## Installation Instructions Projector Mount Bracket

Model No. ET-PKD120B


* The figure above shows a combination of this product and the separately sold ET-PKD120S ceiling mount bracket (for low ceilings).
* Unless specified otherwise, figures in these instructions show a combination with the ceiling mount bracket (for low ceilings). The installation method is also the same as that of the ceiling mount bracket (for high ceilings).

Thank you for purchasing this Panasonic product.

- To customers

The "Installation Instructions" is intended for use by installation personnel. Be sure to employ certified personnel to perform the installation
After installation, have the installation personnel return these "Installation Instructions" to you, and save it for future use.
When moving or removing the projector, give this manual to the certified personnel and have them perform the procedure.

- To installation personnel

Read the "Installation Instructions" thoroughly and then perform the operation correctly and safely.
Be sure to read through the section entitled "Read this first!" (page 3) before proceeding with the installation.
After installation, return these "Installation Instructions" to the customer.

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## Read this first!

## WARNING:

Installation work should only be carried out by the certified personnel.

- If this product is not installed correctly, serious accidents may result.
- Follow the instructions specified in "Installation" of this manual, and perform secure installation.

Do not install in a place which is not strong enough.

- If the installation location is not strong enough, the ceiling bracket may fall down and an injury may result.

Make sure that your footing is safe and secure during installation.

- If your footing is not secure, you may fall down or drop the bracket, and an injury may result.

Make sure that the ceiling bracket is installed correctly in accordance with the structure and materials used at the installation location.

- If a mistake is made in the installation procedure, the ceiling bracket may fall down and an injury may result.

Do not loosen or remove the ceiling mount bracket screws or bolts unnecessarily.

- The projector may fall down and injury may result.

Do not set up the projector in humid or dusty places or in places where the projector may come into contact with oily smoke or steam.

- Using the projector under such conditions may result in fire, electric shocks or plastic deterioration. The plastic deterioration may cause the falling down of the projector which is mounted in the ceiling.

Do not allow children to reach the attached metal fittings and screws.

- The attached metal fittings and screws can cause personal injury if swallowed.
- If swallowed, seek medical advice immediately.

Mounting must be carried out by two or more persons.

- Including the projector, this fixture weighs at least 20 kg (44.1 lbs). Make sure that mounting is carried out by two or more persons.
Do not disassemble or modify the ceiling mount bracket.
- The projector may be damaged or fall, causing injury.


## CAUTION:

Install only the designated projector.
Install only using the designated method.

- Otherwise, the projector may fall and become damaged, and cause injury.

Do not install the ceiling bracket in a place which may impede projector ventilation.

- If this is not observed, fire may result.

Do not hang from or hang objects on the projector or ceiling mount bracket.

- The projector may fall and cause injury.

When installing, always use the supplied components.

- Otherwise, this may cause damaged projector to fall and cause injury.

Install the mounting screws and power cable in such a way that they will not make contact with the inside parts of the ceiling.

- Electric shocks may result from contact with any metal objects inside the ceiling.
- Panasonic disclaims all liability for any accidents or any damage caused by the installation of the ceiling mount bracket using methods that are not described in these Installation Instructions or methods that do not use the parts specified in these Instructions.
- If products are no longer being used, they should be dismantled and removed by the certified personnel as soon as possible.


## Product description

This is a ceiling mount bracket for installing projectors.

## - Applicable ceiling mount brackets

ET-PKD120S / ET-PKD120H

## ■ Structural components



- Store small parts in an appropriate manner, and keep them away from small children.
- Tightening torque for the screws are M6: $4 \pm 0.5 \mathrm{~N} \cdot \mathrm{~m}, \mathrm{M} 8: 10 \pm 1 \mathrm{~N} \cdot \mathrm{~m}$.
- When tightening up the screws, use a tool such as a torque screwdriver or torque wrench. Do not use electric screwdrivers or impact screwdrivers.


## Attention

- Dispose of the packaging materials properly after taking the product out of it.


## Standard installation dimensions

The dimensional relationship between the screen and the projector is shown below.
Establish the dimensions after assessing the area possible for installation.

## ■ Ceiling mount brackets: ET-PKD120S / ET-PKD120H

- Projectors: PT-DZ870 / PT-DW830 / PT-DX100
(when using the ceiling mount bracket for low ceilings)



## Attention

- Install the projector with at least $500 \mathrm{~mm}(19-11 / 16$ ") gap from the surrounding walls or objects in order to ensure that the air intake/exhaust ports of the projector will not be blocked.
- Avoid setting up in places which are subject to sudden temperature changes, such as near an air conditioner or lighting equipment.


