



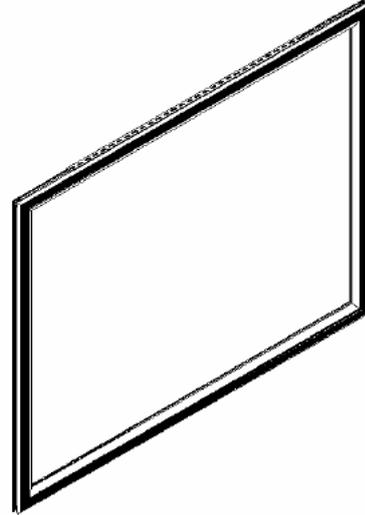
# Frame Screen

## INSTALLATION/INSTRUCTION MANUAL

### To our Users:

If you do not have the tools or are unaccustomed to the installation, or you are not sure about whether any base exists on ceiling or wall, or when installing this product on a concrete wall, ask the professional installer.

- About the professional installer, ask your dealer or us.
- Professional installers that have contracted for the installation should submit this manual together with the instruction manual.



## PA

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■ Ensure that you read this installation and instruction manual carefully and use the screen correctly. Be sure to retain the manuals for future reference.

## Safety Precautions

### Please strictly comply with the following for safety

This instruction manual is intended to prevent any danger to the user and the third parties, or any damage to the property. The following indicators are to remind users to strictly observe the instructions.

Throughout our explanation, the possible damage which may be caused by any negligence or disregard of the safety precaution is classified to different levels according to the severity.



#### **WARNING**

This icon warns that it may cause death or casualty if not following the instruction closely



#### **CAUTION**

This icon indicates that it may cause injury or damage to the property.

For the precautions we recommend users to notice, we explain by using the following different categories (The following are just examples)



This icon suggests that the action is strictly prohibited.



This icon suggests that this is the necessary procedure to follow.



#### **WARNING**



##### **Do not assemble the screen near the fire.**

It may cause fire and is very dangerous.



##### **Confirm the strength of installation place for the long use of the screen.**

If the strength is not enough, the screen may fall off and cause harm.



##### **Do not assemble the screen by one person.**

Assemble the screen by two or more people. It might fall off causing damages and harms.



##### **Install the screen horizontally flat.**

Unstable installation may cause fall off or damages.



##### **Make sure all screws are tightly tightened.**

The loose screws cannot sustain the load, and might cause fall off, causing damages and harms.



#### **CAUTION**



##### **Do not lean against the corner of the screen frame.**

It may cause fall off, causing damages and harms.



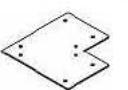
##### **Do not use the sharp cutlery or pointed metal near the screen.**

