

# NC-PRO15x

## Hardware User Manual

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Printed in Japan

This "Hardware User Manual" is comprised of pages [1/2] and [2/2]. Please be sure to read the "Safety Precautions" section for correct use. After reading this "Hardware User Manual", keep it in a readily accessible location for future reference. This camera is for indoor use only.

- The cameras described in this document may include models not available in your country and/or region.
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## QSYS Self Help Portal

### Knowledge Base

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## Check Included Items

Camera  
Ceiling Plate  
Safety Wire 3 m (9.8 ft.)  
Wire Stopper (for safety wire)  
Camera-to-Mount Safety Wire 10 cm (3.94 in.)  
M3 Screw x 6 (for camera mounting, camera-to-mount safety wire, and wire stopper x 4)  
Printed Materials

### Symbols used in this manual



Parts indicated in the "Hardware User Manual" [2/2] with this icon are not included with the camera, and should be prepared by the user.

## Safety Precautions



**Warning** Failure to follow the instructions may result in death or serious injury.

#### Do not install in the following places:

- Places in direct sunlight, near heat-generating objects, or locations subject to high temperatures.
- Places near fire sources or flammable solvents (alcohol, thinner, fuel, etc.).
- Humid or dusty places.
- Places subject to oily smoke or steam.

- Confined or enclosed places.

#### Failure to do so may result in fire or electric shock.

#### Notes on installation at high places

- For installation or inspection of this camera, consult the dealer where you purchased the product.
- Install the camera in a way that ensures sufficient holding strength according to the mounting place such as the wall, ceiling, etc. Also, make sure that the mounting place can sufficiently support the total weight including the mounting parts and reinforce it if necessary.
- Prepare fixing screws suitable for the location and type of surface the camera is to be installed.
- Periodically check the mounting brackets and screws for rust and loosening.
- Do not install in unstable places, places subject to significant vibration or impact, or places subject to salt damage or corrosive gas.
- Be sure to attach the safety wire when installing the camera.
- Use the included ceiling plate to install the camera. Do not install it with only the tripod screws.

#### Failure to do so may result in the camera falling or other accidents.

#### General notes on the camera

- If any defective conditions such as smoke, strange sounds, heat, strange odors, damage or cracks on the external case are discovered, immediately stop using the camera, unplug the power cable from the outlet (or the LAN cable for PoE+ power supply), and contact your nearest dealer. Place the AC adapter near the power outlet and avoid placing objects around the power plug so that the power can be turned off immediately in the event of an emergency.
- Do not touch the camera or the connecting cables during a thunderstorm.
- Do not disassemble or modify the camera.
- Do not scratch, pull, or forcefully bend the cables, or put a load on their connections.
- Do not spray the camera with water, or otherwise make it wet.
- Do not touch the camera, the AC adapter, cable connectors, power plugs, or power outlets with wet hands.
- Do not allow water, metal or other foreign objects to enter the camera.
- Do not use flammable sprays near the camera.
- Do not leave the AC adapter (or the LAN cable for PoE+ power supply) connected when the camera is not in use for long periods.
- Do not use flammable solvents such as alcohol, paint thinner or benzene when cleaning the camera.
- Do not block the air intake or air exit vents.

#### Failure to do so may result in fire or electric shock.

#### Notes on Power Supply

- Do not place heavy objects on the power cable (or the LAN cable for PoE+ power supply) or pull, forcibly bend, scratch or modify it.
- Do not allow metal pins or debris to touch the power plug or terminals.
- Wipe any dust off of the power plug. Also, if the connection is made to the power outlet in a dusty area, take measures to prevent tracking.
- Make sure the power plug (or the LAN cable for PoE+ power supply) is seated all the way, and do not use it when the insertion is insufficient.
- Do not use a damaged power plug or a loose power outlet, or use it in a manner that exceeds the rating of the wiring device such as connecting multiple plugs to an outlet.

#### Failure to do so may result in fire or electric shock.

#### Do not use the product at:

- Places where the use is prohibited, such as in hospitals and on airplanes.
- Places within reach of babies and toddlers.

#### Use at such places can cause equipment to malfunction due to radio waves and lead to accidents, or cause electric shock and injuries.



**Caution** Failure to follow the instructions may result in injuries or property damages.

#### Notes on installation

- Installation must be carried out safely and securely in accordance with the relevant regulations for technical standards of electrical installation.

#### Failure to do so may result in accidents.

#### Notes on installation

- Take care not to damage wiring or piping.

#### Failure to do so may result in damage to surrounding items.

#### General notes on the camera

- Do not touch the edges of metal parts with bare hands.
- Be careful not to get your fingers caught when installing.

#### Failure to do so may result in injuries.

#### Notes on batteries

- Remove the batteries when they have been used up or will not be used for a long time.
- When replacing the batteries, replace both batteries at the same time. Also, do not use different types of batteries together.
- Make sure + and - of the battery are oriented correctly.
- If any liquid from inside the battery gets on your body due to leakage, rinse it off thoroughly with water.

