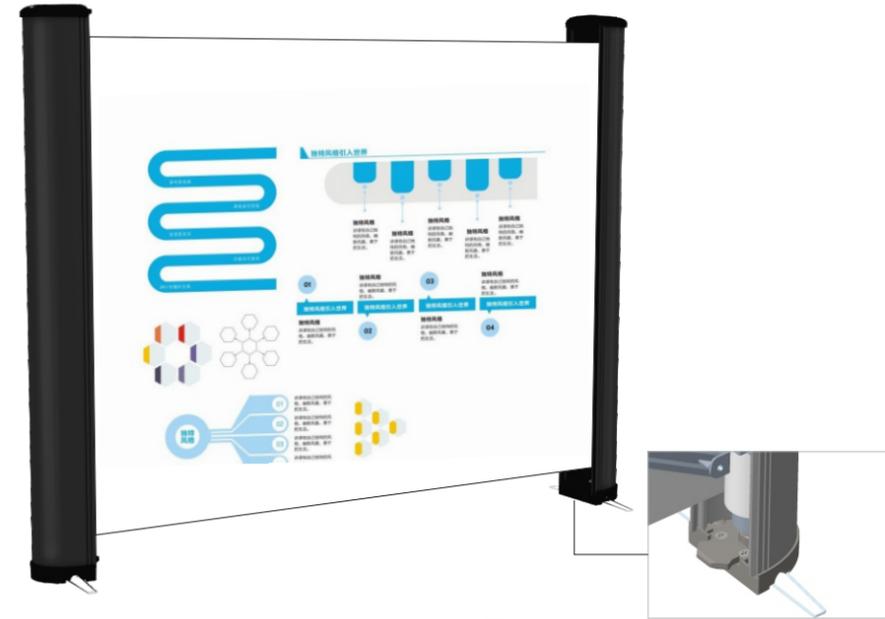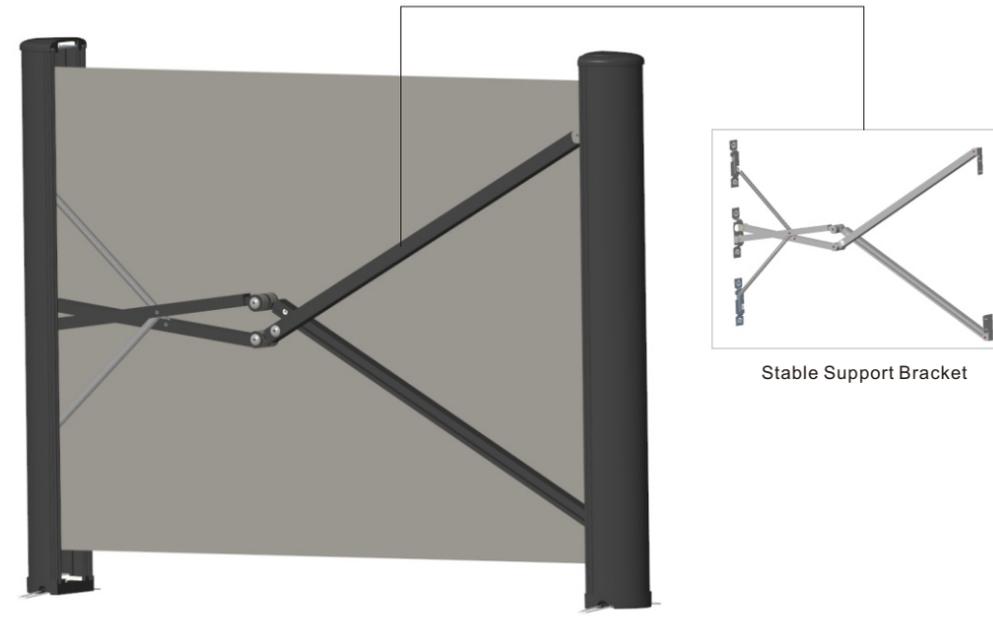
Smooth shape with slender decorative lines, simple but elegant