It might damage the screen fabric

# Accessories

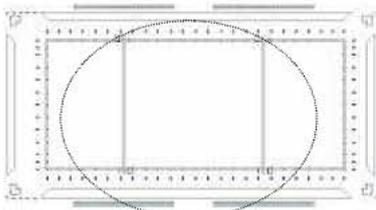
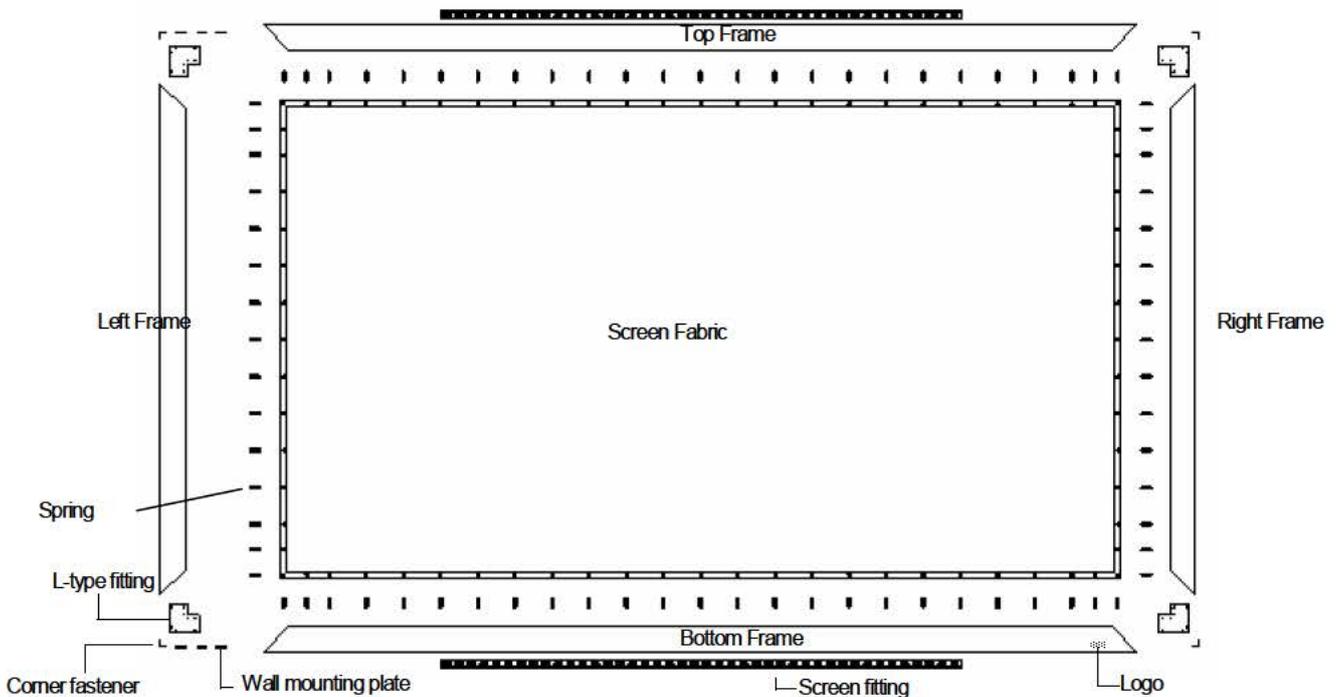
( ) ... The quantity for 150L

※ ... Refer to the below chart.

 Frames (Top & bottom)×2 <small>The one with OS logo is the bottom frame.</small>	 Frames (Left & Right) ×2	 Screen Fabric×1	 Screen fittings×2(4)
 Spring setting screwdriver×1	 L-type fitting×4	 Corner fastener×4	 Wall mounting plate※
 Spring※	 Screw A×48(64)	 Screw B※	 Screw C※
<b>Support Parts ( Only for 150L)</b>			
 Screw D×8	 Support bracket×4	 Support frame×2	 Support plate×4

※Parts Quantity Chart (The number of springs is subject to the size of the screen. Spare quantity is included.)

	PA-100V · 120V 100H · 110H · 120H 100L · 110L	PA-150V 130H · 140H · 150H 120L · 130L · 140L	PA-150L
Wall mounting plate	4	6	8
Spring	56~88		
Screw B	4	6	8
Screw C	8	10	12



Screen support frames are mounted as per left drawing for 150L.

## **Cautions in installation**

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Do not install the screen to such places to avoid mal-functioning and troubles.

Place where vibration and impact might apply.      Place where heat, steam, and oil or smoke generates.  
Place where wind of heating apparatus comes.

Please check the structure and material of the mounting place before installation

Make sure to put a blanket or soft cloth before installation to avoid any damage to the product or the floor.

Make sure to tighten the screws.

Pay attention to the environment for safety in installation.

Make sure the screen is assembled horizontally.

Be careful in handling as the velvet type of frames easily generates a crack, a dent, etc



### **CAUTION**

In installing the screen, make sure that the wall or ceiling is strong enough to keep the screen weight for long time. Reinforcement is necessary to mount the screen on gypsum or particleboard. If the strength is not enough, it may cause the fall off of the screen.

## **Cautions in handling**

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The surface of the screen is specially processed to enhance projection image. The contamination or damage may result in poor projection image. Pay close attention to the followings when handling this product.

Do not touch the screen surface.

Do not draw anything on the screen surface.

Do not rub or scratch the surface with anything hard.

Gently wipe the dust off the surface with the soft dry cloth or remove with a soft brush.



### **CAUTION**

Never use a moist cloth or chemicals such as benzene, thinner etc.  
It may cause the poor projection image

The screen surface may have an odor at first. Please ventilate enough by opening the window. Any such odor will gradually fade. When the odor is strong, please keep the screen pulled out, even not in use.

