

Installation Guide

Ceiling Flush Mount Bracket Indoor Use Only

Model No. **BB-HCA10CE**

Please read this document before using the product, and save this document for future reference.

Panasonic Network Camera Website: <http://panasonic.co.jp/pcc/products/en/netwkcaml/>

Please read the Operating Instructions included with the camera before proceeding.

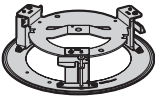


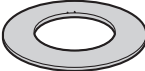





- This document (Installation Guide) explains how to install the BB-HCA10CE Network Camera using the Ceiling Flush Mount Bracket, and install the bracket in a ceiling.

Abbreviations

- The Ceiling Flush Mount Bracket is referred to as “the bracket” in this document.
- The Network Camera is referred to as “the camera” in this document.

Preparation

1. Confirm the following items are included in the bracket’s packaging.

<p>Ceiling Flush Mount Bracket (1 pc.)</p> 	<p>Washer (1 pc.) Order No. XWG4F16VW Used when securing the safety wire to the ceiling.</p> 	<p>Template (1 pc.) Order No. PNPD1087Z Used as a references when making a hole in the ceiling.</p> 
<p>Ceiling Mounting Cover (1 pc.) Order No. PQKL10092Z1 Used when mounting the camera on a ceiling.</p> 	<p>Screw A (1 pc.) Order No. XTB4+20AFJ Used to secure the safety wire to the ceiling.</p> 	<p>Screw B (4 pcs.) Order No. XYN4+F6FJ Used to secure the camera (3 pcs.) and the safety wire (1 pc.) to the bracket.</p> 
<p>Safety Wire (1 pc.) Order No. PQME10080Z Used to secure the bracket when mounting it.</p> 	<p>Connector Cover (1 pc.) Order No. PNHX1058Z Used to protect the cables when mounting the camera.</p> 	<p>Installation Guide (this document) (1 pc.)</p> 

2. You will need the following additional items to install the bracket.
 - 1 anchor bolt and 2 nuts (see step 2 and 6 on page 4)

Important Information Regarding Camera Mounting

Please read the following information before mounting the camera. Consult an authorized dealer for mounting.

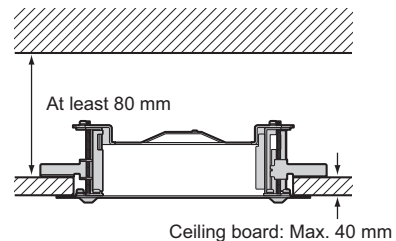
Caution

- Make sure you attach the safety wire when mounting the bracket and the camera on a ceiling to prevent them from falling.

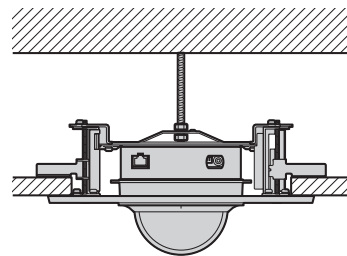
Note

- This product should only be used with the BB-HCM527 Network Camera.
- If using an SD memory card, insert the card before installing the camera in the bracket.
- Use screws that are appropriate for the material of ceiling.
- The included screws are for use with wooden ceilings only.
- To ensure that camera images are displayed properly, do not mount the bracket on an incline.
- The camera's MAC address and serial number are printed on the bottom of the camera and are needed in order for camera configuration and maintenance. Make a note of both of them for before mounting the camera.
- Mounting and cabling instructions described in this document follow generally accepted guidelines suitable for residential installations. In some areas, commercial and industrial installations are regulated by local or state ordinances. For such installations, contact your local building department or building inspector for more details.
- Camera images can be viewed in relatively dark areas, however, image quality decreases when viewing dark images. We recommend using supplemental lighting for best results.
- Prolonged exposure to direct sunlight or halogen light may damage the camera's image sensor. Mount the camera appropriately.