Steel stand, exquisite and solid

Plastic male buckle and high elastic metal female buckle, easy to fasten.
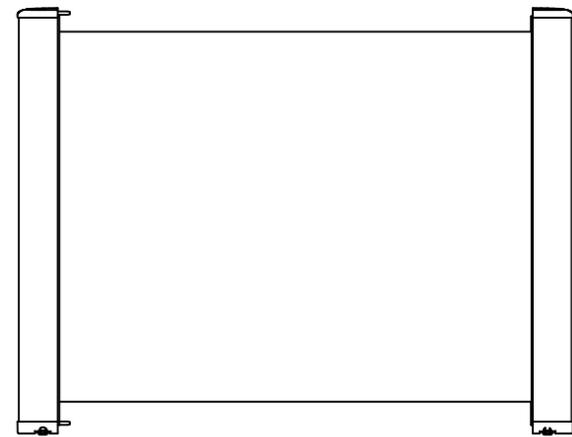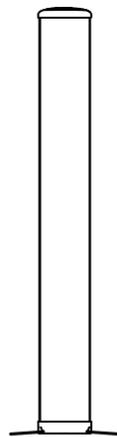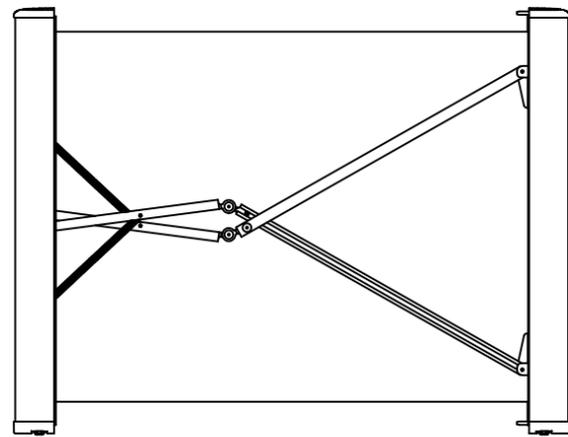
| Format | Size | Unfolding Size | | Folding（mm） | | |
|---|---|---|---|---|---|---|
| | | W | H | Width | Thickness | Height |
| 4:3 | 20" (406*305) | 482 | 385 | 74 | 48 | 385 |
| | 25" (508*381) | 415 | 472 | 74 | 48 | 472 |
| | 30" (610*457) | 685 | 556 | 74 | 48 | 556 |
| 16:9 | 20" (443*249) | 519 | 396 | 74 | 48 | 396 |
| | 25" (553*311) | 629 | 484 | 74 | 48 | 484 |
| | 30" (664*374) | 740 | 572 | 74 | 48 | 572 |

## Business / Education / Engineering
## Large Motorized Screen LC Series

LC Series is designed to address today's larger commercial venues, such as luxurious hotel, conventional center, opera and etc. Special Tubular Motor in roller design keeps quiet and smooth operation. Large diameter rollers ensure long-term screen integrity providing a consistent flat projection surface. Customer-required format or black border is acceptable.





| ormat | Size; | Viewing Area | | Housing Size |
|---|---|---|---|---|
| | | W（mm） | H（mm） | |
| 4 : 3 | 180" | 3658 | 2743 | 136*177 |
| | 200" | 4064 | 3048 | 136*177 |
| | 220" | 4470 | 3353 | 157*205 |
| | 250" | 5080 | 3810 | 157*205 |
| | 275" | 5588 | 4191 | 197*253 |
| | 300" | 6096 | 4572 | 197*253 |
| 16 : 9 | 180" | 3985 | 2240 | 136*177 |
| | 200" | 4427 | 2489 | 136*177 |
| | 220" | 4870 | 2738 | 157*205 |
| | 250" | 5534 | 3112 | 157*205 |
| | 275" | 6088 | 3423 | 197*253 |
| | 300" | 6641 | 3734 | 197*253 |
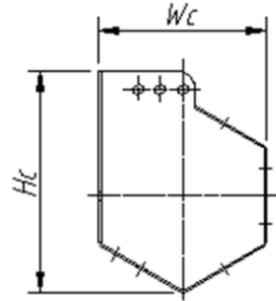


Large Motorized Screen 180 - 300inch
With large size roller and mute tubular motor, the screen surface could always keep flat, thus perfectly presents magnificent visual experience. Strong torque, high-speed low-noise design and unique thermal self-protection system effectively improve its service life. What's more, it is stable, smooth and accurate while raising and dropping the screen.