#### Failure to do so may result in injuries and malfunctions.



**Important**

- Do not install the camera in places where radiation, X-rays, strong radio waves or strong magnetism are generated. It may cause video and audio disturbance, noise, or malfunctions.
- We recommend the installation of a lightning arrester (a surge protection device) as a measure against failures caused by lightning strikes.
- Take measures to remove static electricity before performing any procedures.
- Do not connect the PoE cable to the RS-422 terminal.
- Do not connect the AC adapter to a transformer.
- Before connecting the camera to an external device with a cable, ground both the camera and the external device. Failure to do so may damage electrical components.
- If there is condensation, please wait to power on, until the condensation dissipates.
- Do not hold the device by the camera head.
- Do not turn the camera rotator by hand.
- After turning off the power, do not turn the power on again for at least five seconds.
- Do not point the camera at strong light sources (such as the sun on a clear day or strong artificial light sources). Internal components such as the image sensor could be damaged.
- Do not carry the camera on a tripod.

## About lamp

| Lamp        | Lamp status           | Status                                                                                          |
|-------------|-----------------------|-------------------------------------------------------------------------------------------------|
| STATUS lamp | Orange light ON       | Standby<br>Power shortage                                                                       |
|             | Orange light BLINKING | PT position error<br>Firmware being updated<br>Device failure                                   |
| POWER lamp  | Orange light ON       | Standby                                                                                         |
|             | Orange light BLINKING | ID mode                                                                                         |
|             | Green light ON        | Power on                                                                                        |
|             | Green light BLINKING  | Initializing (Starting and restarting)<br>Moving to or returning from standby<br>Device failure |
| Tally lamp  | Red light ON          | Distributing data                                                                               |
|             | Green light ON        | Preparing to distribute data                                                                    |

## Before using the camera

Operation check can be performed by applying power with no LAN connected. Consult the HDMI/SDI output for information.

## Notes for When and After Installing the Camera

### When Installing the Camera

#### Installation at high places



**Caution** Request a professional installer for all installation work. Never try to install the camera yourself. Doing so may result in unforeseen accidents such as dropping the camera or electric shock.

When installing the camera at a high place, use the ceiling plate to fix the camera. Fix the ceiling plate tightly with four M4 screws (pan head, binding head, etc.). When working with the camera upside down, support the camera to prevent it from wobbling in order to attach or remove the rubber feet or the camera-to-mount safety wire. Keep the four rubber feet and four screws that have been removed for reuse in case of a change in the installation.

### Ceiling mount

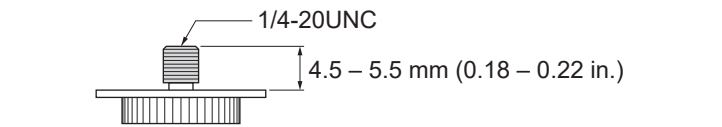
The camera is hung upside down from the ceiling or other location using the ceiling plate. The procedure provided in the "Hardware User Manual" [2/2] explains this installation method. The weight of the camera (body only) is Approx. 4.1 kg (9.04 lb.). Reinforce the ceiling depending on its structure and material to ensure the sufficient holding strength to support the total weight including the camera and the mounting parts, and install.

### Standing mount

The camera is fixed to a high place using the ceiling plate. Follow the same procedure as for the ceiling mount, except for the direction of the camera and logo plate inversion.

### Tripod mount

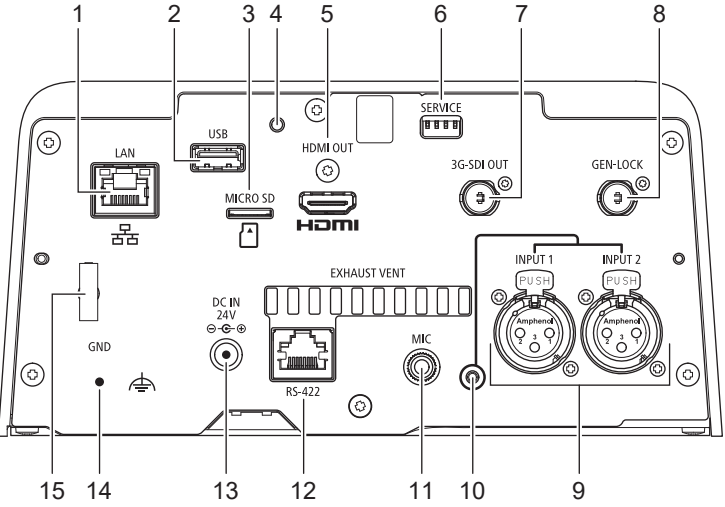
Attach the tripod by fixing two screws to the two screw holes for tripod. Use 1/4-20UNC screws and tighten them securely, and set the tripod on a flat surface with no steps. Also refer to the instructions in the "Hardware User Manual" [2/2], if necessary.



### Desktop

Install the camera on a stable, horizontal surface such as a table. Also refer to the instructions in the "Hardware User Manual" [2/2], if necessary.

# Connecting the Camera



**1. LAN terminal**  
This terminal is for a network connection (RJ-45 connector).  
The built-in PoE+ (Power over Ethernet+) function allows the camera to be powered by a PoE+ HUB that complies with IEEE802.3at Type 2 via a LAN cable.  
Use a category 5e or higher STP (shielded type) LAN cable, up to 100 m (328 ft.) in length.

 **Important**

- Some PoE+ HUBs can limit the power for each port, but applying limits may interfere with performance. In this case, do not limit the power.
- Some PoE+ HUBs have limits for the total power consumption for the ports, which can interfere with performance when multiple ports are in use. For more information, check the instruction guide for the corresponding PoE+ HUB.