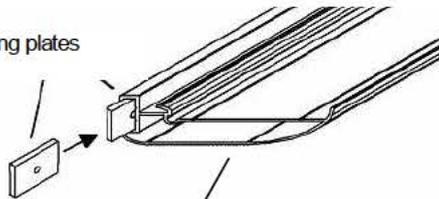
## Assembly Guideline

Prepare beforehand:

- A protective sheet (to protect the surface)
- work gloves
- Phillips head screwdriver

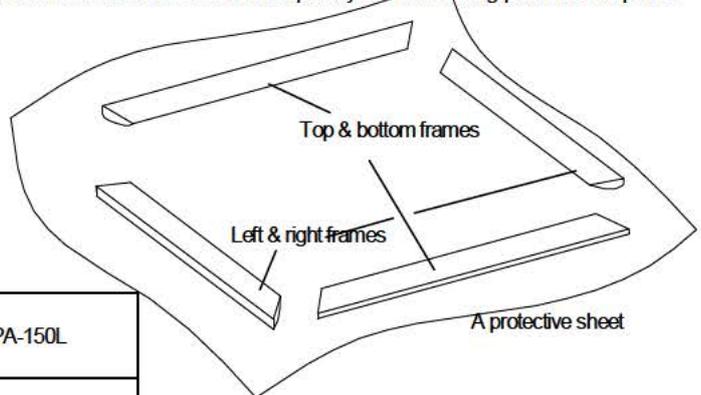
- 1) Place the screen frames (top & bottom and left & right) on the protective sheet for work so that the front sides of the frames face downward. Then put two wall mounting plates in the slots of the top and bottom screen frames each. The quantity of the mounting plates are as per the below chart. \*The frame with OS logo is the bottom frame.