Product Features:
1.High strength large diameter tube, to avoid bending down in the middle.
2.Large torque motor, smooth operation.
3.Consistent flat projection surface.

Large Motorized Screen 300 inch - 30 meter
Product Features:
The internal structure is made of stainless steel, stable and firm.
High strength large diameter tube, avoiding bending in the middle.
Large torque motor, smooth operation.
Easy and convenient for changing the motor assembly if necessary.
Super flat projection screen provides supreme visual experience.
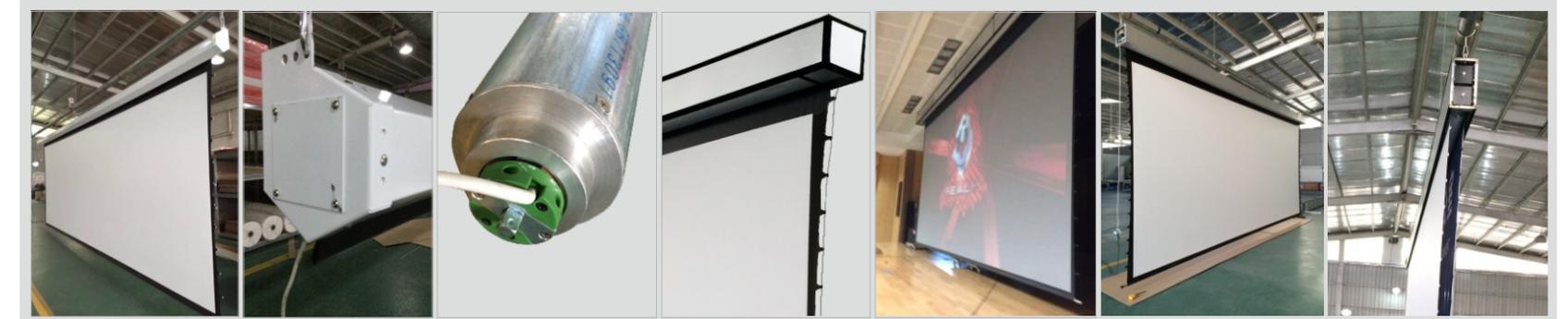
# Large Roll Down Motorized Screen UC1/UC3
# Super Large Size (up to 50 meters)

UC1/UC3 adopts underwind structure. The fabric roller, which is below the fabric, and the main drive shaft are separated, so the roller will have no impact on the screen flatness. With flexible positioning, the upper fabric could always keep smooth. As the main drive shaft is not connected with the fabric, the middle part can add supporting point, both the straightness and service life can be guaranteed.

The mounting brackets are connected with the housing to ensure safety. It meets the requirements of screen industry and has gained good reputation from our partners and customers.

Application Range:
Cathedrals, auditorium, large conference hall, hotel banquet hall, multi-function hall, command center, theater and etc.
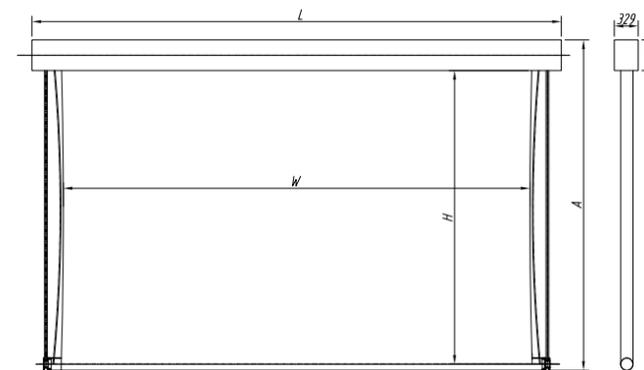