- When mounting the camera, make sure to wrap the AC adaptor cord (if used) and other cables (external microphone or speaker cable, video cable, etc.) around the hooks as shown to ensure secure connections.
- Do not directly touch the lens cover. Clean the lens cover with a dry and soft cloth if necessary.
- There must be at least 80 mm of space above the ceiling board where this product will be installed.
- The ceiling board must be no more than 40 mm thick.

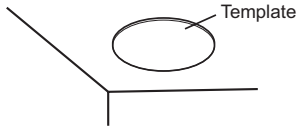


- The illustration below is an example of a completed installation, when looking at the rear of the camera.

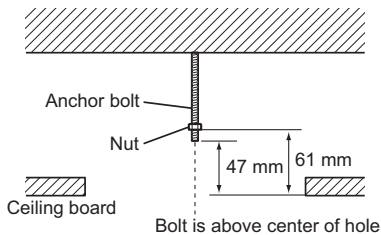


Mounting the Bracket and the Camera

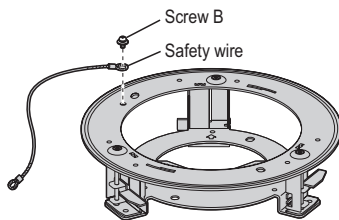
- Using the included template as a guide, make a hole (ϕ 240 mm) in the ceiling.



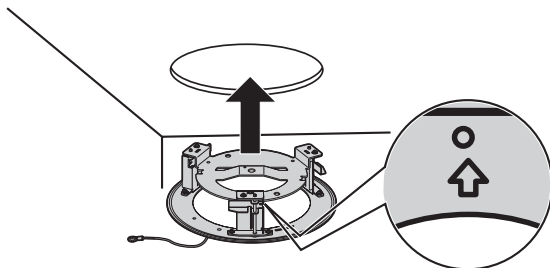
- Drive an anchor bolt (not included) into the original ceiling and attach a nut (not included) to the bolt.
 - Drive the anchor bolt into the original ceiling directly above the center of the hole made in step 1.
 - The end of the anchor bolt should be 47 mm above the bottom of the ceiling board.
 - The bottom of the nut should be 61 mm above the bottom of the ceiling board.



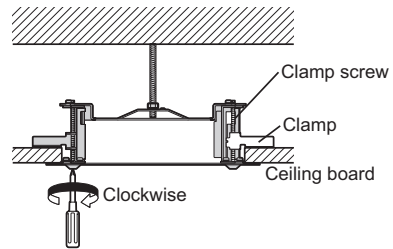
- Secure the safety wire to the bracket using screw B (included).



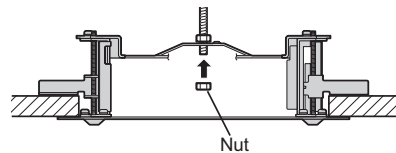
- Insert the bracket into the hole in the ceiling.
 - The camera will face the direction indicated by the arrow on the bracket.



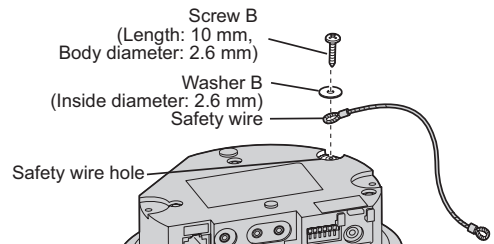
- Tighten the 3 clamp screws (attached to the bracket) and secure the bracket.
 - The clamps tighten as the screws are tightened.



- Secure the bracket by attaching and tightening a nut (not included) to the anchor bolt.

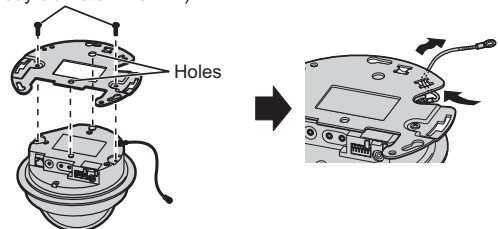


- Secure the safety wire (included with the camera) to the camera using screw B (included with the camera) and washer B (included with the camera).
 - Make sure you attach the safety wire when mounting the camera on a ceiling to prevent the camera from falling.