Wall mounting plates

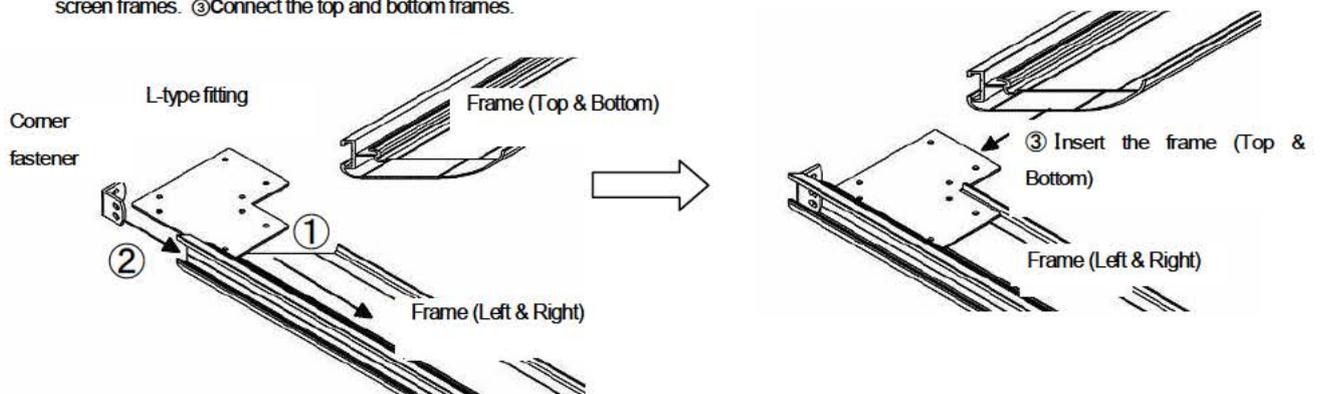


Top & bottom frame

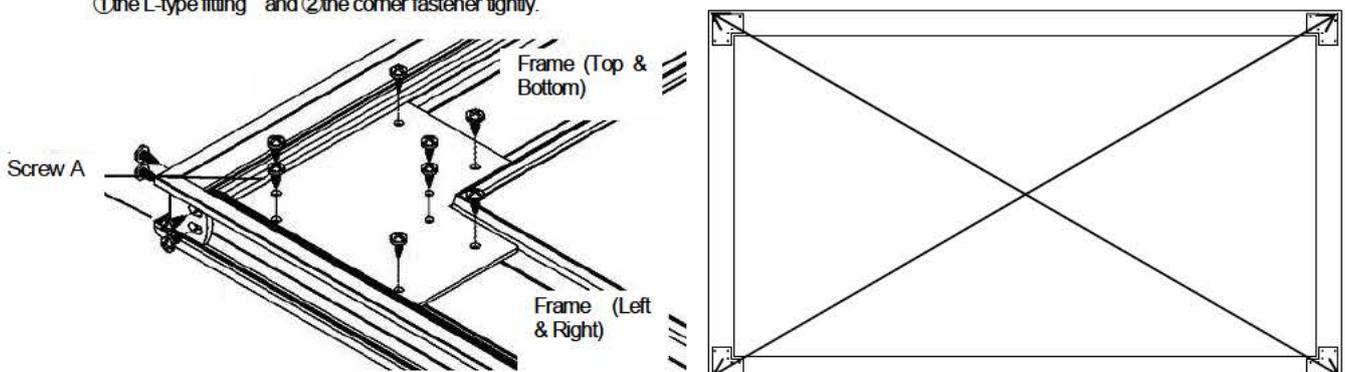
PA-100V · 120V 100H · 110H · 120H 100L · 110L	PA-150V 130H · 140H · 150H 120L · 130L · 140L	PA-150L
2 each top & bottom	3 each top & bottom	4 each top & bottom



- 2) ① Attach the L-type fittings to the corners on the left and right frames. ② Then attach the corner fasteners to the corners on left and right the screen frames. ③ Connect the top and bottom frames.



- 3) Slightly fix the L-type fitting and the corner fastener with screws A, checking the match of the frames. Then adjust the diagonal difference, and fix ① the L-type fitting and ② the corner fastener tightly.



- ※ Set screws and slightly fix at all 4 corners temporarily first before tightening all screws.

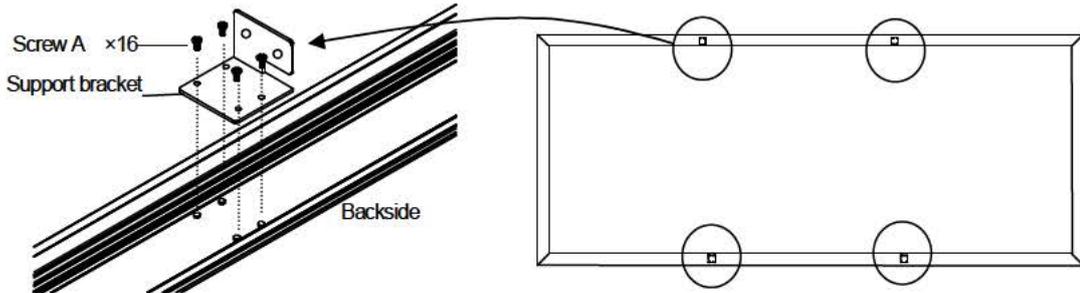


Check the matching with slight fixing of screws first. Otherwise, there are possibilities for frame bending or the screw no matching the holes

## 2. Mounting the support frames and screen fabric (only for PA-150L)

### 1) Mounting the support bracket (total 4 places)

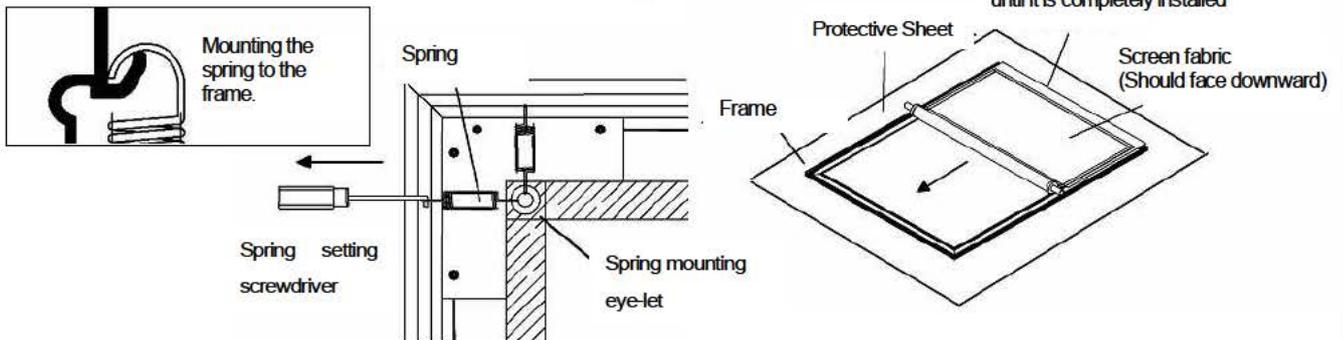
※Do not mount support frames yet.