Large Roll Down Motorized Screen UC1(Steel Belt Type)
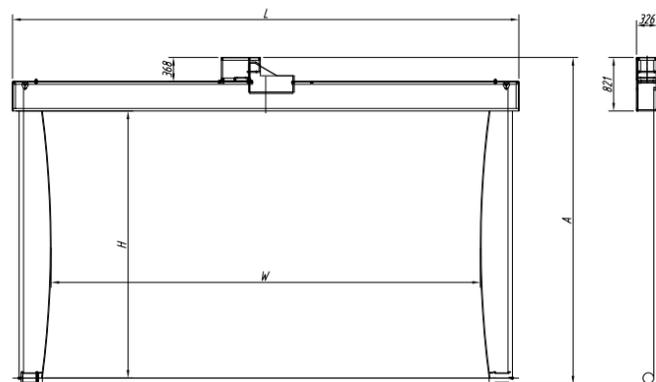


Large Roll Down Motorized Screen UC3(Wirerope Type)

# Large Movie Screen

Large Movie Screen
We produce large movie screen and provide installation service as well. Our 3D silver movie screen can be cleaned with water, without obvious seam line. Its technical parameters meet the requirements of the national film screen industry. So far, we have established excellent reputation among our clients and partners.

3D Silver Perforated Screen

Perforated/ Sound Silver Silver 3D Screen Material/Surface is a non-depolarizing 3D screen Material for professional 3D front projection. It is specially designed to optimize stereoscopic, two channel 3D displays. This Metallic Screen Material employs special metallic elements, formulated to preserve light polarization. The high gain and high contrast of the Material help compensate for the losses incurred when using polarization filtration technology. The tiny holes on it can allow the speakers positioned directly behind the screen, without loss of HD picture, while high precision, but also to achieve unparalleled quality of sound through.

Luminance factor β=1.8-4.0, effective scattering angle 2α=35-52°. It has a flexible vinyl projection Material that retains 99 percent of polarized light. Other characteristics include the ability to maintain high extinction values, virtually eliminate ghosting or crosstalk common with stereoscopic 3D projection and excellent image contrast.

It meets the needs of many consumer, industrial and commercial markets such as electronic gaming, post-production studio applications, sports programming, robotic surgery, museums, 3D modeling, architectural design and much more.


3D Silver Perforated Screen

| Screen Name | Brightness Coefficient β±3° | Effective Scattering Angle 2α±3° | Color Temperature Gap 5400K | Sound Loss | Resolution | Other Features | Applicaiton |
|---|---|---|---|---|---|---|---|
| Silver Screen | 2~2.5 | 55°~50° | +170K | 8KHz＜3.75dB | 80line pair/mm | Polarized Light Reduction≥150:1 | 3D movie |
| | 2.5~3 | 50°~45° | +170K | 12.5KHz＜4.5dB | | | |

Screen Stand
The Screen Stand is constructed of rack, footing, horizontal belt, rod and backwall support. The main part is made of high-quality steel tube. Any sizes screen frames can be customized. You can also add an independent music cabinet stand, maintenance platform, ladder and other appliance.
All the hardwares have passed surface treatment by black electrostatic spraying, with high strength and little light interference. Overturn-resisting coefficient ≧ 1.5. The elevation angle can be adjusted. Easy to install.