## Note

- Depending on the product, the appearance may differ from the illustrations in these installation instructions.


## Standard installation dimensions (continued)

The projection distance can be adjusted using the zoom lens. Check the projected image while making fine adjustments

- In the case of PT-DZ870 / PT-DW830 / PT-DX100

| Model number of projection lens | L1 size (Approx.) |
| :---: | :---: |
| Standard zoom lens | 0.043 |
| ET-DLE055 | 0.028 |
| ET-DLE085 | 0.084 |
| ET-DLE150 | 0.045 |
| ET-DLE250 | 0.045 |
| ET-DLE350 | 0.051 |
| ET-DLE450 | 0.095 |

## Standard installation dimensions (continued)

## - Projection distance according to the projector lens.

For the projection distances for projection lenses (optional), refer to the operating instructions [Installation] provided with the projector. Or check the diagonal dimension (m) of your projected image and calculate the projection distance using the following formula.

- In the case of PT-DZ870

Unit: m

| Lens type | Model number of projection lens | Aspect ratio |  | Projection distance (L) formula |
| :---: | :---: | :---: | :---: | :---: |
|  |  | $16 \cdot 10$ | Minimum(LW) | $\mathrm{L}=1.4906 \times \mathrm{SD}(\mathrm{m})-0.0746$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=2.0814 \times \mathrm{SD}(\mathrm{m})-0.0725$ |
| Standard zoom lens |  | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=1.5320 \times \mathrm{SD}(\mathrm{m})-0.0746$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=2.1393 \times \mathrm{SD}(\mathrm{m})-0.0725$ |
|  |  | 4.3 | Minimum(LW) | $\mathrm{L}=1.6874 \times \mathrm{SD}(\mathrm{m})-0.0746$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=2.3563 \times \mathrm{SD}(\mathrm{m})-0.0725$ |
|  |  | 16:10 | - | $\mathrm{L}=0.6893 \times \mathrm{SD}(\mathrm{m})-0.0476$ |
| Fixed-focus lens | ET-DLE055 | 16:9 | - | $\mathrm{L}=0.7084 \times \mathrm{SD}(\mathrm{m})-0.0476$ |
|  |  | 4:3 | - | $\mathrm{L}=0.7803 \times \mathrm{SD}(\mathrm{m})-0.0476$ |
|  |  | $16 \cdot 10$ | Minimum(LW) | $\mathrm{L}=0.6865 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=0.8498 \times \mathrm{SD}(\mathrm{m})-0.0442$ |
| Ultra short focus zoom lens | ET-DIE085 | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=0.7056 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
| Ulta short focus | LT-DLE085 |  | Maximum(LT) | $\mathrm{L}=0.8735 \times \mathrm{SD}(\mathrm{m})-0.0442$ |
|  |  | 4-3 | Minimum(LW) | $\mathrm{L}=0.7772 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=0.9621 \times \mathrm{SD}(\mathrm{m})-0.0442$ |
|  |  | $16 \cdot 10$ | Minimum(LW) | $\mathrm{L}=1.1259 \times \mathrm{SD}(\mathrm{m})-0.0540$ |
|  |  | 16.10 | Maximum(LT) | $\mathrm{L}=1.6243 \times \mathrm{SD}(\mathrm{m})-0.0498$ |
| Short focus zoom lens | ET-DIE150 | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=1.1572 \times \mathrm{SD}(\mathrm{m})-0.0540$ |
| Short focus zoom lens | ET-DLE150 |  | Maximum(LT) | $\mathrm{L}=1.6695 \times \mathrm{SD}(\mathrm{m})-0.0498$ |
|  |  | $4 \cdot 3$ | Minimum(LW) | $\mathrm{L}=1.2747 \times \mathrm{SD}(\mathrm{m})-0.0540$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=1.8388 \times \mathrm{SD}(\mathrm{m})-0.0498$ |
|  |  | $16 \cdot 10$ | Minimum(LW) | $\mathrm{L}=1.9665 \times \mathrm{SD}(\mathrm{m})-0.0800$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=3.1059 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
| Intermediate focus zoom lens | ET-DIE250 | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=2.0212 \times \mathrm{SD}(\mathrm{m})-0.0800$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=3.1923 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
|  |  | 4.3 | Minimum(LW) | $\mathrm{L}=2.2263 \times \mathrm{SD}(\mathrm{m})-0.0800$ |
|  |  | 4.3 | Maximum(LT) | $\mathrm{L}=3.5161 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
|  |  | 16:10 | Minimum(LW) | $\mathrm{L}=3.1000 \times \mathrm{SD}(\mathrm{m})-0.1351$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=4.6843 \times \mathrm{SD}(\mathrm{m})-0.1346$ |
| Long focus zoom lens | ET-DE350 | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=3.1862 \times \mathrm{SD}(\mathrm{m})-0.1351$ |
| Long focus | ET-DLE350 | 16.9 | Maximum(LT) | $\mathrm{L}=4.8146 \times \mathrm{SD}(\mathrm{m})-0.1346$ |
|  |  | 4.3 | Minimum(LW) | $\mathrm{L}=3.5094 \times \mathrm{SD}(\mathrm{m})-0.1351$ |
|  |  | 4.3 | Maximum(LT) | $\mathrm{L}=5.3030 \times \mathrm{SD}(\mathrm{m})-0.1346$ |
| Ultra long focus zoom lens | ET-DLE450 | $16: 10$ | Minimum(LW) | $\mathrm{L}=4.6931 \times \mathrm{SD}(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=7.4193 \times \mathrm{SD}(\mathrm{m})-0.2991$ |
|  |  | 16:9 | Minimum(LW) | $\mathrm{L}=4.8236 \times \mathrm{SD}(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=7.6256 \times \mathrm{SD}(\mathrm{m})-0.2991$ |
|  |  | 4:3 | Minimum(LW) | $\mathrm{L}=5.3129 \times \mathrm{SD}(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=8.3992 \times \mathrm{SD}(\mathrm{m})-0.2991$ |