### 2) Mounting the screen fabric (left and right frames only)

※When opening the screen fabric, be careful not to make any crease or wrinkle. It may cause bad effects to the projection image

2)-1 Place the screen fabric over the assembled frames. Tear the paper cover at the corner, and attach the springs to the corners of the screen frame to the screen mounting holes of the screen fabric. Then, slowly open the screen fabric toward the arrow direction shown in the drawing.

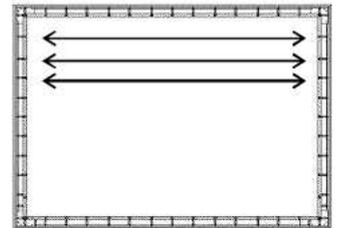


Protective cover \* Do not take off until it is completely installed

2)-2 When the screen fabric is totally opened, tear the corners of the protective cover, and attach the two springs to the corners of the screen frame and the screen mounting eye-lets of the screen fabric.

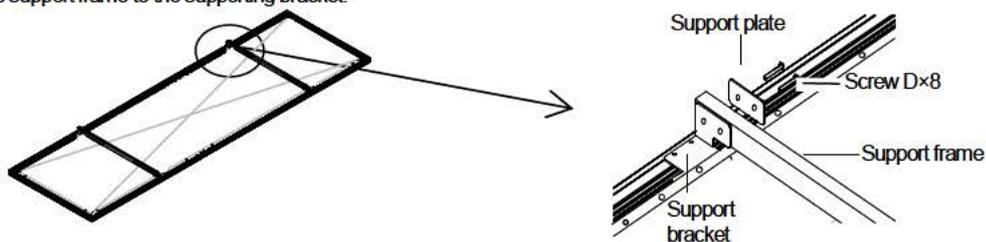
※Do not fix the top and bottom frames yet.

※Attach to the eye-let which faces each other simultaneously as per right drawing.



### 3) Mounting Support frames

Mount the support frame to the supporting bracket.



### 4) Mounting the screen fabric (top and bottom)

The screen fabric should be completely fixed with the springs to the upper and lower frames as per the instructions mentioned in 2)-2.

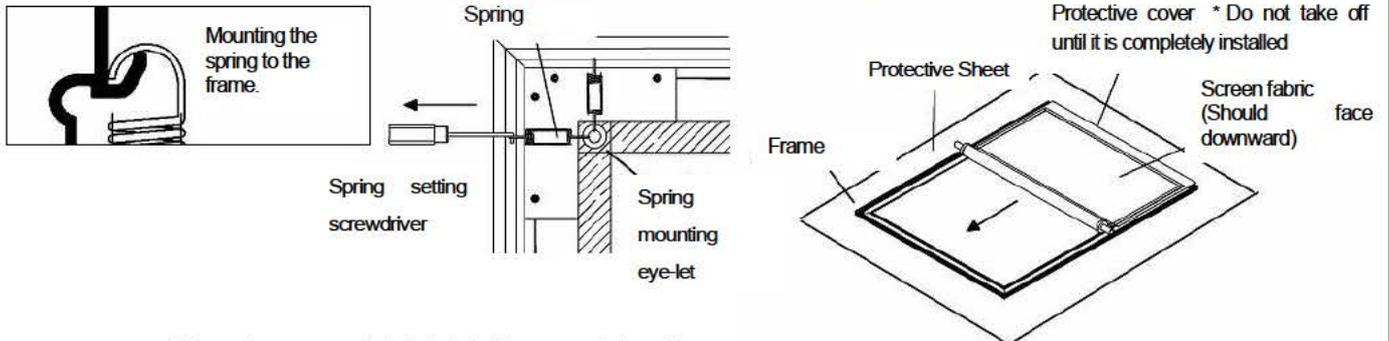
### 3. Mounting the screen fabric (except PA-150L)