Screen Stand

## Projector Brackets DJ1 Series

Projector Brackets DJ1 Series
XY deluxe projector bracket DJ1 Series is made of high-strength aviation aluminum alloy, lightweight and strong. With anodizing coloring technology, it is scratch-resistant, not easy to fade. Four claws are adjustable, suitable for universal projectors.
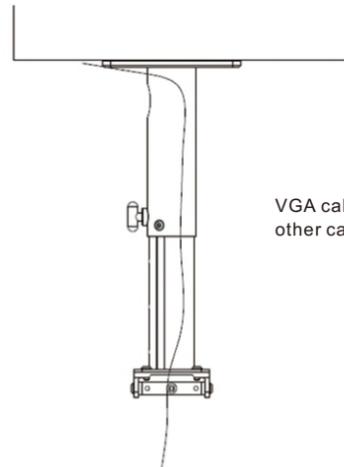
Product Parameters
Cable can be hided: Yes
Tilt: ±5° left/right
Projection tilt: ±5°
Tilt: ±15° up/down
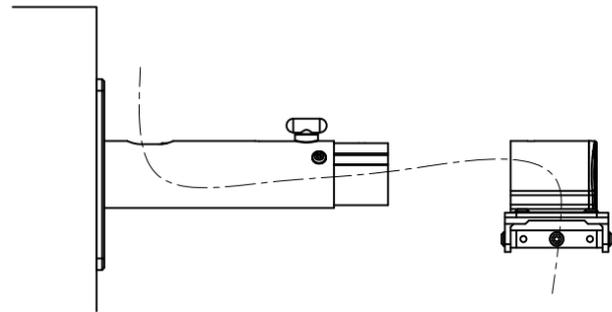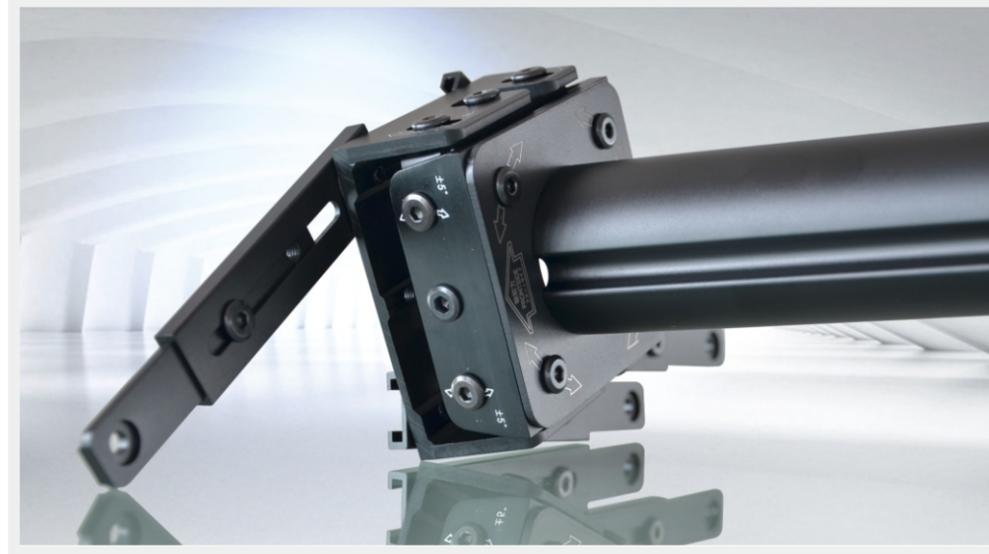
Operate without electricity

VGA cable, HDMI cable, power cable, audio cable and other cables can easily hidden.

Cable Hiding Design of DJ1B

Cable Hiding Design of DJ1C

Mounting Plate
High-quality steel, durable, point-to-point installation, easy to operate.

Extension Pole
Consists of an outer tube and an inner tube. The length can be adjusted with the holes.

Adjustable Head
The direction of the head can be adjusted leftwards or rightwards.

Direction claws
Adjustable Claws Made of high-strength aluminum-magnesium alloy, the angle is adjustable. Diagonal length adjustment range: 311mm-451mm

Model Name: DJ1A(long+short pole)
Extension Length: 110-426mm
Maximum Load: 25KG

Model Name: DJ1B(wall mount)
Extension Length: 363-538mm
Maximum Load: 20KG

Model Name: DJ1C(long pole)
Extension Length: 266-426mm
Maximum Load: 25KG

Model Name: DJ1D(short pole)
Extension Length: 110-125mm
Maximum Load: 25KG

Model Name: DJ1E(extended long pole)
Extension Length: 890-1050mm
Maximum Load: 25KG

Model Name: DJ1-F(double extended long pole)
Extension Length: 565-1015mm
Maximum Load: 25KG

# Motorized Projector Lift EDJ1 Series

Motorized Projector Lift EDJ1 Series
EDJ1 Series is scissor-type motorized projector lift. Equipped with heavy-duty tubular motor and fireproof belt, the operation of the lift is smooth and easy.
Designed with high strength steel and high-quality painting technology, the lift can perfectly match the ceiling after installation.