**2. USB terminal**  
For future expansion.

**3. Memory card slot**  
For future expansion.

**4. RESET switch**  
Initialize the camera settings to the factory defaults.

**5. HDMI OUT terminal**  
Terminal for HDMI output.

**6. SERVICE switch**  
Set various functions.

**7. 3G-SDI OUT terminal**  
Terminal for 3G-SDI output (BNC).

**8. GEN-LOCK terminal**  
Terminal for the synchronization signal input (BNC) to synchronize the videos from the camera and external devices.  
If the reference signal is unstable, external synchronization is not possible. Subcarriers do not synchronize.

**9. INPUT1/INPUT2 terminal**  
XLR terminals for audio input. It can be used for microphone/line input.

- Microphone input: Input impedance 600 Ω ±10%  
Microphone power (Phantom power): 48 V ±1 V  
Bias resistance: 6.8 Ω ±1%
- Line input: Input impedance 10k Ω ±10%

**10. LED for phantom power supply**  
It is lit in blue when the phantom power is supplied.

**11. MIC terminal**  
Stereo Φ3.5 mm (Φ0.14 in.) terminal for audio input. It can be used for microphone/line input.

- Microphone input: Input impedance 1.5k Ω or higher  
Microphone power: 2.4 V ±0.2 V  
Bias resistance: 2.2 k Ω ±5%
- Line input: Input impedance 1.5 k Ω or higher

**12. RS-422 terminal**  
Serial terminal (RJ-45 connector) for RS-422.  
Connect the GNDs on both ends to stabilize the voltage level of the signal. Use category 5e or higher STP cables.

| Pin number | Function |            |
|------------|----------|------------|
| 1          | TX-      | Output (-) |
| 2          | TX+      | Output (+) |
| 3          | RX-      | Input (-)  |
| 4          | GND      | –          |
| 5          | GND      | –          |
| 6          | RX+      | Input (+)  |
| 7          | NC       | –          |
| 8          | NC       | –          |

**13. DC IN 24V terminal**  
Power supply terminal for the AC adapter.

**14. GND terminal**  
Ground terminal of the camera.

**15. Cable clamp**  
Cable clamp to prevent cord disconnection.  
Pass the AC adapter cord through the clamp to prevent the cord from coming off.

 **Note**

- The camera is not equipped with a power switch. To turn the camera on and off, insert and remove the cable of the AC adapter connected to the "13. DC IN 24V terminal" or the PoE+ HUB connected to the "1. LAN terminal", which supplies power.  
When both the PoE+ HUB and the AC adapter are connected, the AC adapter takes priority. If the AC adapter is disconnected while both adapters are connected, power to the camera will be interrupted. In this case, power can be restored by disconnecting and reconnecting the LAN cable.
- The audio input terminals ("9. INPUT1/INPUT2 terminal", "11. MIC terminal") and microphones should be set using the Settings Page.

## Specifications

Pan operation range: Horizontal ±170°  
Tilt operation range: Vertical -30° – +90°  
Operating Environment: Temperature: 0°C – +40°C (+32°F – +104°F)  
Humidity: 10% – 90% (without condensation)  
Storage Environment: Temperature: 0°C – +40°C (+32°F – +104°F)  
Humidity: 10% – 90% (without condensation)  
Power Consumption: PoE+ Input: Approx. 19.6 W\* max. (body only)  
DC Input: Approx. 18.6 W max. (body only)  
\*Class 4 (25.5 W required) for power supply devices  
Dimensions (W x H x D): Approx. 200 x 269 x 208 mm (7.87 x 10.59 x 8.19 in.) (excluding protrusions)  
Weight: Approx. 4.1 kg (9.04 lb.) (body only)

# Country Regulations

**FCC NOTICE**  
Remote Camera, Model Name: NC-PRO15x  
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.  
Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.  
Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Use of shielded cable is required to comply with class A limits in Subpart B of Part 15 of FCC Rules.

Use of shielded network cable is required to comply with Class A limits in EN55032.

Only for European Union and EEA (Norway, Iceland and Liechtenstein)



These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU), the Battery Regulation ((EU) 2023/1542) and/or national legislations implementing those Directive and Regulation.  
If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Regulation, this indicates that a heavy metal (Pb = Lead) is present in this battery at a concentration above an applicable threshold specified in the Battery Regulation.  
This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.  
For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit <https://www.qsc.com/esg/environmental-sustainability-statement>.

Manufactured By:  
CANON INC.  
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo  
146-8501, Japan