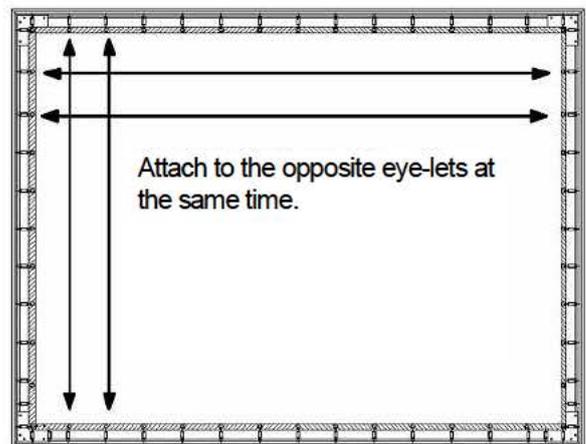
#### CAUTION

When opening the screen fabric, be careful not to make any crease or wrinkle. It may cause bad effects to the projection image.

- 1) Place the screen fabric over the assembled frames. Tear the paper cover at the corner, and attach the springs to the corners of the screen frame to the screen mounting holes of the screen fabric. Then, slowly



- 2) When the screen fabric is totally opened, tear the corners of the protective cover, and attach the two springs to the corners of the screen frame and the screen mounting eye-lets of the screen fabric
- 3) Attach the remaining springs to the eye-lets which face each other on the top and bottom frames and the left and right frames at the same time.



## Installation Guideline



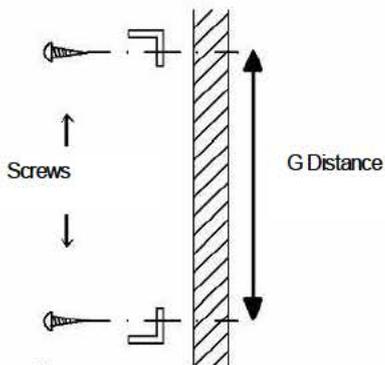
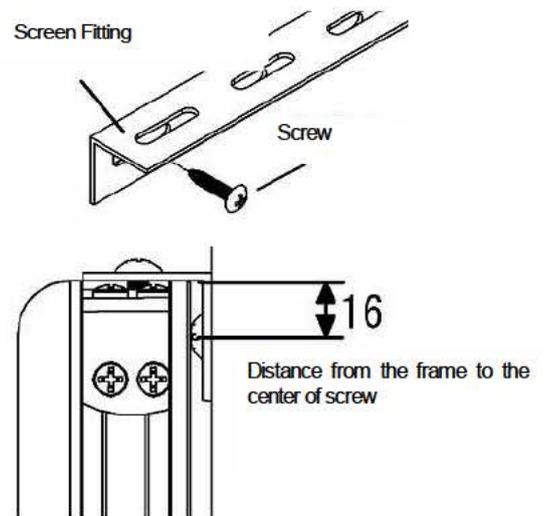
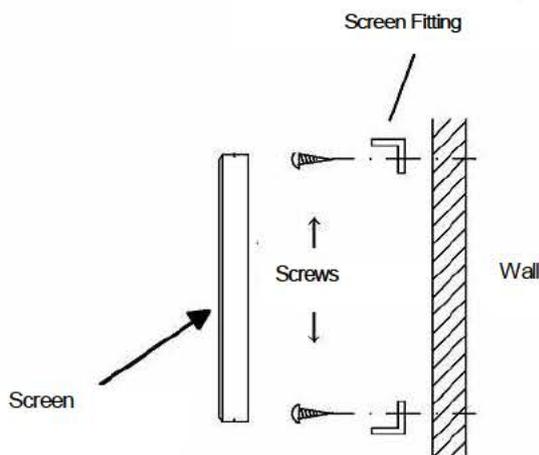
### CAUTION

In installing the screen, make sure that the wall or ceiling is strong enough to keep the screen weight for long time. If the strength is not enough, it may cause the fall off of the screen.