1. Scissor-type lift
2. Smart dual limit system
3. Tubular motor
4. All sorts of cables are well managed.
5. RS485 interface
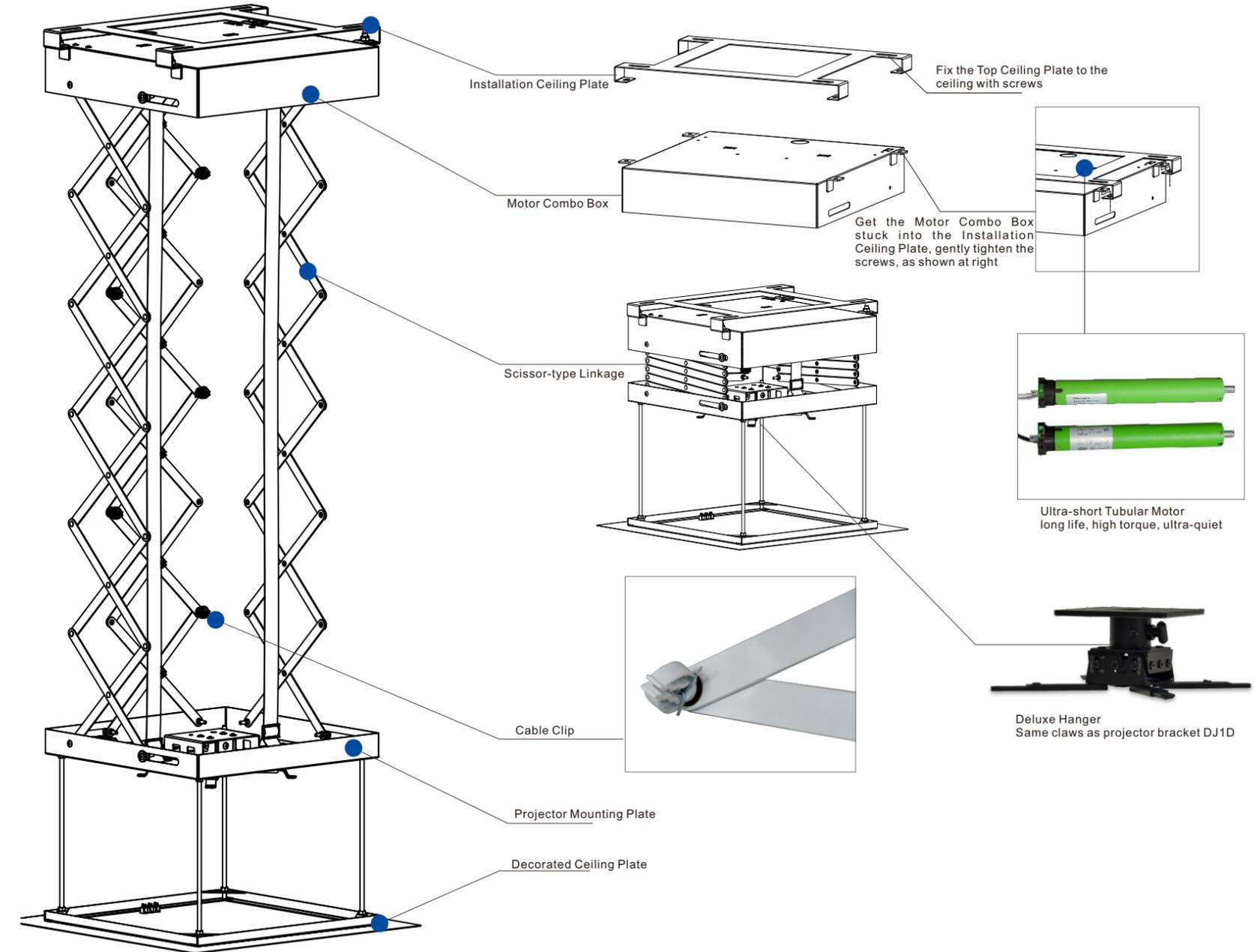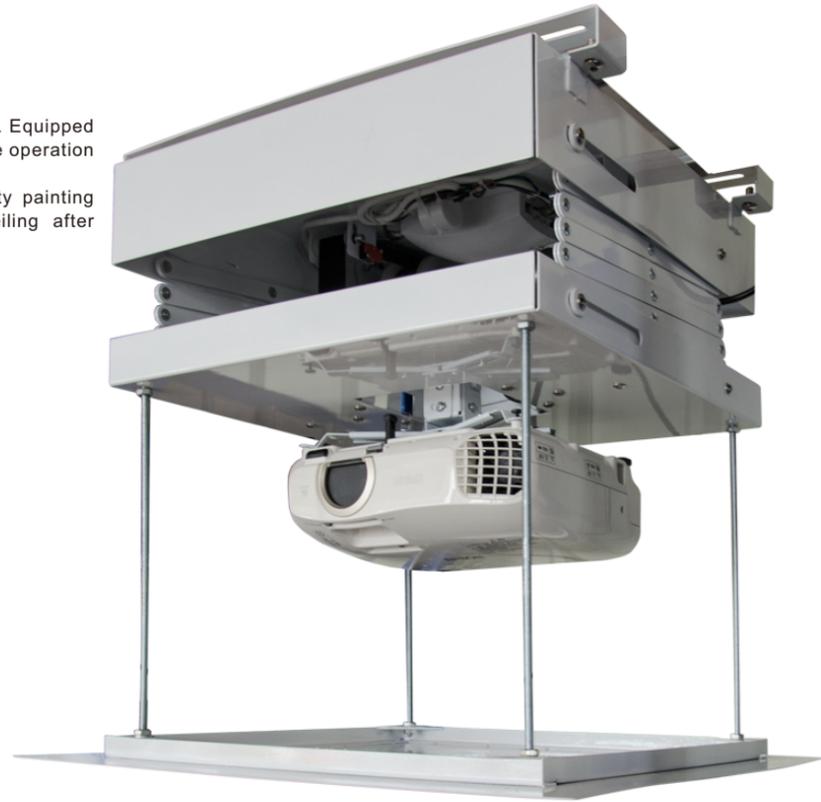


