

**Safety Measures**

To ensure the product is used safely, please carefully read both the Manual and the following Safety Precautions.

**Safety Precautions and other important notes**

- The screen may fall off when the ceiling or the wall used to hold the screen is not strong enough, and therefore users are to ensure the wall or ceiling (especially in case of plaster or wood-board etc) is adequately strengthened before setting the screen.
- An improper fixing or electrical work may lead to electricity leakage or even fire. Therefore users are highly recommended to appoint our short-listed contractors.
- The surface of the screen is specially processed to enhance the screening effect, and any dirt or damage to the screen could worsen the quality. Hence users shall observe the following measures
  - (i) Do not touch the screen surface with bare hands.
  - (ii) Do not write directly on the screen.
  - (iii) Do not scrub the screen surface with any hard objects.
  - (iv) Only soft brush or dry cloth shall be used to wipe off the dust from the screen. Never use a wet cloth nor any chemicals to clean the screen surface.
  - (v) **Bring the screen in setting on proper level, watching from the case edge-otherwise some lines or V-shape wrinkles shall be brought the screen fabric.**
- The screen fabric may slightly expand or shrink subject to the room temperature or humidity.
- When using the models with Infra-red remote control, the receptors shall not be placed closed to other florescent lamp or device to avoid any false signals.

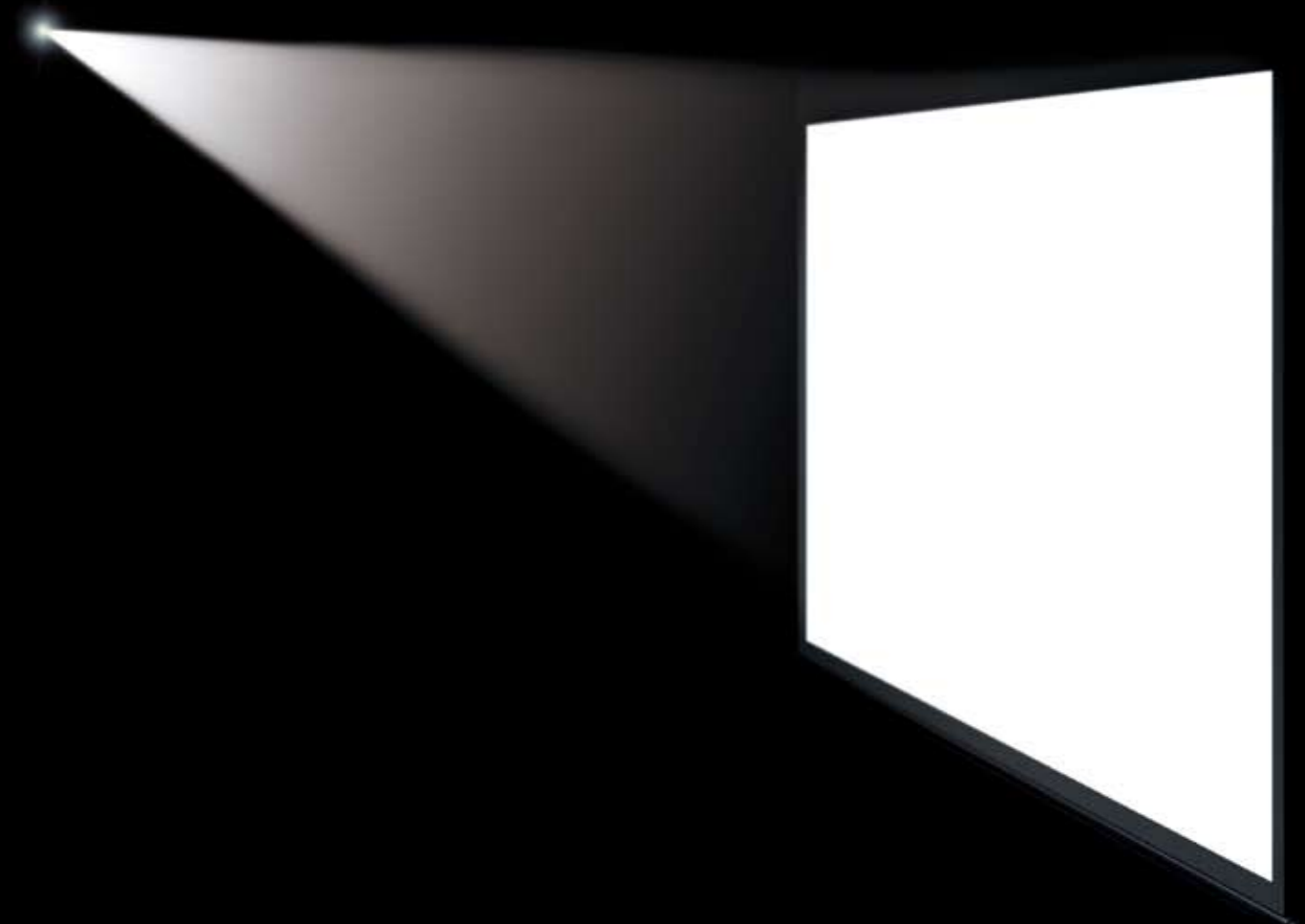
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Sales agent

**OSI CO., LTD.**

Unit 1605, 16/F, Seaview Centre, 139 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong  
Tel: (852) 3580 0087 Fax: (852) 2367 4300

■ Web site <http://www.os-worldwide.com>  
■ E-mail [info-hk@osscreen.com](mailto:info-hk@osscreen.com)

- This catalogue is current as of October 2008.
- Please note that the product colors appearing in this catalogue may vary from the actual item due to the characteristics of the printing process.
- Product specifications are subject to change without notice.

**OSI CO., LTD.**



**Home Theater - Your deluxe enjoyment with OS Screen**

Rapid development in digital broadcasting and broadband networks brings about a new era of high definition imagery, therefore now is the best time to start building your own home theatre system.

Naturally, large screen visual and powerful audio effects are two very basic factors used in creating an excellent home theatre environment with the highest level of enjoyment and OS Screens are specially designed to perfect these requirements.

The Pure-mat Screen series, which recently earned high praise from the market, provides the finest quality of screen surfaces and various installation options to fit the needs of different users. This catalogue provides a detailed introduction to the product features, but more importantly the know-how in selecting the right kind of screen.

At OS Screen we always strive to extend our warm support to home theatre users by providing the best products and information to help customers in selecting the most suitable screen for their home theatre.

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# How to select the right kind of home theater screen

To start your own home theatre To select a screen for your home theatre, the size, materials, and method of installation are some basic considerations. These factors are, in turn, determined by the location and screen position. Therefore the first step is to determine the space for setting up the home theatre.

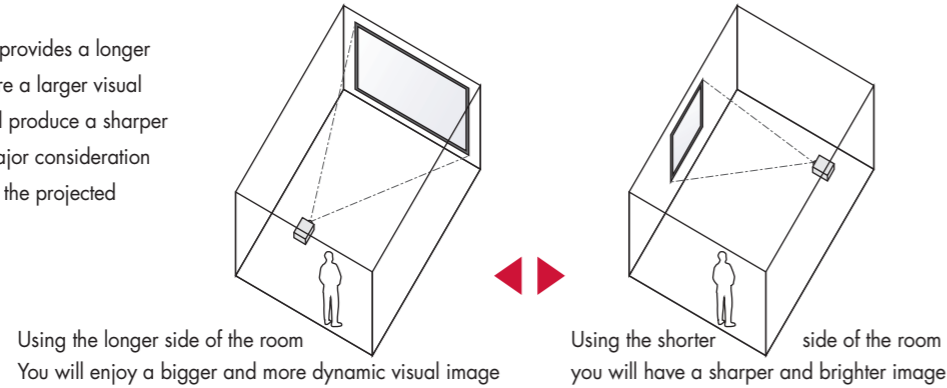
## 1. Location and position of the screen

If you do not have a room specially for your home theatre, we recommend you consider a location which is possible for both the daily life and home theatre use. Also, how you are using the space will affect the visual image so you should consider the location of the installation before choosing the screen.

### Image will be affected by how the space is utilised

#### Use of Wall

Using the longer side of the room provides a longer distance of projection and therefore a larger visual image, whereas a shorter side will produce a sharper and clearer image. This is one major consideration in determining the final product of the projected image.



### How external light affects the visual image

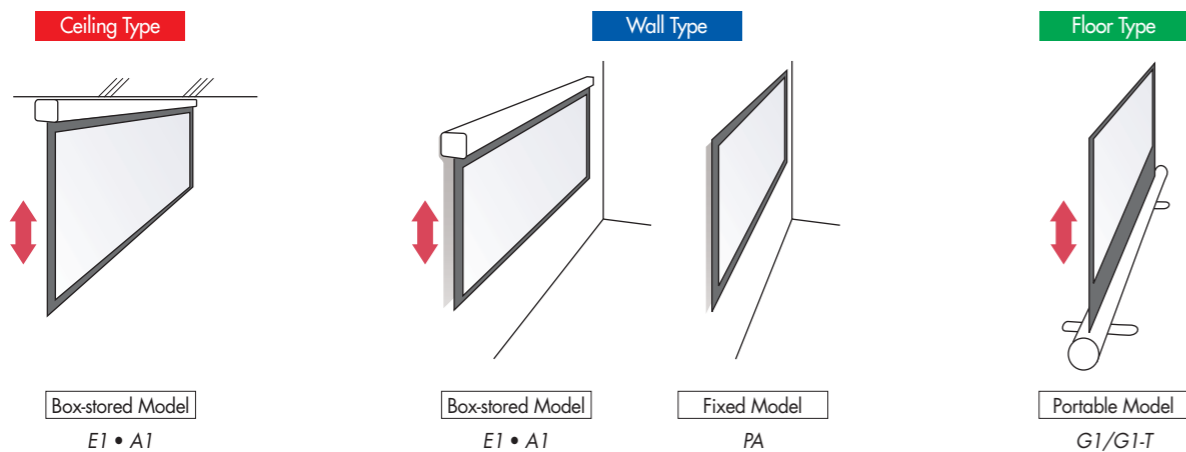
✓ When establishing a home theatre shutting out external light from the back of the projector can help to produce a sharper and brighter image.