## Note

- The values obtained from the above formulas may contain slight errors.
- The throw ratio is based on the value during projection of a 3.81 m (150") size image.
- When GEOMETRY or KEYSTONE adjustment is used, compensation is made so that the projected image size becomes smaller than the specified size.


## Standard installation dimensions (continued)

- In the case of PT-DW830

| Lens type | Model number of projection lens | Aspect ratio |  | Projection distance (L) formula |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 16:10 | Minimum(LW) | $\mathrm{L}=1.5651 \times \mathrm{SD}(\mathrm{m})-0.0746$ |
|  |  | 16.10 | Maximum(LT) | $L=2.1855 \times$ SD $(\mathrm{m})-0.0725$ |
| Stand |  |  | Minimum(LW) | $L=1.6086 \times$ SD $(\mathrm{m})-0.0746$ |
| Standard zoom lens | - | 16:9 | Maximum(LT) | $L=2.2462 \times$ SD $(\mathrm{m})-0.0725$ |
|  |  | $4 \cdot 3$ | Minimum(LW) | $\mathrm{L}=1.7715 \times \mathrm{SD}(\mathrm{m})-0.0746$ |
|  |  | 4.3 | Maximum(LT) | $\mathrm{L}=2.4736 \times \mathrm{SD}(\mathrm{m})-0.0725$ |
|  |  | 16:10 | - | $\mathrm{L}=0.7237 \times$ SD(m) - 0.0476 |
| Fixed-focus lens | ET-DLE055 | 16:9 | - | $\mathrm{L}=0.7438 \times \mathrm{SD}(\mathrm{m})-0.0476$ |
|  |  | 4:3 | - | $\mathrm{L}=0.8191 \times \mathrm{SD}(\mathrm{m})-0.0476$ |
|  |  | $16 \cdot 10$ | Minimum(LW) | $\mathrm{L}=0.7209 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=0.8923 \times \mathrm{SD}(\mathrm{m})-0.0442$ |
| Ultra short focus zoom lens | ET-DIE085 | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=0.7409 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
| Ulta short focus zoom lens |  |  | Maximum(LT) | $\mathrm{L}=0.9171 \times \mathrm{SD}(\mathrm{m})-0.0442$ |
|  |  |  | Minimum(LW) | $\mathrm{L}=0.8159 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
|  |  | 4.3 | Maximum(LT) | $L=1.0100 \times S D(m)-0.0442$ |
|  |  | $16 \cdot 10$ | Minimum(LW) | $\mathrm{L}=1.1822 \times \mathrm{SD}(\mathrm{m})-0.0540$ |
|  |  | 16.10 | Maximum(LT) | $\mathrm{L}=1.7055 \times \mathrm{SD}(\mathrm{m})-0.0498$ |
| Short | E | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=1.2151 \times \mathrm{SD}(\mathrm{m})-0.0540$ |
| Short | E | 16.9 | Maximum(LT) | $L=1.7529 \times$ SD $(\mathrm{m})-0.0498$ |
|  |  | $4 \cdot 3$ | Minimum(LW) | $L=1.3381 \times$ SD $(\mathrm{m})-0.0540$ |
|  |  |  | Maximum(LT) | $L=1.9304 \times$ SD(m) - 0.0498 |
|  |  | 16:10 | Minimum(LW) | $L=2.0649 \times$ SD $(\mathrm{m})-0.0800$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=3.2612 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
| Intermediate focus zoom lens | ET-DIE250 | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=2.1223 \times \mathrm{SD}(\mathrm{m})-0.0800$ |
| Intermediate focus zoom lens |  |  | Maximum(LT) | $\mathrm{L}=3.3519 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
|  |  | $4 \cdot 3$ | Minimum(LW) | $\mathrm{L}=2.3371 \times \mathrm{SD}(\mathrm{m})-0.0800$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=3.6912 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
|  |  | $16 \cdot 10$ | Minimum(LW) | $\mathrm{L}=3.2550 \times \mathrm{SD}(\mathrm{m})-0.1351$ |
|  |  | 16.10 | Maximum(LT) | $\mathrm{L}=4.9185 \times \mathrm{SD}(\mathrm{m})-0.1346$ |
| Long focus | ET-DIF350 | $16 \cdot 9$ | Minimum(LW) | $\mathrm{L}=3.3455 \times \mathrm{SD}(\mathrm{m})-0.1351$ |
| Long focus zoom lens | ET-DLE350 | 16.9 | Maximum(LT) | $L=5.0553 \times$ SD $(\mathrm{m})-0.1346$ |
|  |  | $4 \cdot 3$ | Minimum(LW) | $L=3.6842 \times$ SD $(\mathrm{m})-0.1351$ |
|  |  | 4.3 | Maximum(LT) | $L=5.5671 \times$ SD $(\mathrm{m})-0.1346$ |
| Ultra long focus zoom lens | ET-DLE450 | $16: 10$ | Minimum(LW) | $\mathrm{L}=4.9277 \times$ SD$(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=7.7903 \times \mathrm{SD}(\mathrm{m})-0.2991$ |
|  |  | 16:9 | Minimum(LW) | $\mathrm{L}=5.0647 \times \mathrm{SD}(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=8.0069 \times \mathrm{SD}(\mathrm{m})-0.2991$ |
|  |  | 4:3 | Minimum(LW) | $\mathrm{L}=5.5775 \times \mathrm{SD}(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=8.8174 \times \mathrm{SD}(\mathrm{m})-0.2991$ |

## Note

- The values obtained from the above formulas may contain slight errors.
- The throw ratio is based on the value during projection of a 3.81 m (150") size image.
- When GEOMETRY or KEYSTONE adjustment is used, compensation is made so that the projected image size becomes smaller than the specified size.