To our users:

When the attached screws are not usable according to the walls, prepare the proper screws or anchors (for the concrete wall), which match the material of the wall and the screen mounting brackets.

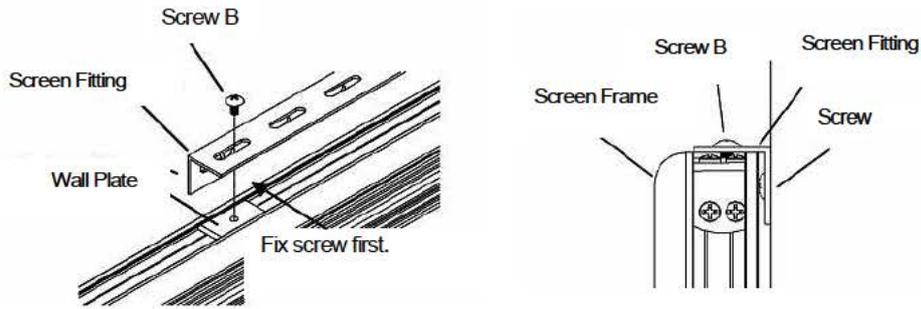
- 1) Set the fittings for screen (top and bottom) onto the wall face with the proper screws. Ensure the fittings for screen are horizontal. (If screw C is to be used, please refer to the quantity on P9.)  
 ※ If there is no space between the ceiling face and the upper side of the screen, refer to next page



G (mm)	100V	120V	130V	140V	150V
	1696				
100H	110H	120H	130H	140H	150H
	1417	1542	1666	1791	1915
100L	110L	120L	130L	140L	150L
	1167	1266	1365	1466	1565

- 2) Remove the protective sheet of the screen fabric. Never touch the screen surface.
- 3) Set the center of the screen frame (top and bottom) and the screen fitting. Then set the wall mounting plate to the left and right hole of the fitting for screen.

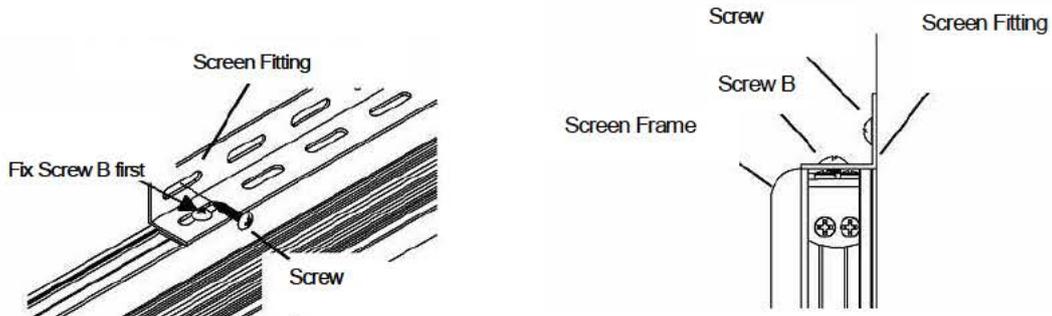
4) Fix the fittings for screen and the wall mounting plate with Screw B.



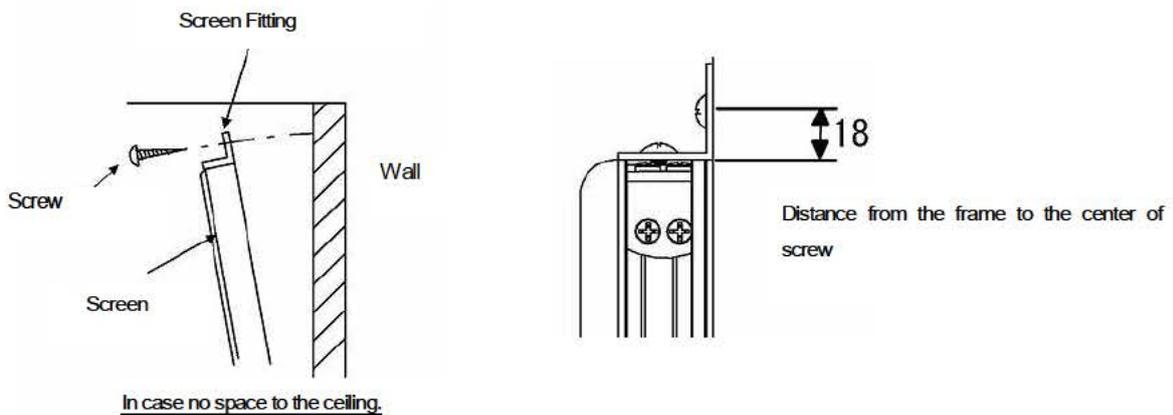
	PA-100L · 110L 100H · 110H · 120H 100V · 120V	PA-120L · 130L · 140L 130H · 140H · 150H 150V	PA-150L
Screw C	4pcs ea Upper & Bottom	5pcs ea Upper & Bottom	6pcs ea Upper & Bottom
Screw B	2pcs ea Upper & Bottom	3pcs ea Upper & Bottom	4pcs ea Upper & Bottom