✗ If external light enters the room from the back of projector, the screen reflects the external light and makes the image more difficult to see. Therefore any external light from the back of projector should be avoided.

## 2. Method of installation

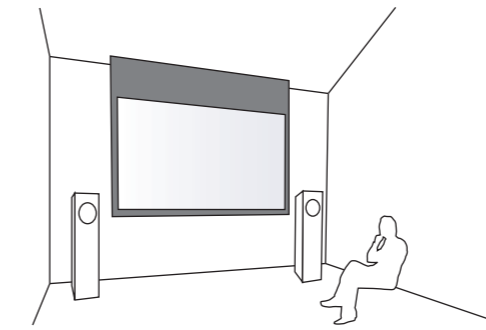
There are several methods to install the screen. Even in cases where adequate wall surface is not available, some screen models are specially designed so that it can be rolled out only when needed. In this way, daily life and the home theatre can co-exist in the same space.



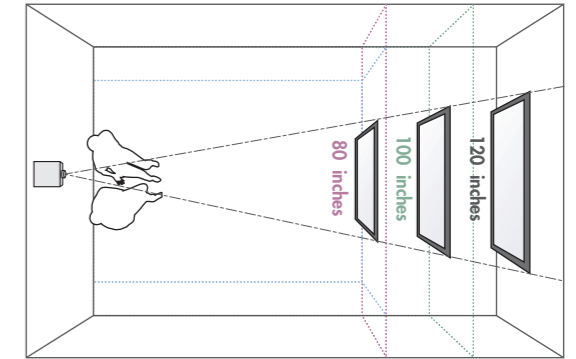
## 3. Size of the screen

### How to determine the screen size

The area of the room is the key factor determining the approximate screen size. Generally speaking, the width of the screen shall be approximately 2/3 to 1/2 of the distance between viewer's position and the screen.



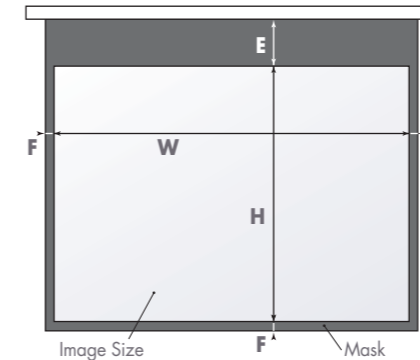
\* Do not forget to consider the size and the position of speakers as well. As the speakers are usually placed on both sides of the screen, speakers size and position must be considered when determining which screen size is to be used.



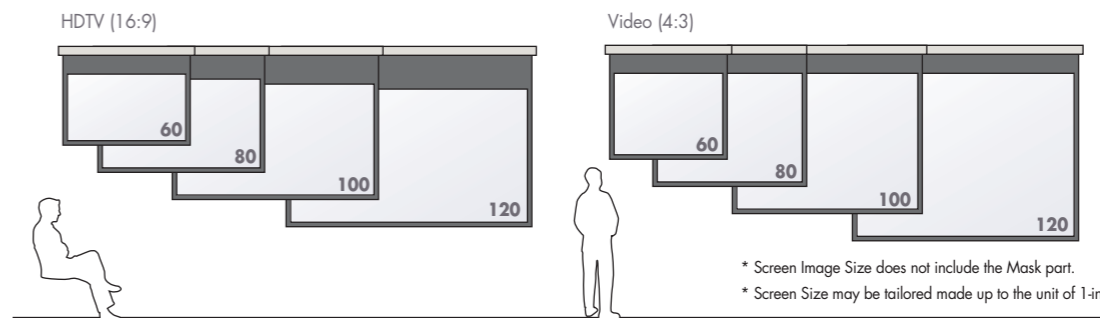
| Size of the room | In sq.metres             | Approximate Screen Size |
|------------------|--------------------------|-------------------------|
| Small            | 9.9-13.2 m <sup>2</sup>  | 60-80 type              |
| Medium           | 16.5-19.8 m <sup>2</sup> | 80-100 type             |
| Large            | 26.4 m <sup>2</sup> ~    | 100~ type               |

### Screen Image Size

The projected image (WxH) is referred as the "Image Size". The screen size is mainly classified into HDTV Type (16:9) and the Video Type (4:3)



| Model | HDTV Type (16:9) |        | Video Type (4:3) |        |
|-------|------------------|--------|------------------|--------|
|       | W (mm)           | H (mm) | W (mm)           | H (mm) |
| 60    | 1328             | 747    | 1219             | 914    |
| 70    | 1550             | 872    | 1422             | 1067   |
| 80    | 1771             | 996    | 1626             | 1219   |
| 90    | 1992             | 1121   | 1829             | 1372   |
| 100   | 2214             | 1245   | 2032             | 1524   |
| 110   | 2435             | 1370   | 2235             | 1676   |
| 120   | 2657             | 1494   | 2438             | 1829   |
| 130   | 2878             | 1619   | 2642             | 1981   |
| 140   | 3099             | 1743   | 2845             | 2134   |
| 150   | 3321             | 1868   | 3048             | 2286   |
| 160   | 3542             | 1992   | 3251             | 2438   |
| 170   | 3764             | 2117   | 3454             | 2591   |
| 180   | 3985             | 2242   | 3658             | 2743   |
| 190   | 4206             | 2366   | 3861             | 2896   |
| 200   | 4428             | 2491   | 4064             | 3048   |



### Screen Mask Size

The Screen Image is surrounded by a darkly painted frame to absorb the light. This is called the Screen Mask. The size of Screen Mask varies in different models and screen sizes. Part "E" in the above figure is referred to as "Upper Border". For example, in Ceiling Type screens, the Upper Border will be used to adjust the height of the image size. The dimension of Screen Mask can be tailored to suit special purposes as well.

\* The Screen Mask can be tailored made to the unit of 1-mm (some sketchable materials may be subjected to a different measurement)  
\* Tailor-made may not be possible for certain types of screen materials and models.

# How to select the optimal type of screen materials

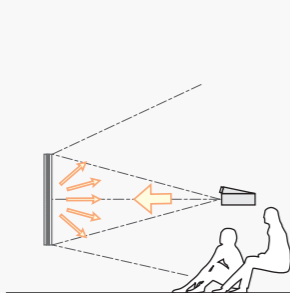
Different screen materials may have different effects on final images. At the same time, the position of projectors and the surrounding environments may need different types of screen materials to produce the best effects. Therefore, the projector position, viewer's position, and desired visual image etc. must be considered when choosing the screen materials.

## 4. Basic knowledge on the characteristics of screen materials

### Reflexibility

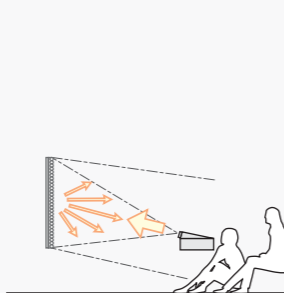
The Diffuse Type, Return Type and Reflect Type each reflect a projected light in different angles. Hence the projector position is an important factor in choosing the screen materials.

### Diffusive Type (Pure-mat, White)



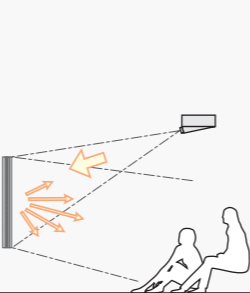
Even if the projector is suspended from the ceiling, or stands on floor/lower surface, a Diffusive Type produces bright and sharp images.

### Reflexive Type (Glass Beaded)



Reflexive Type returns light back to the same direction and therefore is suitable when projector stands on floor/lower surface.

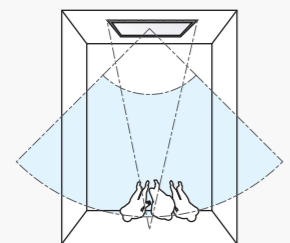
### Reflective Type (Pearl)



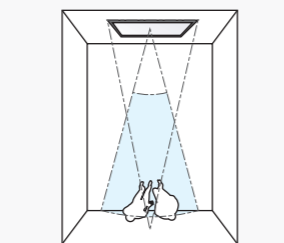
Reflective Type reflects light in an opposite direction and therefore is well-suited when projectors are suspended from ceiling.

### Range of reflected light

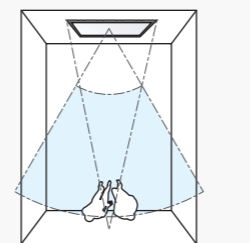
Different screen materials have different reflection characteristics which affects the range of reflected light (image visible range) (some materials may not give the best performances in certain projector position and viewer's position)



Diffusive Type gives the widest range of reflected light and therefore is suitable when there is large number of audience.



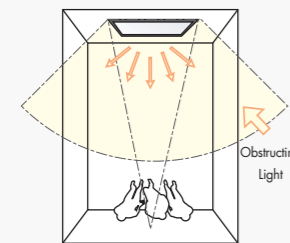
Reflexive Type gives a condensed range of reflected light, but enables a sharp and brighter image in a specified direction.