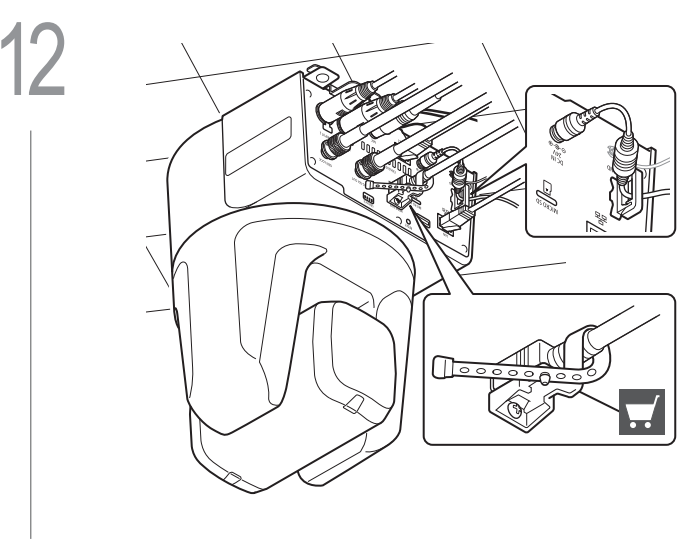
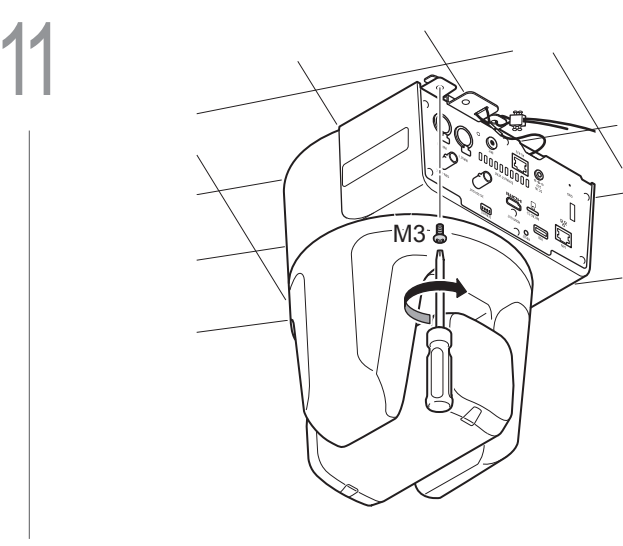
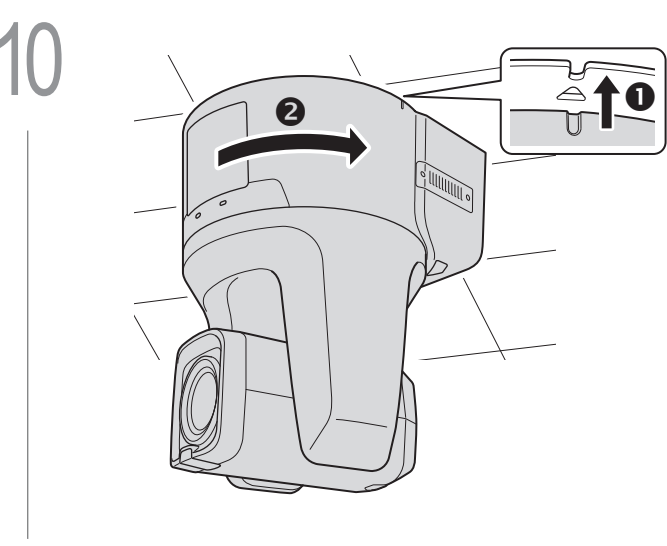
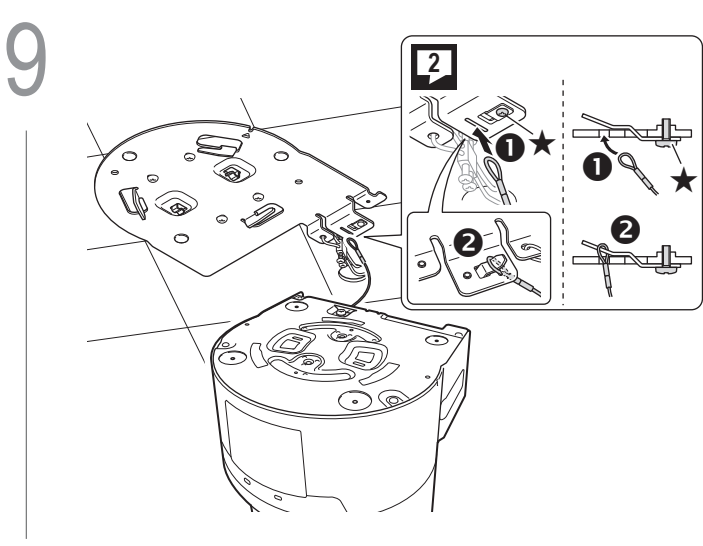
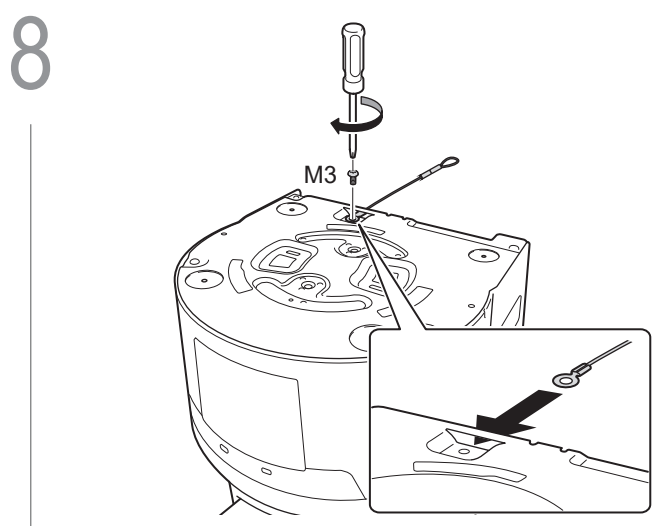
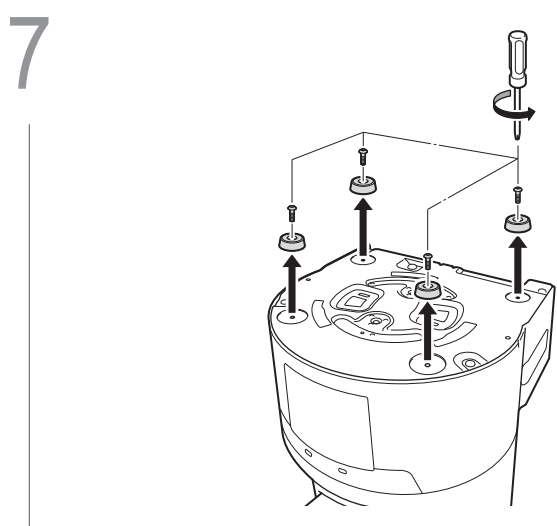
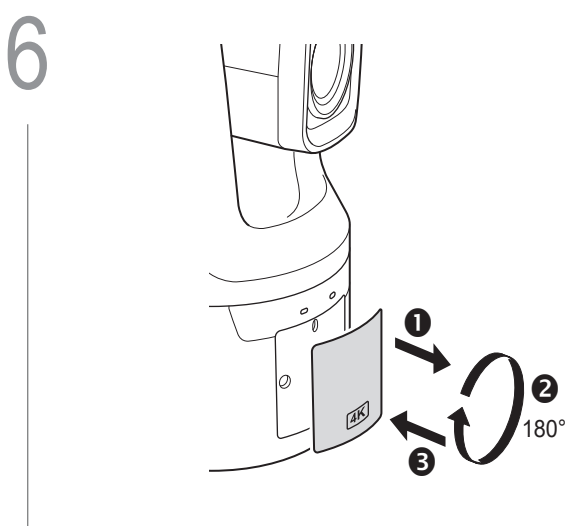
