This manual describes the installation procedure, cable connections, and the angle of view adjustment of the camera. Before reading the manual, make sure to read the Important Information. This manual shows how to install the network camera using model SPN311R as an example.

Important Information

- The component names of the camera are as follows. Refer to the illustration when installing or adjusting the camera.

**Connections and Cables**

- Turn off each system's power supply before making a connection. Before making connections, give a wiring example of how to connect the camera to the network via a PoE device (hub).
- Make sure that the PoE device in use is compliant with IEEE802.3af standard.
- The maximum cable length is 100 m (328 feet).
- Be sure to use the power cable plug (1 accessory) provided with this product.
- Be sure to initialize the power cable plug (1 accessory) into the 12 V DC power supply terminal. Otherwise, it may damage the camera or cause malfunction.
- When initializing the camera, make sure that the adjustment force is not applied to the camera for more than 10 seconds.
- Be sure to use an AC adapter compliant with the Specifications (written in the indication label on the bottom side of the unit) regarding power source and power consumption.

**Specifications**

- If the PoE cable is not used, each network camera must be connected to a 12 V DC power supply terminal.
- If a PoE cable is used, each network camera must be connected to a 12 V DC power supply terminal.

**Connections and Disconnections**

- Do not connect 2 wires or more directly to a terminal. When it is necessary to connect 2 wires, use a splitter.
- CR, OR, and OUT of the external I/O terminal 2 and 3 can be each connected (using a jumper wire) using the “ALARM IN1, ALARM IN2” (volume adjustment terminal) to the “Power supply” (FD: Open or 4 V – 5 V DC or ON).
- When connecting to an external power supply, be sure to use the power cable plug (1 accessory). Install a READILY ACCESSIBLE DISCONNECT DEVICE INSIDE THE BUILDING'S STRUCTURAL FRAME. CAUTION: LIMITED POWER SOURCE (IEC/EN/UL/CSA 60950-1).

**Network Camera**

Model No.: WV-SNP31A1 / WV-SNP31A1 / WV-SNP31A0

**Network Camera Model**

- The component names of the camera are as follows. Refer to the illustration when installing or adjusting the camera.

**Connections and Cables**

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Model No.: WV-SNP31A1 / WV-SNP31A1 / WV-SNP31A0

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- When initializing the camera, make sure that the adjustment force is not applied to the camera for more than 10 seconds.
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**Specifications**

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- If a PoE cable is used, each network camera must be connected to a 12 V DC power supply terminal.

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- Do not connect 2 wires or more directly to a terminal. When it is necessary to connect 2 wires, use a splitter.
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**Network Camera**

Model No.: WV-SNP31A1 / WV-SNP31A1 / WV-SNP31A0

**Network Camera Model**

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**Step1 Preparations**

- Do not press the SD ON/OFF button after replacing the SD memory card. The SD memory card indicator is lit if the SD memory card is properly installed.

**Step2 Mount the lens to the camera**

- From the top of 14-200MEF4 lens, align the red dot on the lens mount with the mark on the camera, and then turn the lens clockwise until it clicks.

**Step3 Mount the camera on the wall**

- From the bottom of the camera, align the red dot on the camera with the mark on the wall, and then turn the camera clockwise until it clicks.

**Step4 Mount the camera (Continued)**

- **For mounting on ceiling**
  - When using the tripod mount base (figure 3), connect the camera to the ceiling mount bracket and adjust the focus position. (Continued from page 3)

**Step5 Connect and adjust the camera**

- After performing basic adjustments, press the STOP button to stop the focus, and then adjust the focus to the position you want to achieve. (Continued from page 4)

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**Installation**

- The installation instructions are explained using 5 steps.

**Step1 Preparation**

- The installation area shall be strong enough to hold the camera and camera mount bracket.

**Step2 Mount the lens to the camera**

- Use a lens with a protruded portion from the mount face of ±20 mm (±0.79 inch) or less and a protruded portion from the lens face of ±10 mm (±0.39 inch) or less. Lenses without a focus adjustment mechanism and zoom lenses cannot be used.

**Step3 Insert/remove an SD memory card**

- **Step4 Mount the camera (Continued)**
  - **For mounting on ceiling**
    - Secure the wall mount bracket (locally procured) on the attachment position of the camera, and then mount the camera on the wall mount bracket using the screws (M4, locally procured), and then secure the camera mount bracket to secure the camera. Tighten the camera mount bracket fixing mechanism and secure the camera mount bracket to the camera. (Continued from page 5)

**Step5 Connect and adjust the camera**

- **For mounting on wall**
  - **For mounting on wall**
    - Secure the wall mount bracket (locally procured) on the attachment position of the camera, and then mount the camera on the wall mount bracket using the screws (M4, locally procured), and then secure the camera mount bracket to secure the camera. (Continued from page 6)

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**Step3 Mount the camera on the wall**

- **For mounting on wall**
  - **For mounting on wall**
    - Secure the wall mount bracket (locally procured) on the attachment position of the camera, and then mount the camera on the wall mount bracket using the screws (M4, locally procured), and then secure the camera mount bracket to secure the camera. (Continued from page 7)

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**Step4 Mount the camera (Continued)**

- **For mounting on ceiling**
  - **For mounting on ceiling**
    - Secure the wall mount bracket (locally procured) on the attachment position of the camera, and then mount the camera on the wall mount bracket using the screws (M4, locally procured), and then secure the camera mount bracket to secure the camera. (Continued from page 8)

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**Step5 Connect and adjust the camera**

- **For mounting on wall**
  - **For mounting on wall**
    - Secure the wall mount bracket (locally procured) on the attachment position of the camera, and then mount the camera on the wall mount bracket using the screws (M4, locally procured), and then secure the camera mount bracket to secure the camera. (Continued from page 9)

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**Step4 Mount the camera (Continued)**

- **For mounting on ceiling**
  - **For mounting on ceiling**
    - Secure the wall mount bracket (locally procured) on the attachment position of the camera, and then mount the camera on the wall mount bracket using the screws (M4, locally procured), and then secure the camera mount bracket to secure the camera. (Continued from page 10)

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**Step5 Connect and adjust the camera**

- **For mounting on wall**
  - **For mounting on wall**
    - Secure the wall mount bracket (locally procured) on the attachment position of the camera, and then mount the camera on the wall mount bracket using the screws (M4, locally procured), and then secure the camera mount bracket to secure the camera. (Continued from page 11)