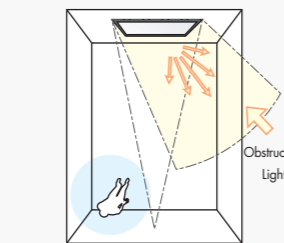
Reflective Type strikes a good balance between the reflection strength and range of reflected light.

### Obstructing Light

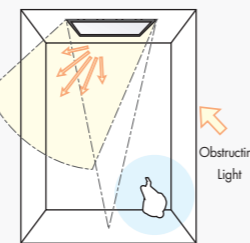
If external light cannot be totally shut out, the right kind of screen material will help to give a better performance of projected image.



Diffusive Type reflects the external light in a wide angle and is therefore more effective in reducing undesirable effects.



Reflexive Type reflects external light in the same angle and therefore is recommended when an external light enters the room from the opposite side to the viewer's position.



Reflective Type reflects external light in an opposite direction and therefore is recommended when an external light enters the room from the same side as the viewer's position.

### Image Features

Screen materials produce different image effects, users are advised to experience this at the vendor's showroom.

The natural layering gives a soft and mild image. In particular, the Pure-Mat series excel in giving natural, bright and sharp images.

Sharp and focused image. A TV-like feeling and dynamic visual image.

A subdued contrast of light giving excellent flat images. Perfect spectrum of dark images.

### Viewing Environment

The characteristics of each screen material will suit different theatre environments.

Ideal in a dark room with a projector that has a strong power output to give the best performance.

When a projector stands on the floor or low surface there is no need to have a with strong power output.

Projector which is suspended from ceiling, and recommended to be used on surface with high degree of flatness.

## 5. To select the right kind of materials according to the position of projector

### Pure Mat II plus [PAT.P] (Diffusive Type)

Pure-mat is a registered name by OS Screen.

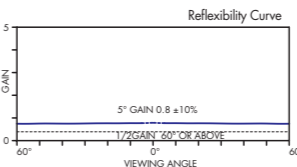
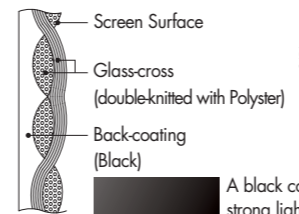
Pure-Mat is specially designed to effectively reflect the light in a dispersed and wide angle with spot-free equal brightness. Fibers are knitted in a random manner to give a smooth dispersion of light and this successfully minimises the interfering stripes visible under some fixed-output projectors. The dispersed light produces a wide reflected angle with a natural distribution of light.



**Random Knitting**  
Pure-mat is knitted in a random direction so as to minimize the interfering stripes

**Black-dyed synthesized fiber**  
To suppress the external light to enable complete disperse of light

### WF 202 5° gain 0.8 ± 10%

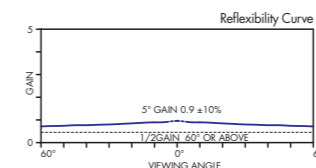
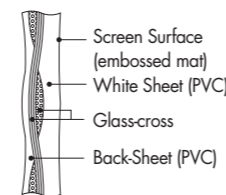


A black coating gives an even better shield-out effect of strong light and provides excellent sharpness and contrast.

### White Mat (Diffusive Type)

The surface is an embossed process to reflect the incoming light to the widest possible angle in all directions and does not depend on the position of the projector. However, it requires a higher level of light-proof and a stronger output projector. It is especially good at producing harmonious, natural and soft images.

### WG 5° gain 0.9 ± 10% ©fireproof



### Sound Mat (Diffusive Type) THX

NEW

### Superb acoustics transparent & visual quality

The latest OS SOUNDMAT (WS102) reproduces the original idea of movie producer. Such re-creation of the original image and superior acoustic transparency give it THX approval which is recognized as "Top of the world" in the AV industry.

The unique weaving technique "Super · AV · Knitting" not only improves acoustic transparent capacity but also eliminates Moiré. The viewing angle is 170° therefore the same quality image can be reproduced to almost the entire room. Moreover, reflexive light from the back is restrained with the "Stainless Sputtering" back coating technique, giving a superb image.

SOUNDMAT (WS 102) also awarded the ECO mark by the Japan Environment Association (JEA). 80% of the screen fabric was made from recycled material without Vinyl Chloride and hence un-harmful to the environment.

### Super · AV · Knitting



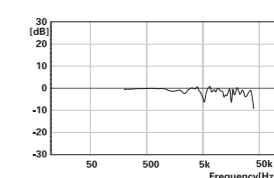
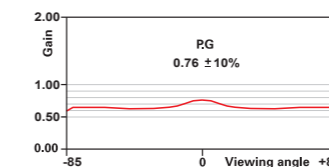
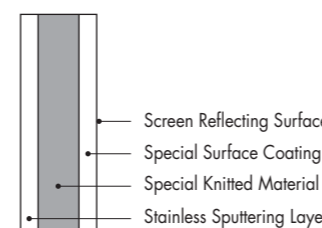
(Front)

### Stainless Sputtering



(Back)

### WS 102 5° gain 0.76 ± 10%



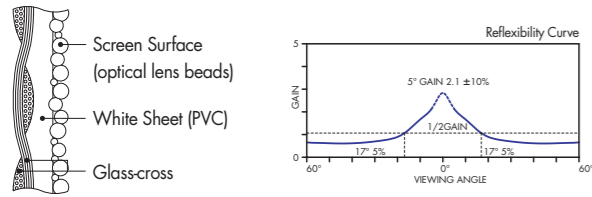
# How to select the best screen

A perfect match of screen with the home theatre can be achieved by first determining both the installation and storage method.

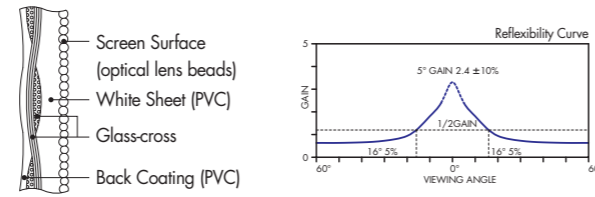
## Beads / Ultra-beads (Reflexive Type)

A Return Type screen is made by coating the surface with small optical lens beads. The incoming light will be reflected in the same angle, therefore is less subject to other reflections or obstructing lights. This type of screen is more suited where the projector is placed on the floor or a low position or when the output of projector is low. Sharp and focused images with TV-like dynamic image is the biggest attraction.

**BS** 5° gain 2.1 ±10%/Half gain 17°±5% ©fireproof



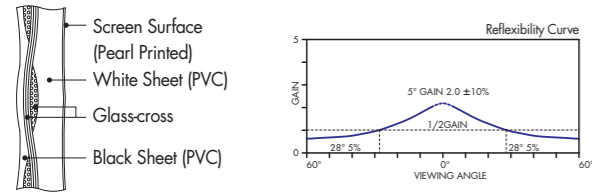
**BU** 5° gain 2.4 ±10%/Half gain 16°±5% ©fireproof



## Pearl (Reflexive Type)

A Reflective Type screen surface is evenly painted with pearl paint to enhance the high level of sharpness and wide reflected angles. It is suitable when the projector is hung from above. A dark environment will provide a better image. This type of screen produces weak contrasting effects, black images or harmonious dark images.

**PP** 5° gain 2.0 ±10%/Half gain 28°±5% ©fireproof



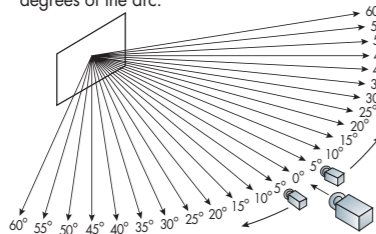
## 6. Screen Gain

Screen Gain is a measurement of reflexibility of screen material and is an important indicator of the screen's characteristics.

Theoretically, the brightness of a standard white board (i.e. pure white board coated with magnesium oxide) is set as 1, and Screen Gain is the degree of brightness compared to this figure under the same environment.

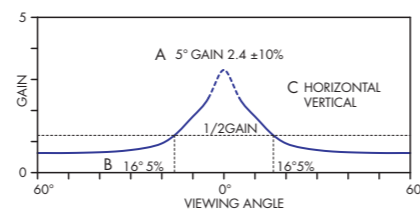
### Measurement of Screen Gain

To project light at 90 degrees directly to the centre of the tested screen and measure image brightness at 5 degree interval from the right 60 degrees to left 60 degrees of the arc.



### How to interpret the reflexibility curve

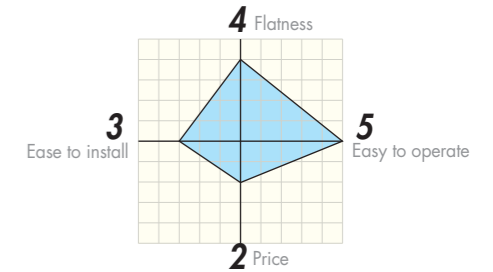
A : the actual Peak-gain at 5 degree intervals of the viewing angle.  
B : Actual Half-gain angle (viewing angle)  
C : Horizontal-Vertical Reflexibility Curve.



## 7. To select the most suitable home theatre screen

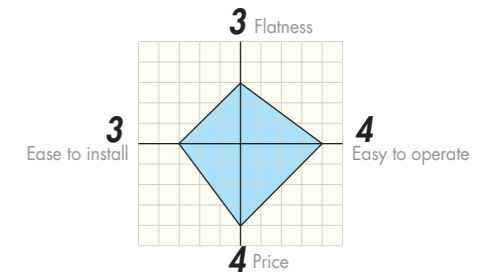
### Electric Type

The lifting and lowering of the screen can be easily operated by a remote control. It maintains the highest level of flatness among all the rolled-up type screens.