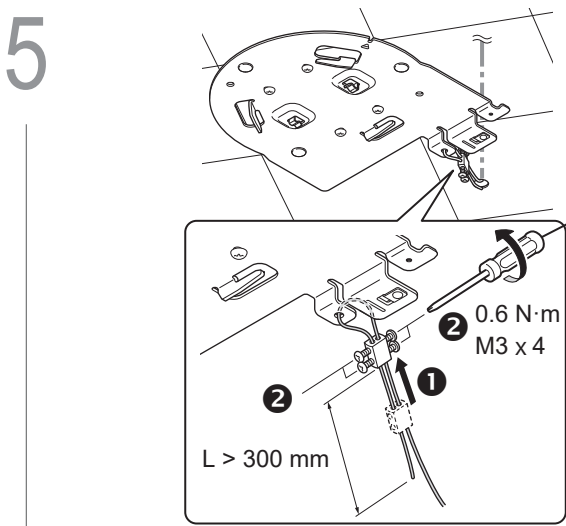
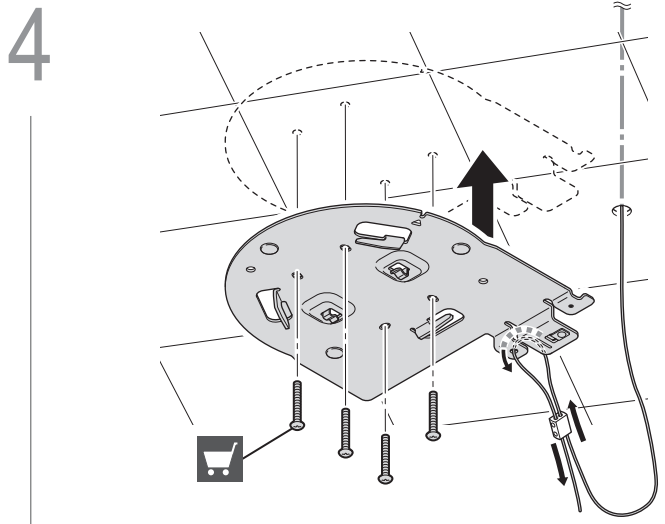
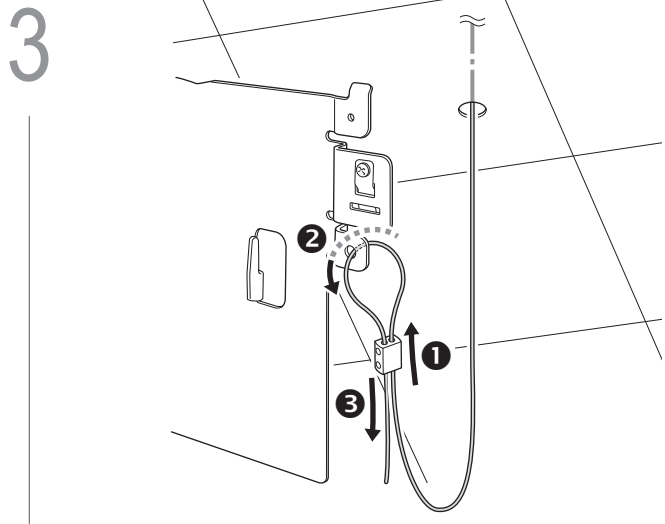
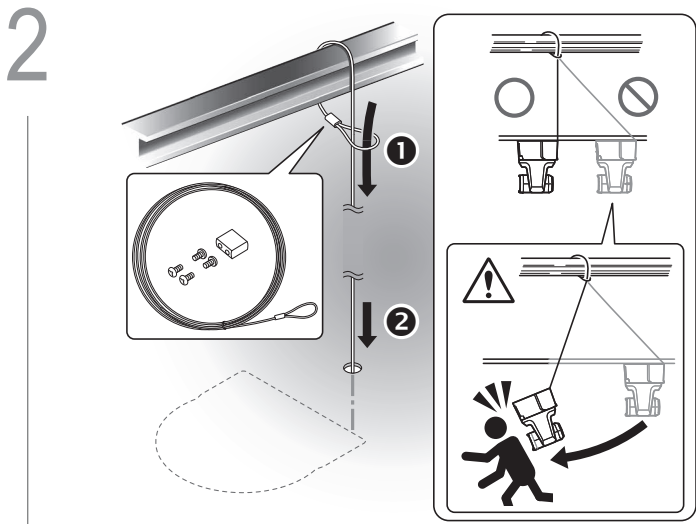
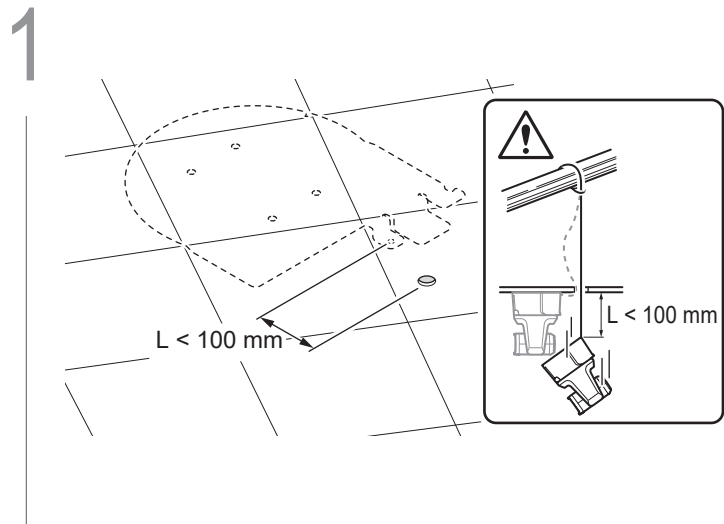
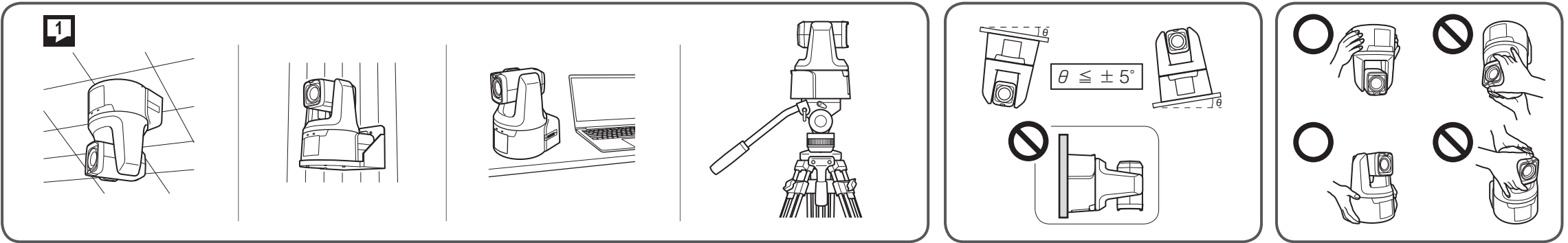
**Graphical symbols placed on the equipment**