| Product Parameters | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Size / m | Hole Size / mm | Hole Distance / mm | Closing Height / mm | Working Height / mm | Maximum Working Height / mm | Ceiling Groove Size / mm | Scissor Quantity at Each Side | Maximum Height / mm |
| 0.8 | φ8 | 450*350 | 540 | 800 | 880 | 600*600 | 8 pieces | 1420 |
| 1.2 | | | 585 | 1200 | 1325 | | 12 pieces | 1910 |
| 1.8 | | | 655 | 1800 | 1985 | | 18 pieces | 2640 |



Installation Ceiling Plate

Fix the Top Ceiling Plate to the ceiling with screws

Motor Combo Box

Get the Motor Combo Box stuck into the Installation Ceiling Plate, gently tighten the screws, as shown at right

Scissor-type Linkage

Ultra-short Tubular Motor
long life, high torque, ultra-quiet

Cable Clip

Deluxe Hanger
Same claws as projector bracket DJ1D

Projector Mounting Plate

Decorated Ceiling Plate

# HDMI Cable P1000

HDMI Cable P1000

4K / 3D / 18Gbps
Born for high-end audio and video transmission. Suitable for 4K TV, HD projector, HD player and other home theater equipment.

Single Crystal Copper Fibre Core
Using 99.99997% OCC oxygen-free copper, to ensure perfect signal transmission without loss, to realize true 4K!