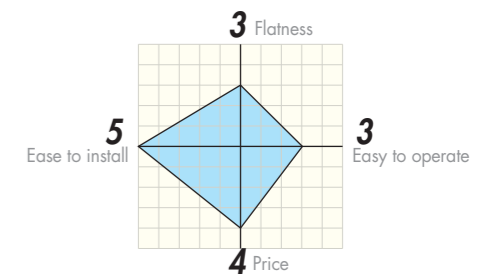
### Manual Type

The lowering and raising is controlled manually. When used with the OS-developed Ball-stop device [PAT.] and Soft-wind device [PAT.], the screen can be raised at full speed.



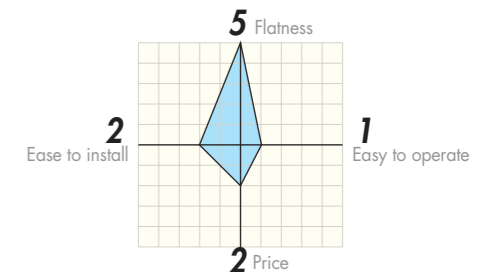
### Freestanding Type

The mainbody is placed on the floor, and the screen can be pulled upwards easily. It is a highly convenient portable type screen.



### Fixed Type

This type of screen is being fixed on the wall and therefore always maintains an ideal flat surface. It is recommended for professional users



### Key

#### Flatness

When comparing the figure against the same screen size, a higher number indicates a higher level of flatness.

#### Ease to operate

5=automatic by remote control  
4>manual driven (automatically rolling up)  
3>manual driven  
2=roll-up by hand  
1=fixed type

#### Ease to install

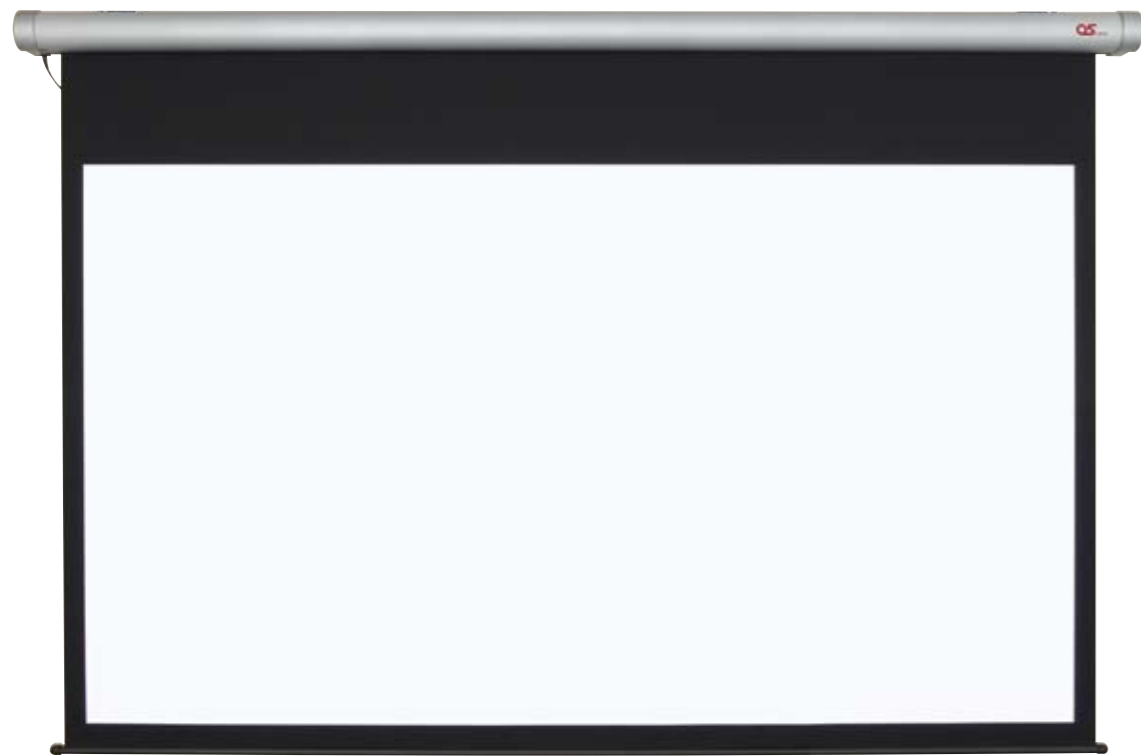
5=install without the use of any tool  
4=install by using a tool but can be managed by a single person  
3=can be installed using a tool and two people  
2=should be installed by outside vendor/technical worker  
1=need to consider from the design stage

# E1

## Electric Type

Screen Materials: **WG** **WF** **WS** **BU**

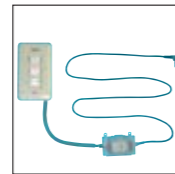
- A simple, modern looking aluminium case which goes well with all interior designs.
- Tension-adjustment technology to always maintain the screen surface in its best state and newly designed under-bar available in attractive designs and colours.
- Newly designed Separation Case and Sliding-bracket dramatically reduce the difficulties of installation work.
- Easily operated by using the infra-red wireless remote control with the electric socket and light-receptor. The IR receiver can be placed anywhere within 300mm of control socket.
- Low voltage contact type switch control is also available.
- By using the optional item extension poles (for P-series), the screen can be anchored to the walls or ceilings even without nails or screws, enabling the installation of rolled-up type screens in rented apartments.



■ Accessories: Bracket



■ Accessories: Infra-red Remote Control & receiver (FS-6)



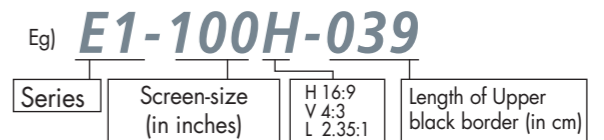
■ Optional item: Contact type Switch (FS-1)



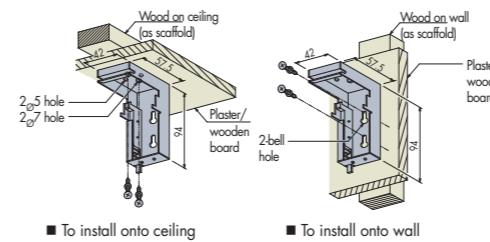
■ Optional Item: P21-A/P22-A Extension Pole

| E1-H Series<br>HDTV Format<br>(16:9 / 1.78:1 Aspect Ratio) | Image Size<br>W x H (mm) | Screen Width<br>A (mm) | Case Width<br>B (mm) | Case Height<br>C (mm) | Upper Black Border<br>U (mm) | Screen Height<br>T (mm) | Mounting Distance<br>G (mm) | Lower Bar Width<br>P (mm) | Screen Weight<br>(kg) | White Mat (WG) | Pure Mat II plus (WF 202) | Sound Mat (WS 102) | Ultra Beads (BU) |
|--|--------------------------|------------------------|----------------------|-----------------------|------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------|----------------|---------------------------|--------------------|------------------|
| <b>Standard</b>  |                          |                        |                      |                       |                              |                         |                             |                           |                       |                |                           |                    |                  |
| E1-080H-064  | 1771 x 996               | 2050                   | 110                  | 125                   | 640                          | 1815                    | 1350 or above               | 1925                      | 8.3                   | -              | ○                         | ○                  | ○                |
| E1-090H-051  | 1992 x 1121              | 2270                   | 110                  | 125                   | 510                          | 1815                    | 1350 or above               | 2145                      | 9.1                   | -              | ○                         | ○                  | ○                |
| E1-100H-039  | 2214 x 1245              | 2490                   | 110                  | 125                   | 390                          | 1815                    | 1800 or above               | 2370                      | 9.8                   | -              | ○                         | ○                  | ○                |
| E1-110H-027  | 2435 x 1370              | 2710                   | 110                  | 125                   | 270                          | 1815                    | 1800 or above               | 2590                      | 10.5                  | -              | ○                         | ○                  | ○                |
| E1-120H-014  | 2657 x 1494              | 2935                   | 110                  | 125                   | 140                          | 1815                    | 2250 or above               | 2810                      | 11.3                  | -              | ○                         | ○                  | ○                |
| <b>Long Upper Black Border</b>                             |                          |                        |                      |                       |                              |                         |                             |                           |                       |                |                           |                    |                  |
| E1-080H-110  | 1771 x 996               | 2050                   | 110                  | 125                   | 1100                         | 2275                    | 1350 or above               | 1925                      | 9.4                   | -              | ○                         | ○                  | -                |
| E1-090H-097  | 1992 x 1121              | 2270                   | 110                  | 125                   | 970                          | 2275                    | 1350 or above               | 2145                      | 10.3                  | -              | ○                         | ○                  | -                |
| E1-100H-085  | 2214 x 1245              | 2490                   | 110                  | 125                   | 850                          | 2275                    | 1800 or above               | 2370                      | 11.2                  | -              | ○                         | ○                  | -                |
| E1-110H-073  | 2435 x 1370              | 2710                   | 110                  | 125                   | 730                          | 2275                    | 1800 or above               | 2590                      | 12.1                  | -              | ○                         | ○                  | -                |
| E1-120H-060  | 2657 x 1494              | 2935                   | 110                  | 125                   | 600                          | 2275                    | 2250 or above               | 2810                      | 13.0                  | -              | ○                         | ○                  | -                |

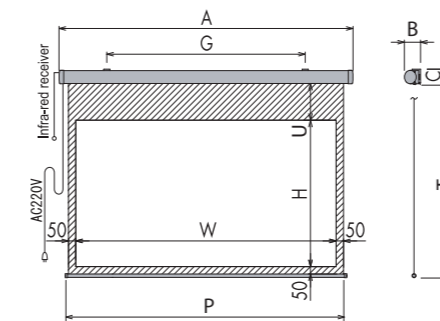
## Readings on the model number



## How to install the screen



## E1



Infra-red receiver... 300mm  
Power supply cord... 2000mm

## Electric type Symmetry Case

Individual symmetry cases specially designed for OS Screen which makes the installing and position-adjustment easier than ever.