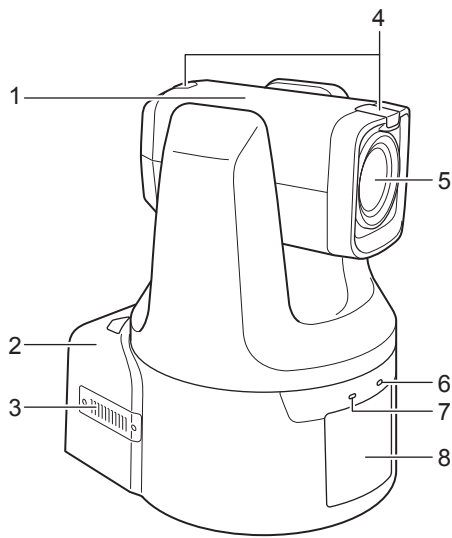
 Direct current

CAN ICES(A)/NMB(A)

Per l'Italia, Etichettatura ambientale: per il corretto riciclo degli imballaggi dei nostri prodotti e articoli, visita il sito <https://www.qsc.com/esg/environmental-sustainability-statement>







#### JA

1. カメラヘッド / 2. ベース / 3. 吸気口 / 4. タリーランプ\* / 5. レンズ / 6. STATUS ランプ\* / 7. POWER ランプ\* / 8. ロゴプレート / 9. ゴム脚 / 10. 取付用板金固定ネジ穴 / 11. 定格銘版 / 12. 三脚用ネジ穴 / 13. 排気口 / 14. 背面パネル\*

\* 詳細は「ハードウェア・ユーザーマニュアル [1/2]」参照

#### EN

1. Camera head / 2. Base / 3. Air intake vent / 4. Tally lamp\* / 5. Lens / 6. STATUS indicator\* / 7. POWER indicator\* / 8. Logo plate / 9. Rubber feet / 10. Screw hole for fixing ceiling plate / 11. Rating label / 12. Screw hole for tripod / 13. Air exit vent / 14. Rear panel\*

\* Refer to the "Hardware User Manual" [1/2] for details.