## Standard installation dimensions (continued)

- In the case of PT-DX100

| Lens type | Model number of projection lens | Aspect ratio |  | Projection distance (L) formula |
| :---: | :---: | :---: | :---: | :---: |
| Standard zoom lens | - | 4:3 | Minimum(LW) | $\mathrm{L}=1.4571 \times \mathrm{SD}(\mathrm{m})-0.0746$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=2.0346 \times \mathrm{SD}(\mathrm{m})-0.0725$ |
|  |  | $16: 9$ | Minimum(LW) | $\mathrm{L}=1.5875 \times \mathrm{SD}(\mathrm{m})-0.0746$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=2.2167 \times \mathrm{SD}(\mathrm{m})-0.0725$ |
| Fixed-focus lens | ET-DLE055 | 4:3 | - | $\mathrm{L}=0.6738 \times \mathrm{SD}(\mathrm{m})-0.0476$ |
|  |  | 16:9 | - | $\mathrm{L}=0.7340 \times \mathrm{SD}(\mathrm{m})-0.0476$ |
| Ultra short focus zoom lens | ET-DLE085 | $4: 3$ | Minimum(LW) | $\mathrm{L}=0.6711 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=0.8307 \times$ SD(m) - 0.0442 |
|  |  | 16:9 | Minimum(LW) | $\mathrm{L}=0.7311 \times \mathrm{SD}(\mathrm{m})-0.0471$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=0.9051 \times \mathrm{SD}(\mathrm{m})-0.0442$ |
| Short focus zoom lens | ET-DLE150 | 4:3 | Minimum(LW) | $\mathrm{L}=1.1006 \times \mathrm{SD}(\mathrm{m})-0.0540$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=1.5878 \times \mathrm{SD}(\mathrm{m})-0.0498$ |
|  |  | 16:9 | Minimum(LW) | $\mathrm{L}=1.1991 \times \mathrm{SD}(\mathrm{m})-0.0540$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=1.7299 \times \mathrm{SD}(\mathrm{m})-0.0498$ |
| Intermediate focus zoom lens | ET-DLE250 | 4:3 | Minimum(LW) | $\mathrm{L}=1.9224 \times \mathrm{SD}(\mathrm{m})-0.0800$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=3.0361 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
|  |  | 16:9 | Minimum(LW) | $\mathrm{L}=2.0943 \times \mathrm{SD}(\mathrm{m})-0.0800$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=3.3078 \times \mathrm{SD}(\mathrm{m})-0.0792$ |
| Long focus zoom lens | ET-DLE350 | 4:3 | Minimum(LW) | $\mathrm{L}=3.0304 \times \mathrm{SD}(\mathrm{m})-0.1351$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=4.5791 \times \mathrm{SD}(\mathrm{m})-0.1346$ |
|  |  | $16: 9$ | Minimum(LW) | $\mathrm{L}=3.3015 \times \mathrm{SD}(\mathrm{m})-0.1351$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=4.9888 \times \mathrm{SD}(\mathrm{m})-0.1346$ |
| Ultra long focus zoom lens | ET-DLE450 | 4:3 | Minimum(LW) | $\mathrm{L}=4.5876 \times \mathrm{SD}(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=7.2526 \times \mathrm{SD}(\mathrm{m})-0.2991$ |
|  |  | $16: 9$ | Minimum(LW) | $\mathrm{L}=4.9981 \times \mathrm{SD}(\mathrm{m})-0.3017$ |
|  |  |  | Maximum(LT) | $\mathrm{L}=7.9015 \times \mathrm{SD}(\mathrm{m})-0.2991$ |