## New Design - Use of Sliding-bracket



The rail attached to the screen can slide along the bracket. This design enables a more compact case.

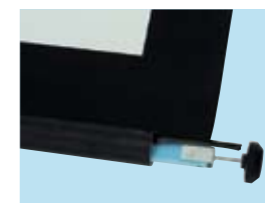
## Available in different types of screen materials

Customer may specify the screen materials ranges from Pure Mat II Plus, White Mat & Ultra-beads to meet their particular needs. The latest acoustic transparent fabric, Sound Mat (WS 102), is also available for ultimate Home Theatre experience.

## Enhanced Under-bar to further upgrade the screening environment

To further enhance the screen performance, the Underbar is now painted in black so that users can concentrate more on the screen.

## Tension-adjustment device



The weight of the screen may unavoidably create wrinkles on the lower side of the screen. A Tension-adjustment device is also installed which can easily adjust the flatness of the screen materials by rotating it in a back and forth direction. This design greatly improves the performance of the screen materials by correcting shrinking conditions however the effect may not be noticeable for certain kinds of wrinkles.

## NEW

| E1-V Series<br>Video Format<br>(4:3 / 1.33:1 Aspect Ratio) | Image Size<br>W x H (mm) | Screen Width<br>A (mm) | Case Width<br>B (mm) | Case Height<br>C (mm) | Upper Black Border<br>U (mm) | Screen Height<br>T (mm) | Mounting Distance<br>G (mm) | Lower Bar Width<br>P (mm) | Screen Weight<br>(kg) | White Mat (WG) | Pure Mat II plus (WF 202) | Sound Mat (WS 102) | Ultra Beads (BU) |
|--|--------------------------|------------------------|----------------------|-----------------------|------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------|----------------|---------------------------|--------------------|------------------|
| <b>Standard</b>  |                          |                        |                      |                       |                              |                         |                             |                           |                       |                |                           |                    |                  |
| E1-100L-064  | 2337 x 995               | 2615                   | 110                  | 125                   | 640                          | 1815                    | 1800 or above               | 2490                      | 10.0                  | -              | ○                         | ○                  | -                |
| E1-110L-054  | 2571 x 1094              | 2850                   | 110                  | 125                   | 540                          | 1815                    | 2250 or above               | 2725                      | 12.5                  | -              | ○                         | ○                  | -                |
| <b>Standard</b>  |                          |                        |                      |                       |                              |                         |                             |                           |                       |                |                           |                    |                  |
| E1-080V-088  | 1626 x 1219              | 1905                   | 110                  | 125                   | 880                          | 2275                    | 1000 or above               | 1780                      | 9.5                   | ○              | ○                         | -                  | ○                |
| E1-090V-072  | 1829 x 1372              | 2105                   | 110                  | 125                   | 720                          | 2275                    | 1000 or above               | 1985                      | 10.3                  | ○              | ○                         | -                  | ○                |
| E1-100V-057  | 2032 x 1524              | 2310                   | 110                  | 125                   | 570                          | 2275                    | 1350 or above               | 2185                      | 11.1                  | ○              | ○                         | -                  | ○                |
| E1-110V-042  | 2235 x 1676              | 2510                   | 110                  | 125                   | 420                          | 2275                    | 1350 or above               | 2390                      | 12.0                  | ○              | -                         | -                  | ○                |
| E1-120V-027  | 2438 x 1829              | 2715                   | 110                  | 125                   | 270                          | 2275                    | 1700 or above               | 2590                      | 12.8                  | ○              | -                         | -                  | ○                |

# A1

## Manual Type

Screen Materials: **WG** **WF** **BU**

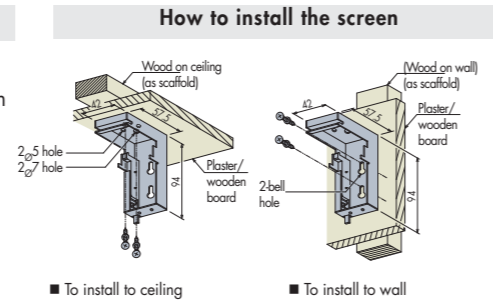
- A simple but modernised aluminum case which goes well with interior designs.
- Tension-adjustment technology always maintains the screen surface in its best state and the newly designed under-bar is an attractive design and colour.
- The lifting and lowering of the screen can be easily and smoothly operated with the Ball-stop and Soft-wind [PAT.]
- By using the optional item extension pole (for P-series), the screen can be anchored to the walls or ceilings even without nails or screws, enabling the installation of rolled-up type screens in rented apartments.



## New Design - Use of Sliding-bracket



The bracket can slide along the rail attached to the screen, and can be installed at any position. This design enables a more compact case than previous models.



## Available in different types of screen materials

Customer may specify the screen materials ranges from Pure Mat II Plus, White Mat & Ultra-beads to meet their particular needs.

## Enhanced Under-bar to further upgrade the screening environment

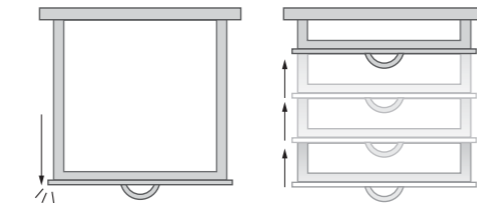
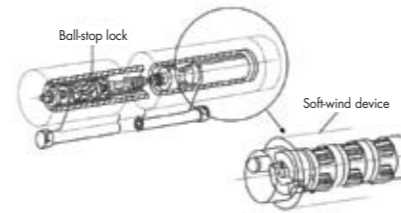
To further enhance the screening effect, the Underbar is now painted in black so that users can concentrate more on the screen.

## Tension-adjustment device



The weight of the screen may unavoidably create wrinkles on the lower side of the screen. A Tension-adjustment device is also installed which can easily adjust the flatness of the screen materials by rotating it in a back and forth direction. This design greatly improves the performance of the screen materials by correcting shrinking conditions however the effect may not be noticeable for certain kinds of wrinkles.

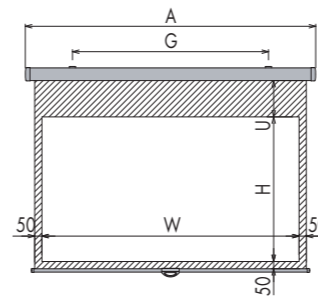
## Ball-stop and Soft-wind device



Lightly pull the screen downwards and it will be locked at your desired position. To return it back to original position will be smooth and simple.

Screen will return as quietly and slowly as the electric-driven type, so there is no worry of any damage caused by over-powered impact.

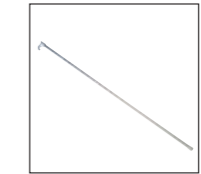
## ■ A1



■ Accessories:  
Bracket



■ Accessories:  
Aluminum bar to pull down the screen



■ Optional item:  
P21-A/P22-A  
Extension pole (can be installed by user itself)



| A1-H Series<br>HDTV Format<br>(16:9 / 1.78:1 Aspect Ratio) | Image Size<br>W x H (mm) | Screen Width<br>A (mm) | Case Width<br>B (mm) | Case Height<br>C (mm) | Upper Black Border<br>U (mm) | Screen Height<br>T (mm) | Mounting Distance<br>G (mm) | Lower Bar Width<br>P (mm) | Screen Weight<br>(kg) | White Mat<br>(WG) | Pure Mat II plus<br>(WF 202) | Ultra Beads<br>(BU) |
|--|--------------------------|------------------------|----------------------|-----------------------|------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------|-------------------|------------------------------|---------------------|
| <b>Standard</b>  |                          |                        |                      |                       |                              |                         |                             |                           |                       |                   |                              |                     |
| A1-080H-064  | 1771 x 996               | 2000                   | 110                  | 138                   | 640                          | 1845                    | 1350 or above               | 1925                      | 9.0                   | ○                 | ○                            | ○                   |
| A1-090H-051  | 1992 x 1121              | 2225                   | 110                  | 138                   | 510                          | 1845                    | 1350 or above               | 2145                      | 9.9                   | ○                 | ○                            | ○                   |
| A1-100H-039  | 2214 x 1245              | 2445                   | 110                  | 138                   | 390                          | 1845                    | 1800 or above               | 2370                      | 10.8                  | ○                 | ○                            | ○                   |
| A1-110H-027  | 2435 x 1370              | 2665                   | 110                  | 138                   | 270                          | 1845                    | 1800 or above               | 2590                      | 11.7                  | ○                 | ○                            | ○                   |
| A1-120H-014  | 2657 x 1494              | 2890                   | 110                  | 138                   | 140                          | 1845                    | 2250 or above               | 2810                      | 12.6                  | ○                 | ○                            | ○                   |
| <b>Long Upper Black Border</b>                             |                          |                        |                      |                       |                              |                         |                             |                           |                       |                   |                              |                     |
| A1-080H-110  | 1771 x 996               | 2000                   | 110                  | 138                   | 1100                         | 2305                    | 1350 or above               | 1925                      | 9.4                   | -                 | ○                            | -                   |
| A1-090H-097  | 1992 x 1121              | 2225                   | 110                  | 138                   | 970                          | 2305                    | 1350 or above               | 2145                      | 10.3                  | -                 | ○                            | -                   |
| A1-100H-085  | 2214 x 1245              | 2445                   | 110                  | 138                   | 850                          | 2305                    | 1800 or above               | 2370                      | 11.2                  | -                 | ○                            | -                   |
| A1-110H-073  | 2435 x 1370              | 2665                   | 110                  | 138                   | 730                          | 2305                    | 1800 or above               | 2590                      | 12.1                  | -                 | ○                            | -                   |
| A1-120H-060  | 2657 x 1494              | 2890                   | 110                  | 138                   | 600                          | 2305                    | 2250 or above               | 2810                      | 13.0                  | -                 | ○                            | -                   |