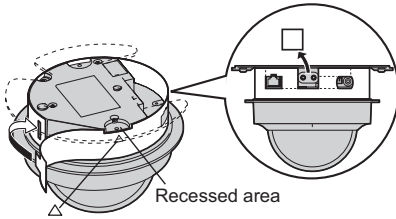


- Align the 2 round protrusions on the camera and the holes on the ceiling plate (included with the camera), tighten the screw to secure the ceiling plate, then pass the safety wire through the ceiling plate as shown. Make sure you do not scratch the lens cover when performing this procedure.

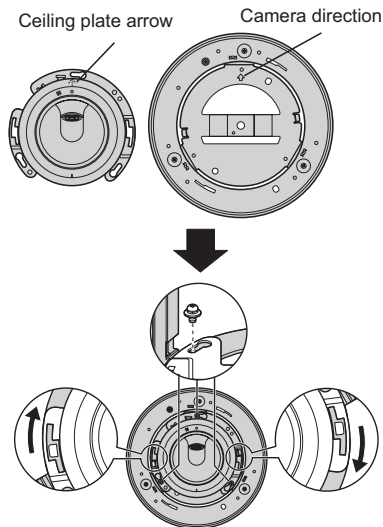
Screw A (2 pcs.) (Length: 20 mm, Body diameter: 4.0 mm)



9. Attach the connector cover (included) and connect the necessary cables to the camera.
- Align the “△” of the connector cover with the center of the recessed area of the bracket.
 - Cut spaces in the connector cover to make room for the cables that will be connected to the camera. Cut along the perforated lines.

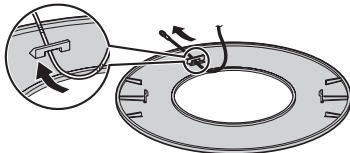


10. Attach the camera to the bracket in 3 places using screw B (included).
- Align the arrows on the ceiling plate (included with the camera) and the bracket when attaching the camera.

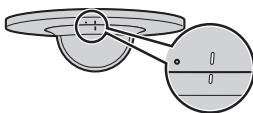


11. Secure the ceiling mounting cover (included) to the bracket.

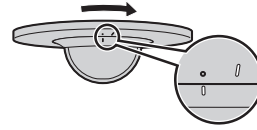
- ① Pass the safety wire through the ceiling mounting cover as shown.



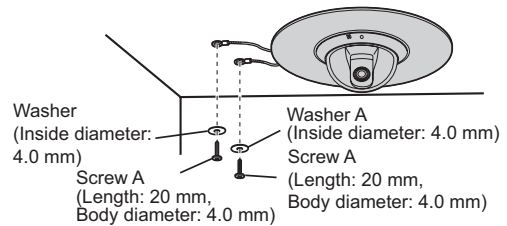
- ② Align the “/” marks on the rear of the camera and on the ceiling mounting cover.



- ③ Turn the ceiling mounting cover clockwise until the “/” mark on the rear of the camera and the “o” mark on the ceiling mounting cover are aligned as shown.



- Be careful not to nip the cables, cords, etc.
 - To remove the ceiling mounting cover, turn it counterclockwise until the “/” mark on the rear of the camera and on the ceiling mounting cover are aligned, then lower the ceiling mounting cover.
12. Secure the safety wire to the ceiling.
- Secure the bracket's safety wire first, using screw A and the washer (included with the bracket), then secure the camera's safety wire, using screw A and washer A (both included with the camera).
 - Secure the safety wires to the ceiling about 160 mm from the center of the camera.
 - Do not drive the screws into a soft material. Drive the screws into a secure, 25 mm thick area of the ceiling, such as a crossbeam, otherwise the bracket and the camera may fall. If there is no crossbeam, place a board on the other side of the ceiling to make sure the bracket and the camera are securely mounted.