## Note

- The values obtained from the above formulas may contain slight errors.
- The throw ratio is based on the value during projection of a 3.81 m (150") size image.
- When GEOMETRY or KEYSTONE adjustment is used, compensation is made so that the projected image size becomes smaller than the specified size.


## Installation

After checking the height, width, and structure of the installation location while referring to "Standard installation dimensions" on pages 5 to 9 , determine the appropriate positions for setting up the screen and installing the projector.

## Setting up the screen

Set up the screen according to the specified method in a position which takes into account the projection distance and angle and the type of screen being used.

## Screws tightening torques

M6 $\ldots \ldots . . . . .4 \pm 0.5 \mathrm{~N} \cdot \mathrm{~m}$
M8 $\ldots \ldots . . .10 \pm 1 \mathrm{~N} \cdot \mathrm{~m}$

- Use a torque screwdriver or torque wrench to tighten screws and bolts to their specified tightening torques. Do not use electric screwdrivers or impact screwdrivers.


## Installing the bracket to the projector

Attach the projector mount bracket to the projector (sold separately).


1) Place the projector upside-down onto a piece of soft material.
2) Turn the adjustment leg (see the figure on the left) clockwise to minimize the length of the leg. - If the adjustment leg (see the figure on the left) is long, the projector mount bracket comes in contact with the leg and cannot be mounted onto the projector.
3) Secure the projector mount bracket to the bottom of the projector using the six supplied captive washer screws ( $\mathrm{M} 6 \times 16$ ) as illustrated on the left.

## Installation(continued)

## Attaching the drop prevention kit to the projector

Attach the wire rope to the projector (sold separately).


1) Turn the adjustment leg (one) counterclockwise to remove it from the projector.
2) Pass the supplied flat washer (one) and wire rope through the adjustment leg (one) as illustrated on the left.
3) Turn the adjustment leg clockwise to secure it to the projector.

## Note

- For installing the ceiling mount brackets (for low and high ceilings) (sold separately) to this bracket as well as attaching the wire rope to the ceiling, refer to the respective installation instructions.


## Specifications

| External dimensions | Width: $380 \mathrm{~mm}(14-31 / 32$ "), Height: $56 \mathrm{~mm}(2-7 / 32$ "), |
| :---: | :---: |
| Depth: $362 \mathrm{~mm}\left(14-1 / 4^{\prime \prime}\right)$ |  |
| Weight | Approx. 2.5 kg (5.5 lbs.) |

## Panasonic Corporation

Web Site : https://panasonic.net/cns/projector/
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