| A1-V Series<br>Video Format<br>(4:3 / 1.33:1 Aspect Ratio) | Image Size<br>W x H (mm) | Screen Width<br>A (mm) | Case Width<br>B (mm) | Case Height<br>C (mm) | Upper Black Border<br>U (mm) | Screen Height<br>T (mm) | Mounting Distance<br>G (mm) | Lower Bar Width<br>P (mm) | Screen Weight<br>(kg) | White Mat<br>(WG) | Pure Mat II plus<br>(WF 202) | Ultra Beads<br>(BU) |
|--|--------------------------|------------------------|----------------------|-----------------------|------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------|-------------------|------------------------------|---------------------|
| <b>Standard</b>  |                          |                        |                      |                       |                              |                         |                             |                           |                       |                   |                              |                     |
| A1-080V-088  | 1626 x 1219              | 1855                   | 110                  | 138                   | 880                          | 2305                    | 1000 or above               | 1780                      | 9.1                   | ○                 | ○                            | ○                   |
| A1-090V-072  | 1829 x 1372              | 2060                   | 110                  | 138                   | 720                          | 2305                    | 1000 or above               | 1985                      | 9.9                   | ○                 | ○                            | ○                   |
| A1-100V-057  | 2032 x 1524              | 2265                   | 110                  | 138                   | 570                          | 2305                    | 1350 or above               | 2185                      | 10.7                  | ○                 | ○                            | ○                   |
| A1-110V-042  | 2235 x 1676              | 2465                   | 110                  | 138                   | 420                          | 2305                    | 1350 or above               | 2390                      | 11.6                  | ○                 | -                            | ○                   |
| A1-120V-027  | 2438 x 1829              | 2670                   | 110                  | 138                   | 270                          | 2305                    | 1700 or above               | 2590                      | 12.4                  | ○                 | -                            | ○                   |

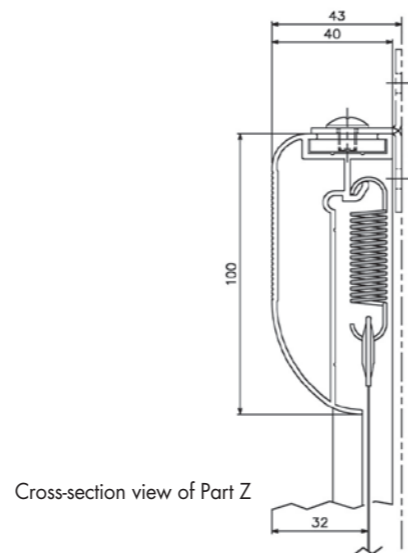
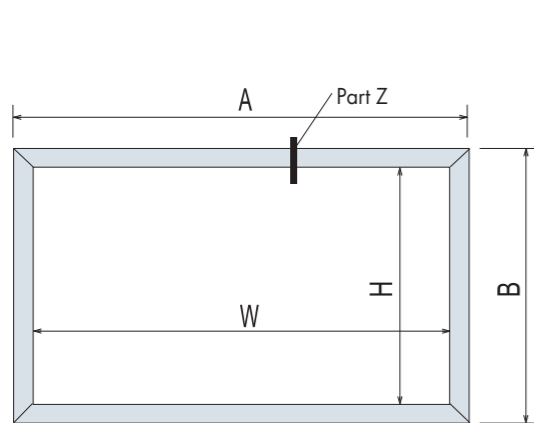
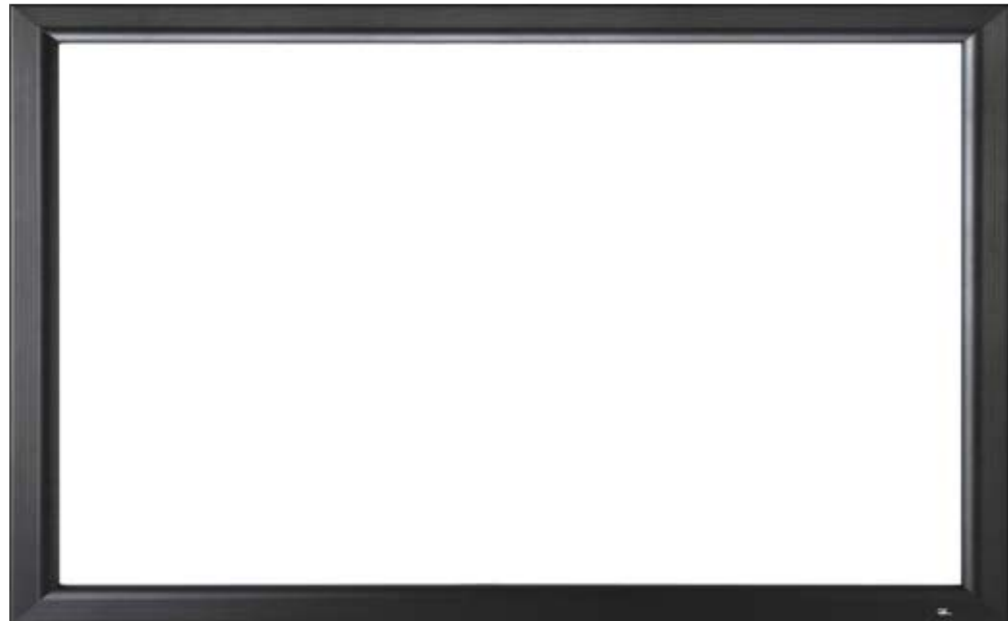
# PA-01 / PA-02

Excellent flatness Screen

**Fixed Type [PAT.]**

Screen Materials: **WG** **WF** **WS** **BU** **PP**

- The spring design creates excellent flatness in all directions and gives the best image quality.
- The frame is made from a "knock-down aluminium frame" which can be easily transported, assembled and maintained.
- Provide with the necessary metal tool for easy fixing to the wall.
- After the two metal joints are fixed vertically on the wall, the horizontal position can be further adjusted (if fixed in a left-right positions, then the screen can be adjusted upwards and downwards).
- **PA-01 series: Classic Fixed Type**  
The screen comes in a matte black finish.
- **PA-02 series: Deluxe Fixed Type**  
The frame with superior velvet finish gives a better appearance of the installation, also provides a perfect black border to the image.



Cross-section view of Part Z



# SOUNDMAT

THX Certified acoustic transparent screen **THX** CERTIFIED

The speakers are illustration only

| PA-H Series<br>HDTV Format<br>(16:9 / 1.78:1 Aspect Ratio) | Image Size<br>W x H (mm) | Screen Width<br>A (mm) | Screen Height<br>T (mm) | Frame Width<br>A (mm) | Screen Weight<br>(kg) | White Mat<br>(WG) | Pure Mat II plus<br>(WF 202) | Sound Mat<br>(WS 102) | Ultra Beads<br>(BU) | Pearl<br>(PP) |
|--|--------------------------|------------------------|-------------------------|-----------------------|-----------------------|-------------------|------------------------------|-----------------------|---------------------|---------------|
| <b>Standard</b>  |                          |                        |                         |                       |                       |                   |                              |                       |                     |               |
| PA-080H-01/PA-080H-02                                      | 1771 x 996               | 1975                   | 1214                    | 43                    | 10.0                  | -                 | ○                            | ○                     | ○                   | ○             |
| PA-090H-01/PA-090H-02                                      | 1992 x 1121              | 2169                   | 1339                    | 43                    | 11.0                  | -                 | ○                            | ○                     | ○                   | ○             |
| PA-100H-01/PA-100H-02                                      | 2214 x 1245              | 2418                   | 1463                    | 43                    | 12.0                  | -                 | ○                            | ○                     | ○                   | ○             |
| PA-110H-01/PA-110H-02                                      | 2435 x 1370              | 2639                   | 1588                    | 43                    | 13.5                  | -                 | ○                            | ○                     | ○                   | ○             |
| PA-120H-01/PA-120H-02                                      | 2657 x 1494              | 2861                   | 1712                    | 43                    | 14.0                  | -                 | ○                            | ○                     | ○                   | ○             |
| PA-130H-01/PA-130H-02                                      | 2878 x 1619              | 3082                   | 1837                    | 43                    | 15.5                  | -                 | ○                            | ○                     | ○                   | -             |
| PA-140H-01/PA-140H-02                                      | 3099 x 1743              | 3303                   | 1961                    | 43                    | 17.0                  | -                 | ○                            | ○                     | ○                   | -             |
| PA-150H-01/PA-150H-02                                      | 3321 x 1868              | 3525                   | 2086                    | 43                    | 18.5                  | -                 | ○                            | ○                     | ○                   | -             |