Specifications

Operating temperature	+0 °C to +40 °C
Dimension (W×H×D)	About 270 mm × 77.5 mm × 270 mm
Weight	About 900 g

安装手册

天花板暗装支架 仅供室内使用

型号 **BB-HCA10CE**

请在使用前阅读本手册并保存本手册以备日后参考。

松下网络摄像机网站: <http://panasonic.co.jp/pcc/products/en/netwkcaml/>

继续进行下一步之前, 请阅读摄像机附带的使用说明书。

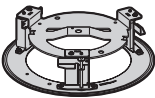
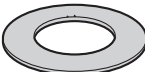



- 本手册 (安装手册) 介绍如何使用天花板暗装支架安装 BB-HCMS27 网络摄像机, 以及将支架安装到天花板中。

缩写

- 在本手册中天花板暗装支架又称为“支架”。
- 在本手册中网络摄像机又称为“摄像机”。

准备

1. 确认本支架包装中附带下列物品。

<p>天花板暗装支架 (1 个)</p> 	<p>垫圈 (1 个) 部件号 XWG4F16VW 将保险丝固定在天花板上时使用。</p> 	<p>模板 (1 块) 部件号 PNPD1087Z 在天花板上打孔时用作参考。</p> 
<p>天花板安装盖 (1 个) 部件号 PQKL10092Z1 将摄像机安装在天花板上时使用。</p> 	<p>螺丝 A (1 颗) 部件号 XTB4+20AFJ 用来将保险丝固定在天花板上。</p> 	<p>螺丝 B (4 颗) 部件号 XYN4+F6FJ 用来将摄像机 (3 颗) 和保险丝 (1 颗) 固定到支架上。</p> 
<p>保险丝 (1 根) 部件号 PQME10080Z 安装时用于固定支架。</p> 	<p>连接器盖 (1 个) 部件号 PNHX1058Z 安装摄像机时用来保护电缆。</p> 	<p>安装手册 (本手册) (1 本)</p> 

2. 需要以下附带物品安装支架。

- 1 颗锚杆和 2 颗螺母 (参阅第 28 页上的步骤 2 和 6)

有关摄像机安装的重要信息

安装摄像机之前请先阅读以下信息。有关安装，请咨询授权的经销商。

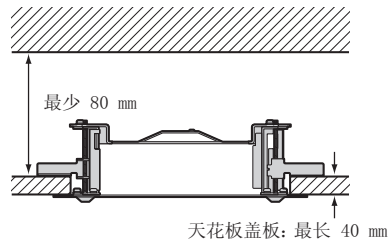
注意

- 在天花板上安装支架和摄像机时，确保附带保险丝，以防其掉落。

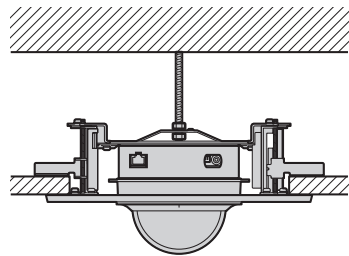
备注

- 本产品仅供 BB-HCM527 网络摄像机使用。
- 如果使用 SD 存储卡，将摄像机安装到支架中之前请插入存储卡。
- 请使用适合天花板材料的螺丝。
- 附带的螺丝仅用于木制天花板。
- 为确保正确显示摄像机图像，请勿将支架安装在斜面上。
- 摄像机的 MAC 地址和序列号印在摄像机底部，并且在摄像机配置和维护时需要。安装摄像机之前请将其记录下来。
- 本手册中介绍的安装和布线说明均遵循通常适用于住宅安装的公认规范。在某些地区，商业和工业安装会根据当地或国家法令调整。对于此类安装，有关详细信息请联系当地建筑部门或建筑检验员。
- 可以在相对黑暗的区域查看摄像机图像，但查看深色图像时，图像质量会降低。建议使用补充光线以获得最好的效果。
- 长时间暴露于直射阳光或卤素光下会损坏摄像机的图像传感器。请正确安装摄像机。