#### DE

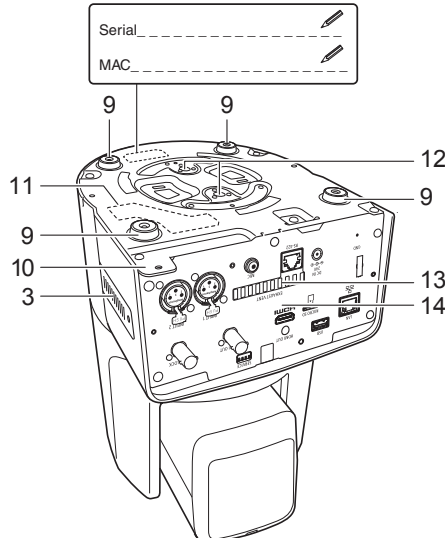
1. Kamerakopf / 2. Sockel / 3. Lufteinlassöffnung / 4. Kamerakontrolllampe\* / 5. Objektiv / 6. STATUS-Anzeige\* / 7. STROM-Anzeige\* / 8. Logoschild / 9. GummifüÙe / 10. Schraubenloch zur Befestigung der Deckenplatte / 11. Typenschild / 12. Schraubenloch für Stativ / 13. Luftauslassöffnung / 14. Rückwärtiges Bedienfeld\*

\* Für weitere Informationen siehe „Hardware-Benutzerhandbuch“ [1/2].

#### ES

1. Cabezal de la cámara / 2. Base / 3. Entrada de ventilación / 4. Luz de recuento\* / 5. Objetivo / 6. Indicador de ESTADO\* / 7. Indicador de ENCENDIDO\* / 8. Plancha de logotipo / 9. Patas de goma / 10. Orificio para atornillar la plancha de techo / 11. Etiqueta de calificación / 12. Orificio para atornillar el trípode / 13. Salida de ventilación / 14. Panel trasero\*

\* Consulte la "Manual del usuario del hardware" [1/2] para conocer más detalles.



#### FR

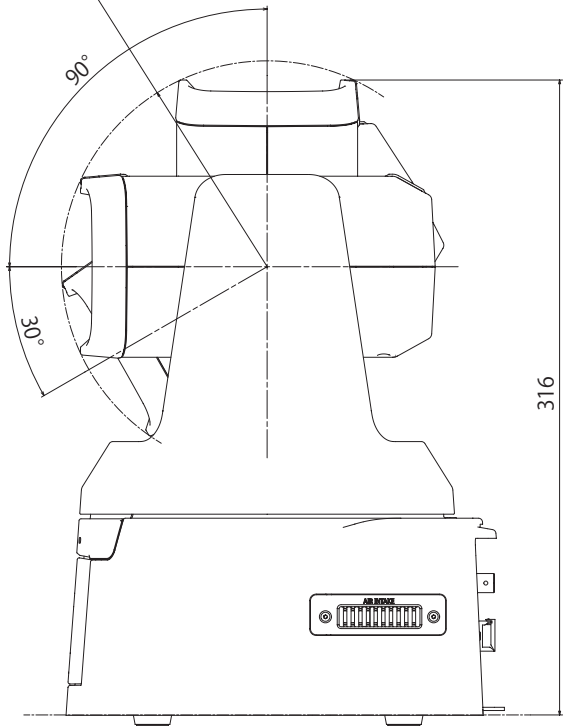
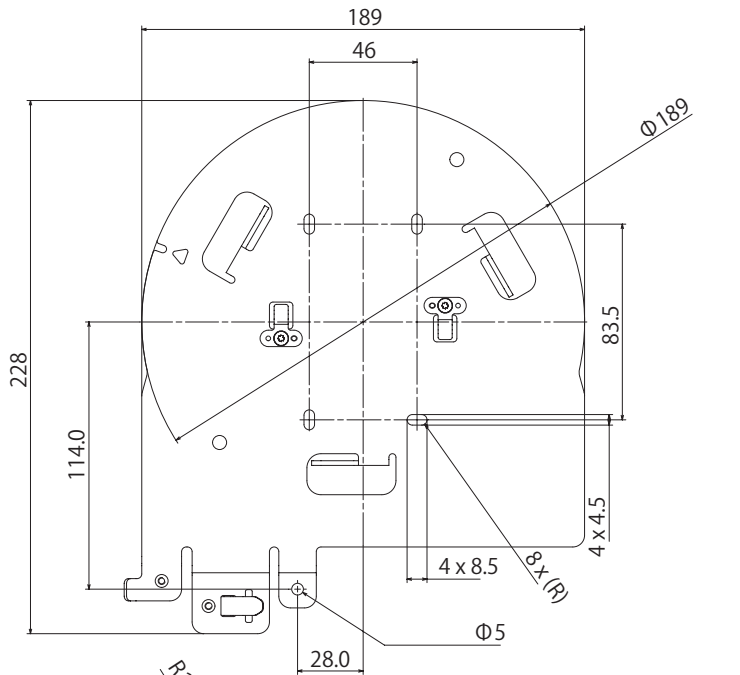
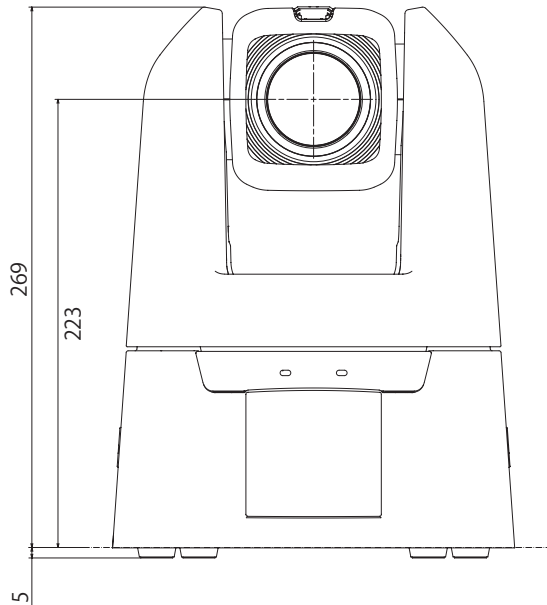
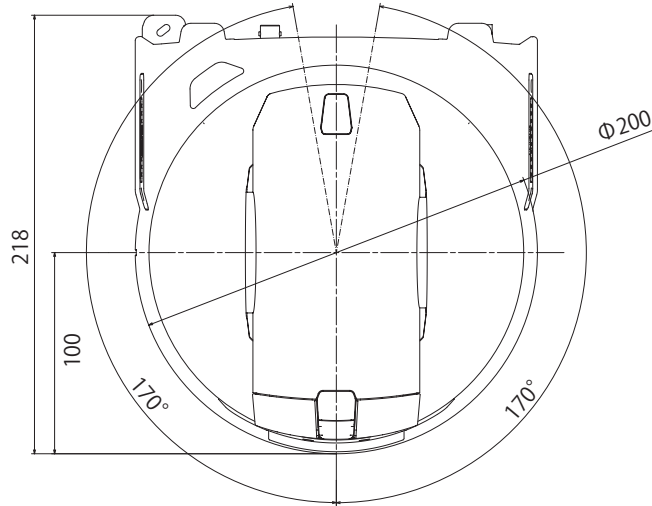
1. tête de camera / 2. Base / 3. Orifice d'admission d'air / 4. Lampe tally\* / 5. Objectif / 6. Indicateur d'état\* / 7. Indicateur d'alimentation\* / 8. Plaque de logo / 9. Pieds en caoutchouc / 10. Trou de vis pour plaque de fixation / 11. Étiquette constructeur / 12. Trou de vis pour trépied / 13. Orifice de sortie d'air / 14. Panneau arrière\*