**NEW**

| PA-L Series<br>Cinemascope Format<br>(2.35:1 Aspect Ratio) | Image Size<br>W x H (mm) | Screen Width<br>A (mm) | Screen Height<br>T (mm) | Frame Width<br>(mm) | Screen Weight<br>(kg) | White Mat<br>(WG) | Pure Mat II plus<br>(WF 202) | Sound Mat<br>(WS 102) | Ultra Beads<br>(BU) | Pearl<br>(PP) |
|--|--------------------------|------------------------|-------------------------|---------------------|-----------------------|-------------------|------------------------------|-----------------------|---------------------|---------------|
| <b>Standard</b>  |                          |                        |                         |                     |                       |                   |                              |                       |                     |               |
| PA-100L-01/PA-100L-02                                      | 2337 x 995               | 2539                   | 1211                    | 43                  | 9.8                   | -                 | ○                            | ○                     | -                   | -             |
| PA-110L-01/PA-110L-02                                      | 2571 x 1094              | 2775                   | 1312                    | 43                  | 10.4                  | -                 | ○                            | ○                     | -                   | -             |
| PA-120L-01/PA-120L-02                                      | 2805 x 1193              | 3009                   | 1411                    | 43                  | 12.1                  | -                 | ○                            | ○                     | -                   | -             |
| PA-130L-01/PA-130L-02                                      | 3038 x 1294              | 3242                   | 1512                    | 43                  | 12.7                  | -                 | ○                            | ○                     | -                   | -             |
| PA-140L-01/PA-140L-02                                      | 3272 x 1393              | 3476                   | 1611                    | 43                  | 13.4                  | -                 | ○                            | ○                     | -                   | -             |
| PA-150L-01/PA-150L-02                                      | 3506 x 1491              | 3710                   | 1709                    | 43                  | 15.4                  | -                 | ○                            | ○                     | -                   | -             |

| PA-V Series<br>Video Format<br>(4:3 / 1.33:1 Aspect Ratio) | Image Size<br>W x H (mm) | Screen Width<br>A (mm) | Screen Height<br>T (mm) | Frame Width<br>(mm) | Screen Weight<br>(kg) | White Mat<br>(WG) | Pure Mat II plus<br>(WF 202) | Sound Mat<br>(WS 102) | Ultra Beads<br>(BU) | Pearl<br>(PP) |
|--|--------------------------|------------------------|-------------------------|---------------------|-----------------------|-------------------|------------------------------|-----------------------|---------------------|---------------|
| <b>Standard</b>  |                          |                        |                         |                     |                       |                   |                              |                       |                     |               |
| PA-080V-01/PA-080V-02                                      | 1626 x 1219              | 1830                   | 1437                    | 43                  | 9.5                   | ○                 | ○                            | -                     | ○                   | ○             |
| PA-090V-01/PA-090V-02                                      | 1829 x 1372              | 2033                   | 1590                    | 43                  | 11.0                  | ○                 | ○                            | -                     | ○                   | ○             |
| PA-100V-01/PA-100V-02                                      | 2032 x 1524              | 2236                   | 1742                    | 43                  | 12.0                  | ○                 | ○                            | -                     | ○                   | ○             |
| PA-110V-01/PA-110V-02                                      | 2235 x 1676              | 2439                   | 1894                    | 43                  | 13.5                  | ○                 | ○                            | -                     | ○                   | ○             |
| PA-120V-01/PA-120V-02                                      | 2438 x 1829              | 2642                   | 2047                    | 43                  | 14.0                  | ○                 | ○                            | -                     | ○                   | -             |
| PA-130V-01/PA-130V-02                                      | 2642 x 1981              | 2846                   | 2199                    | 43                  | 16.0                  | ○                 | ○                            | -                     | ○                   | -             |
| PA-140V-01/PA-140V-02                                      | 2845 x 2134              | 3049                   | 2352                    | 43                  | 18.0                  | ○                 | ○                            | -                     | ○                   | -             |
| PA-150V-01/PA-150V-02                                      | 3048 x 2286              | 3252                   | 2504                    | 43                  | 19.5                  | ○                 | ○                            | -                     | ○                   | -             |

# G1/G1-T

Stylish and Functional

## Freestanding Type

Screen Materials: **WF**

- Installation becomes so simple with the patented mechanism. It is simply completed by grabbing the handle upward and then loses the grip. The height level of the screen is adjustable.
- Special design by which high stability can be achieved even without supporting legs. This allows the screen to be placed closely along the wall without any waste of space.
- Highly portable which can be applied to home use, business purpose and educational use.
- Pure Mat II plus is used for G1 screen. With increased diffusion and free of Moiré, this is the most compatible surface type for high-end FULLHD setting.
- Four case colors are available for matching the design of the venue.
- For G1-T type, new infrared and sound permeable material is being used (PAT.PEND.) at the screen lower area. This makes the placing of audio equipment (amplifier, DVD player, speakers, etc.) at the back possible. Audio quality and wiring work are consequently improved.
- The available screen size ratio is 16:9 (HD).



### Color Variation

Four case colors are available for matching the interior design of the venue.  
Infrared and sound permeable mesh material [G1 Through Black]

Sliver

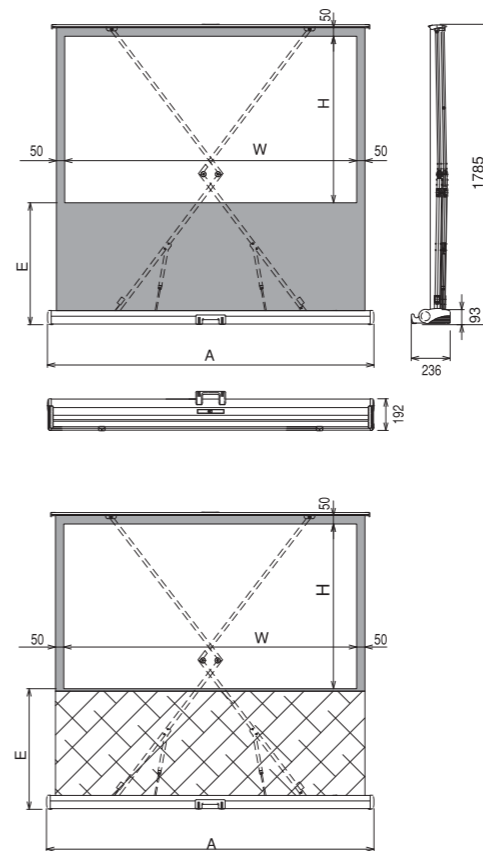
Gold

White

Red



### ■ G1/G1-T



| Model                 | Image Size WxH(mm) | Width A(mm) | Height (mm) | Lower Masking E(mm) | Weight (kg) | Pure Mat II Plus WF 202 |
|-----------------------|--------------------|-------------|-------------|---------------------|-------------|-------------------------|
| G1/G1-T HD(16:9)      |                    |             |             |                     |             |                         |
| <b>G1-080/G1-080T</b> | 1771 x 996         | 1980        | 1785        | 719                 | 14.5        | ○                       |
| <b>G1-090/G1-090T</b> | 1992 x 1121        | 2201        | 1785        | 594                 | 15.5        | ○                       |
| <b>G1-100/G1-100T</b> | 2214 x 1245        | 2423        | 1785        | 470                 | 16.7        | ○                       |

## Improved handle and cover design



You can set up the screen in one step.



The handle and cover are built at the top of the screen case so that you can carry it easily and extend the screen smoothly.

## Stable design



The advanced highly stable two-point supporting system makes the screen set-up smoothly. You can fix the screen at any position and height as you like with one hand. No complicated operation procedures/steps anymore!

## Advanced design and space-saving



A unique free-leg modern case design was adopted. With high self-supporting stability, just stand the screen and stable set-up can be achieved. Also, it is possible to place the case along side wall and hence, adding to a point of space-saving.

## High quality image

With our screen, a sharper and clearer image can be produced naturally. Moreover, the highly appraised "Pure Mat II Plus" due to high image quality were used in production. The Carrier Vision G1 Series must be able to fulfill every amateur users' need of convenience and, professional users' need of high quality image can be satisfied.

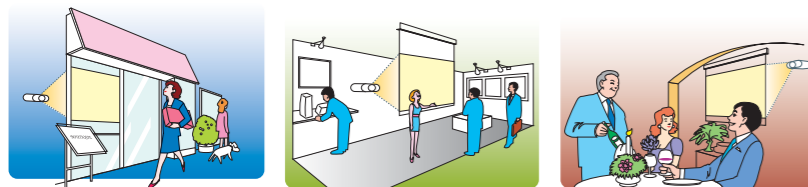
# IE/IM

INFOSHOT

## Rear Projection Type

- New visual experience which sets a new record in the screen world
- Creative product to enhance retail point advertisements
- Innovative ideas and advanced technology to realise the superb image effects and easy use
- Breaks through widely accepted ideas and sets a new stage in the screen world

## "INFOSHOT" takes you to an innovative and exciting world



- 1) As a window display or interactive advertisement**  
Unlike other conventional fixed type screens, INFOSHOT may be put back into the storage case during the day and only be used for displaying advertisements when the shop closes.
- 2) As a dynamic display in exhibitions**  
The screen may be rolled up and hidden at anytime without affecting normal business activities. When in use, it can provide an "air-movie" effect - a breakthrough in space usage.
- 3) To create ambience for evening events**  
INFOSHOT can be used for broadcasting information or entertainment programs creating a new visual sensation.

## Realising the air-movie effect

We are the first manufacturer to adopt highly transparent plastic film in the screen, making the screen look like it is floating in the air. This helps to achieve an air-movie effect.