- 安装摄像机时，务必将交流适配器电线（如使用）和其他电线（外部麦克风或扬声器电缆、视频电缆等）按图中所示缠绕在挂钩周围，以确保安全连接。
- 不要直接触摸镜头盖。如有必要，请用柔软的干布清洁镜头盖。
- 安装本产品的天花板盖板上方至少需保留 80 mm 的空间。
- 天花板盖板的厚度不得超过 40 mm。

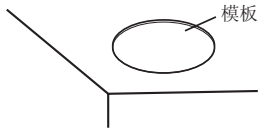


- 下图为摄像机后部的安装完成示意图。

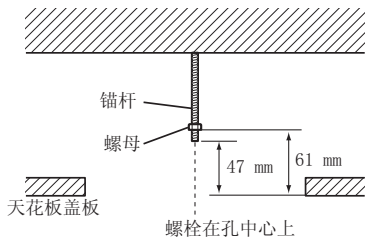


安装支架和摄像机

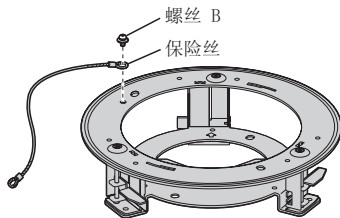
1. 将附带的模板作为导板使用，在天花板中打孔（ $\phi 240$ mm）。



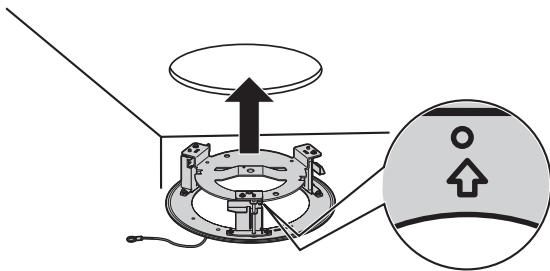
2. 将锚杆（非附带）钻入原有的天花板中，然后将螺母（非附带）套在锚杆上。
 - 在步骤1中所打孔的上方，直接将锚杆钻入原有的天花板。
 - 锚杆末端应在距离天花板盖板底部的上方 47 mm 处。
 - 螺母底部应在距离天花板盖板底部上方的 61 mm 处。



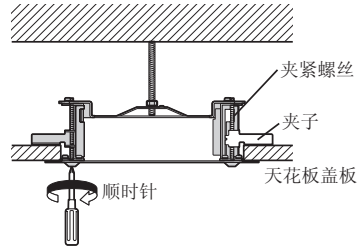
3. 用螺丝 B（附带）将保险丝固定到支架。



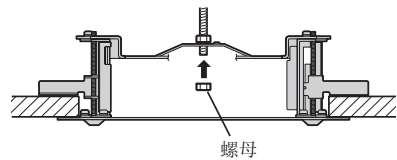
4. 将支架插入天花板的孔中。
 - 摄像机将朝向支架上箭头所示的方面。



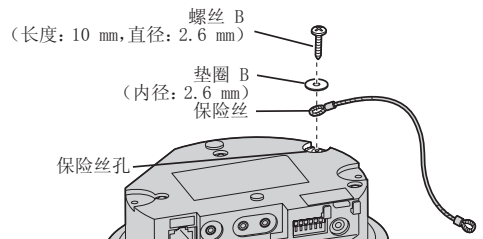
5. 拧紧 3 颗夹紧螺丝（附带在支架上）并固定支架。
 - 螺丝被拧紧后，夹子也会拧紧。