**If there is no space between the ceiling face and and the upper side of the screen**

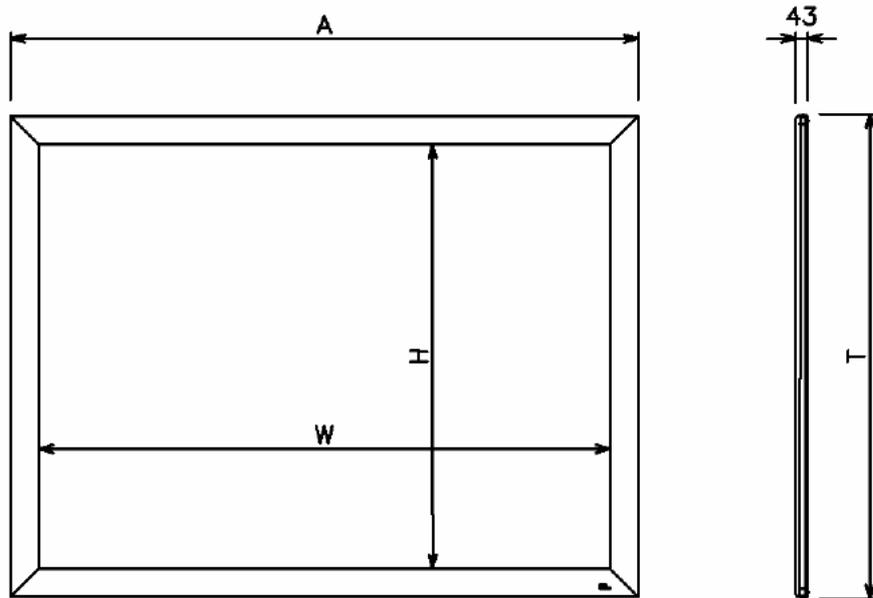
- 1) Remove the protective sheet of the screen fabric. Never touch the screen surface
- 2) Set the center of the screen frame (top and bottom) and the screen fitting. Then set the wall mounting plate to the left and right hole of the fitting for screen and fix with screws B



3) Set the screen with fitting to the wall with screws.



## Specifications



Model	Size W×H (mm)	Width A (mm)	Height T (mm)	Weight (kg)
PA-100V-01(02)※	2032×1524	2236	1739	12.0
PA-120V-01(02)※	2438×1829	2642	2044	14.0
PA-150V-01(02)※	3048×2286	3252	2501	19.5
PA-100H-01(02)※	2214×1245	2418	1460	12.0
PA-110H-01(02)※	2435×1370	2639	1585	13.5
PA-120H-01(02)※	2657×1494	2861	1709	14.0
PA-130H-01(02)※	2878×1619	3082	1834	15.5
PA-140H-01(02)※	3099×1743	3303	1958	17.0
PA-150H-01(02)※	3321×1868	3525	2083	18.5
PA-100L-01(02)※	2337×995	2541	1210	9.8
PA-110L-02※	2571×1094	2775	1309	10.4
PA-120L-02※	2805×1193	3009	1408	12.1
PA-130L-02※	3038×1294	3242	1509	12.7
PA-140L-02※	3272×1393	3476	1608	13.4
PA-150L-02※	3506×1491	3710	1706	15.4

Specifications and design may change without notice.

※ -01 Black Aluminum Frame, -02 Black Velvet Frame

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