## Screen can be put back in to case when not in use

When not in use, the screen can be rolled back to the storage case to ensure perfect use of space.

## Two modes to choose from

Available in both Manual Type and Electric Type with their respective features. You may select a model based on your requirement and budget.

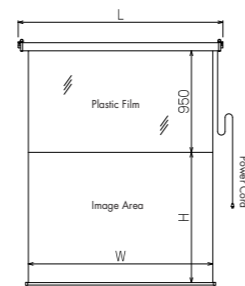
| IE Series Video Format (4:3 / 1.33:1 Aspect Ratio) | Image Size W x H (mm) | Screen Width L (mm) | Screen Weight (kg) | Remote Control Type | Plastic Film (PW) |
|--|-----------------------|---------------------|--------------------|---------------------|-------------------|
| <b>Electric Type</b>                               |                       |                     |                    |                     |                   |
| IE-080V  | 1726 x 1219           | 1916                | 8.0                | Intra-red           | ○                 |
| IE-100V  | 2132 x 1524           | 2322                | 9.5                | Intra-red           | ○                 |
| <b>Manual Type</b>                                 |                       |                     |                    |                     |                   |
| IM-080V  | 1726 x 1219           | 1874                | 6.8                | -                   | ○                 |
| IM-100V  | 2132 x 1524           | 2280                | 8.7                | -                   | ○                 |

| IE Series HDTV Format (16:9 / 1.78:1 Aspect Ratio) | Image Size W x H (mm) | Screen Width L (mm) | Screen Weight (kg) | Remote Control Type | Plastic Film (PW) |
|--|-----------------------|---------------------|--------------------|---------------------|-------------------|
| <b>Electric Type</b>                               |                       |                     |                    |                     |                   |
| IE-080H  | 1871 x 996            | 2061                | 8.4                | Intra-red           | ○                 |
| IE-100H  | 2314 x 1245           | 2504                | 10.5               | Intra-red           | ○                 |
| <b>Manual Type</b>                                 |                       |                     |                    |                     |                   |
| IM-080H  | 1871 x 996            | 2019                | 7.4                | -                   | ○                 |
| IM-100H  | 2314 x 1245           | 2462                | 9.5                | -                   | ○                 |

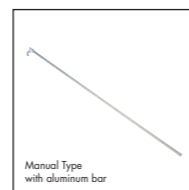
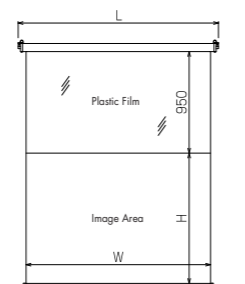
Screen Materials: **PW** Available material: HL98W(plastic film portion)/PW(image area)



Picture shows the real projected image.



Electric Type with an Infrared remote control



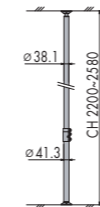
Manual Type with aluminum bar

# P-Series

## P1

### Extension Pole

- The extension pole enables easy fixing of the small-sized projector and screen without using any nails or anchor-board onto the ceiling or wall - which is especially good for using in rented apartments etc.
- For households with small children, it is also possible to nail the pole onto the wall to further stabilise it.
- By using various kinds of brackets, users may fix the screen by themselves without the need to hire outside contractors.
- Even for uneven ceiling heights, by using the slide along the pipe, the screen can be easily fixed to the desired height.
- In case the ceiling height is outside the range of the products, custom-order is also possible.



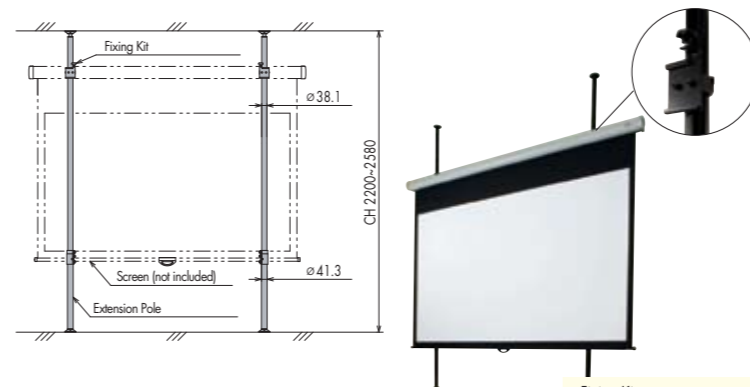
Fixing Kit P2-A (for screen)

| Model                 | Color  | Applicable Ceiling Height (mm) | Weight (kg) |
|-----------------------|--------|--------------------------------|-------------|
| <b>Extension Pole</b> |        |                                |             |
| P1                    | Black  | 2200~2580                      | 1.6         |
| P1S                   | Silver | 2200~2580                      | 1.6         |

## P2

### Screen Fixing Kit Set

- The bracket specially designed for fixing the screen.
- The bracket helps to fix the screen at the desired height.
- The bracket can be fixed to the extension pole by a hexagon-screwdriver.
- When placing the custom-made pole, please also order the P2-A which is not included in the package.



Fixing Kit E1 / A1 Up to 120 size of each model.

| Model                        | Color  | Applicable Ceiling Height (mm) | Weight (kg) | Components  |
|------------------------------|--------|--------------------------------|-------------|---|
| <b>Screen Fixing Kit Set</b> |        |                                |             |   |
| P21-A                        | Black  | 2200~2580                      | 3.8         | P1 Extension Pole (2 pieces)<br>Screen-fixing Kit (1-pair)  |
| P22-A                        | Silver | 2200~2580                      | 3.8         | P1S Extension Pole (2 pieces)<br>Screen-fixing Kit (1-pair) |

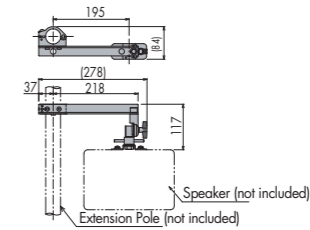
| Model                    | Color | Weight (kg) |
|--------------------------|-------|-------------|
| <b>Screen-fixing Kit</b> |       |             |
| P2-A(pair)               | Black | 0.6         |



## P3

### Speaker-suspension Kit Set

- Bracket is designed for hanging down the speakers from above.
- Speakers can be set at the desired position by adjusting the heights of the bracket.
- Brackets come in a pair to be placed both sides, and goes well with the interior design of the house.
- The bracket can be fixed to the extension pole by a hexagon-screwdriver.
- Three cable-holders are attached to each bracket for organising the speaker cables.
- In case user needs to order a custom-made pole, please order the P3-A which is not included in the package.



Accessory Cable-holder

| Model                              | Color  | Applicable Ceiling Height (mm) | Weight (kg) | Components   | Accessory               |
|------------------------------------|--------|--------------------------------|-------------|--|-------------------------|
| <b>Speakers Suspension Kit Set</b> |        |                                |             |  |                         |
| P31-A                              | Black  | 2200~2580                      | 4.6         | P1 extension pole (2 pieces)<br>Speaker-suspension Kit (1-pair)  | Cable-holder (6 pieces) |
| P32-A                              | Silver | 2200~2580                      | 4.6         | P1S extension pole (2 pieces)<br>Speaker-suspension Kit (1-pair) | Cable-holder (6 pieces) |

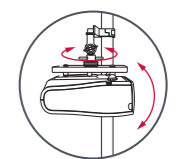
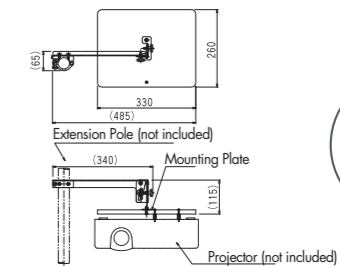
| Model                     | Color | Weight (kg) |
|---------------------------|-------|-------------|
| <b>Speaker-fixing Kit</b> |       |             |
| P3-A(pair)                | Black | 1.4         |

## P4

### Projector-suspension Kit Set

- Convenient for fixing a small projector without the need to hire outside contractor.
- Projector can be fixed to the desired position by adjusting the height of the bracket.
- The projection angle of the bracket can be finely adjusted to achieve the optimal screening effect.
- The bracket can be fixed to the extension pole by a hexagon-screwdriver.
- When placing the custom-made pole, please also order the P4-C/D which is not included in the package.

#### ■ P4-C/D



| Model                               | Color  | Applicable Ceiling Height (mm) | Weight (kg) | Components   |
|-------------------------------------|--------|--------------------------------|-------------|--|
| <b>Projector-suspension Kit Set</b> |        |                                |             |  |
| P41-C/P41-D                         | Black  | 2200~2580                      | 3.2         | P1 Extension pole (1 piece)<br>Projector-suspension kit (1 piece)  |
| P42-C/P42-D                         | Silver | 2200~2580                      | 3.2         | P1S Extension Pole (1 piece)<br>Projector-suspension Kit (1 piece) |

| Model                       | Color | Weight (kg) | Tolerable weight N(kgf) | Applicable projector type   |
|-----------------------------|-------|-------------|-------------------------|---|
| <b>Projector-fixing Kit</b> |       |             |                         |   |
| P4-C                        | Black | 1.6         | 49(5)                   | P4-C<br>Panasonic TH-AE200,300,500,700,800<br>Mitsubishi VPHC900J, VPHC100J<br>Sanyo PJ-T1100J  |
| P4-D                        | Black | 1.6         | 49(5)                   | P4-D<br>Panasonic TH-A1100<br>Mitsubishi VPHC3100, VPHC1100<br>Hitachi PJ-TX200J<br>EPSON EMP-TW20<br>Optoma HD81, HD72i<br>SHARP XVZ3000 |