6. 将螺母（非附带）安装并拧紧到锚杆后，将支架固定。

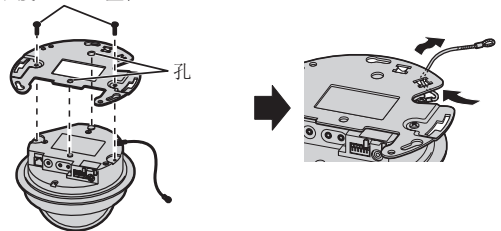


7. 用螺丝 B（摄像机附带）和垫圈 B（摄像机附带）将保险丝（摄像机附带）固定到摄像机。
 - 在天花板上安装摄像机时，确保附带保险丝，以防摄像机掉落。

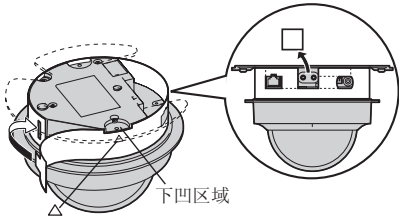


8. 将摄像机上的 2 个圆形突出部分与天花板盖板（摄像机附带）上的孔对齐，拧紧螺丝将天花板盖板固定，然后如图所示将保险丝穿过天花板盖板。确保执行该步骤时不会刮花镜头盖。

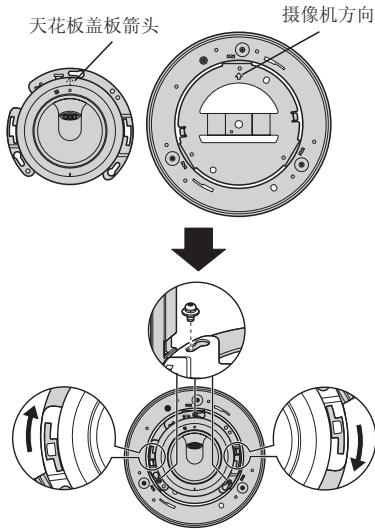
螺丝 A(2 颗)
(长度: 20 mm, 直径: 4.0 mm)



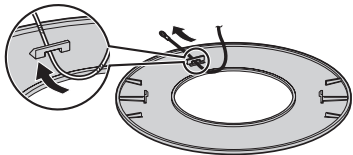
9. 安装连接器盖（附带），然后将必要的电缆连接到摄像机。
- 将连接器盖的“△”与支架下凹区域的中心对齐。
 - 在连接器盖中切割出空隙，为将要连接到摄像机的电缆留出空间。沿着穿孔线切割。



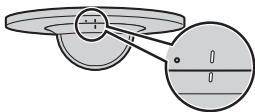
10. 用螺丝 B（附带）在 3 处将摄像机安装到支架。
- 安装摄像机时，将天花板盖板（摄像机附带）的箭头和支架上的箭头对齐。



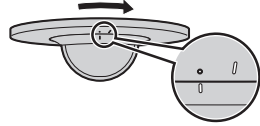
11. 将天花板安装盖（附带）固定到支架。
- ① 如图所示将保险丝穿过天花板安装盖。



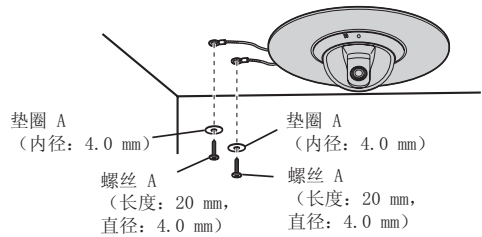
- ② 将摄像机后部的“/”标记与天花板安装盖上的标记对齐。



- ③ 顺时针将天花板安装盖旋转直到摄像机后部的“/”标记与天花板安装盖上的“o”标记如图所示对齐。



- 小心不要夹到电缆、电线等。
 - 若要拆下天花板安装盖，将其逆时针旋转直到摄像机后部的“/”标记与天花板安装盖上的标记对齐，然后放低天花板安装盖。
12. 将保险丝固定在天花板上。
- 首先用螺丝 A 和垫圈（支架附带）固定支架的保险丝，然后用螺丝 A 和垫圈 A（均由摄像机附带）固定摄像机的保险丝。
 - 将保险丝固定到距摄像机中心约 160 mm 处的天花板。
 - 请勿将螺丝拧进柔软材料中。将螺丝拧进天花板 25 mm 厚的牢固区域，如横梁，否则支架和摄像机可能会掉落。如果没有横梁，在天花板的另一侧上放置木板以确保支架和摄像机已牢固安装。



规格

操作温度	+0 ° C 至 +40 ° C
尺寸 (宽×高×厚)	约 270 mm × 77.5 mm × 270 mm
重量	约 900 g