\* Consultez le « Manuel de l'utilisateur du matériel » [1/2] pour plus de détails.

#### ZH

1. 摄像机头部 / 2. 底座 / 3. 进气口 / 4. 摄像指示灯\* / 5. 镜头 / 6. STATUS指示灯\* / 7. POWER指示灯\* / 8. 标志牌 / 9. 橡胶脚垫 / 10. 吊顶板固定螺孔 / 11. 额定铭牌 / 12. 三脚架螺孔 / 13. 排气口 / 14. 后面板\*

\* 有关详细信息，请参阅“硬件用户手册[1/2]”



Unit: mm

#### 1

**JA** 設置の手順は天吊り設置で説明します。据え置き / 机上 / 三脚の設置では必要に応じて参照してください。

**EN** Installation procedure is explained using the ceiling mount as an example. Refer to this section as reference if necessary, for standing mount, desktop and tripod mount.

**DE** Der Installationsvorgang wird anhand der Deckenmontage als Beispiel erläutert. Ziehen Sie diesen Abschnitt bei Bedarf zur Referenz heran – bei Standmontage, Desktop und Stativmontage.

**ES** El procedimiento de instalación se explica con el montaje en techo como ejemplo. En caso necesario, consulte esta sección como referencia para el montaje de pie, en escritorio y el montaje en trípode.

**FR** La procédure d'installation est expliquée en prenant le support de plafond pour exemple. Si nécessaire, consultez cette section à titre de référence pour le montage sur pied, sur table ou sur trépied.

**ZH** 使用天花板安装作为示例对安装步骤进行说明。对于直立安装、桌面和三脚架安装，必要时请参考本节。

#### 2

**JA** スリットから設置用落下防止ワイヤーを通し (①)、裏側にあるフックに引っかけます (②)。ワイヤーの外し方：フック固定ネジ (★) を緩め (①)、ワイヤーをフックから逃がす方向に上下させて設置用落下防止ワイヤーを外してください (②)。

**EN** Pass the Camera-to-Mount Safety Wire through the slit ① and attach it to the hook on the rear side ②.  
How to remove the wire: Remove the Camera-to-Mount Safety Wire by loosening the hook fixing screw (★) ① and moving the wire upward and downward to release from the hook ②.

**DE** Führen Sie das Sicherungsseil zwischen Kamera und Halterung durch den Spalt ① und befestigen Sie es an dem Haken auf der Rückseite ②.  
So entfernen Sie das Seil: Entfernen Sie das Sicherungsseil zwischen Kamera und Halterung durch Lösen der Hakenbefestigungsschraube (★) ① und Auf- und Abbewegen des Seils, um es vom Haken zu lösen ②.

**ES** Pase el cable de seguridad de la cámara al montaje a través de la hendidura ① y átelo al gancho situado en la parte posterior ②.  
Cómo retirar el cable: Para retirar el cable de seguridad de la cámara al montaje, afloje el tornillo para fijación del gancho (★) ① y mueva el cable hacia arriba y hacia abajo para soltarlo del gancho ②.

**FR** Faites passer le fil de sécurité reliant la caméra au support dans la fente ① et fixez-le au crochet situé à l'arrière ②.  
Pour retirer le fil : Retirez le fil de sécurité reliant la caméra au support en desserrant la vis de fixation du crochet (★) ① et en déplaçant le fil vers le haut et vers le bas pour le dégager du crochet ②.

**ZH** 将安装用安全钢丝从细缝穿过 (①)，然后将其挂在后方的挂钩上 (②)。如何取下钢丝：通过松开挂钩固定螺丝 (★) (①)，然后上下移动钢丝以从挂钩上脱离来取下安装用安全钢丝 (②)。