HDMI 2.0
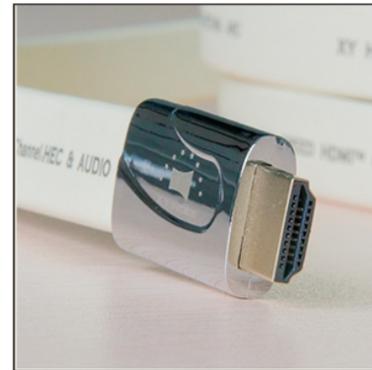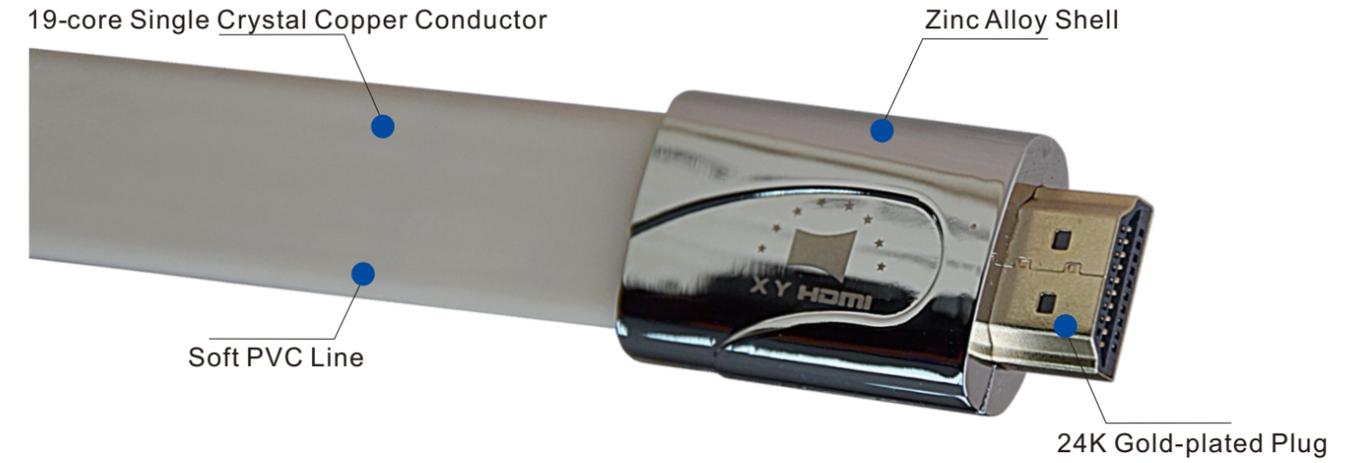With improvement of audio-visual technology, HDMI2.0 version greatly enhances 4K Ultra HD transmission.
Actually HDMI1.4 can already support 4K, but due to the limitation of bandwidth, the maximum is only about 3840x2160 resolution and 30FPS frame rate. HDMI2.0 increases the frame number to 50/60, thus compared with 24/30 before, the picture is more vivid and smooth because of increase in transfer rate.

24K Gold Plated Thick Copper Head
Beautiful and luxurious, effectively improves the conductivity. The oxidation resisting gold-plated layer can protect the plug and not quick wearing.
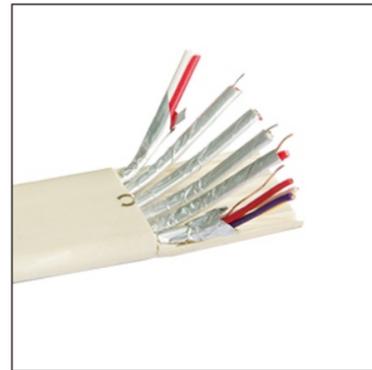 well managed.
5.RS485 interface

## Transfer Speed of Different HDMI Cables

| HDMI 2.0 18Gbps | HDMI 1.4 10.2Gbps | HDMI 1.3 10.2Gbps | SD 0.81Gbps |

| HDMI 2.0 Standard Edition | Ultra HD support 4K | HD 4096x2160 | 19 Standard Cores | 18 Gbps |

| 24K gold-plated plug | Soft PVC line | 19 core oxygen-free copper conductor | high-end box |

19-core Single Crystal Copper Conductor

Zinc Alloy Shell

Soft PVC Line

24K Gold-plated Plug

Model Name: P1000
Specification: HDMI 2.0, support 3D/4K, 60P
Length: 2/8/10/12/15m
Package: High-end Kraft Box
Cores Quantity: 19 + 1
Conductor: 99.9997% Oxygen-free Copper
Outer: PVC Flat Wire
Connector: 24K gold-plated connector, zinc alloy shell
Application: Advanced, High-end video
Screen Performance: bright, vivid picture quality
Sound Performance: smooth and natural