

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

\* Some cameras are not available in certain countries or regions.

**WARNING** To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.

**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.

## Check Included Items

Camera	Installation Guide (This document)
Power connector	Warranty card

## Accessories

The following accessories can be purchased separately as necessary. Some accessories are not available in certain countries or regions.

### AC Adapter PA-V18

Dedicated AC adapter for this camera.

## Safety Precautions

### Installation 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
- Places subject to sea air
- Confined or enclosed places

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

#### Notes on Power Supply

- Only use the dedicated AC adapter (sold separately) when using AC adapter.
- Do not set any heavy objects on the power cable (or the LAN cable for a PoE power supply).
- Do not pull, forcibly bend, scratch, or modify the power cable (or the LAN cable for a PoE power supply).
- Do not cover or wrap the AC adapter (sold separately) with cloth or blankets.

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

**Caution** Failure to follow the instructions may result in injury.

#### For installation or inspection of this camera, consult the dealer where you purchased the product.

- This installation should be made by a qualified service person and should conform to all local codes.
- When installing, make sure the surface is capable of withstanding the total weight of the camera and accessories, and sufficiently reinforce if necessary.
- Be sure to use installation screws designed for the type of surface the camera is to be installed.
- Periodically check the parts and screws for rust and loosening, in order to prevent injuries and equipment damage due to falling items.

- Do not install in unstable places, places subject to significant vibration or impact, or places subject to salt damage or corrosive gas.

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

- Be careful not to get your fingers caught when installing.

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

**Caution** Failure to follow the instructions may result in property damage.

- Do not install on an unstable surface.
- After turning off the power, do not turn the power on again for at least five seconds.
- Take measures to remove static electricity before performing any procedures.
- If there is condensation, please wait to power on, until the condensation dissipates.
- The network camera is only intended for a connection to an Ethernet or PoE network without routing to the outside plant.

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

- Take care not to damage wiring or piping.

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

### Important

We recommend the installation of a lightning arrester (a surge protection device) as a measure against failures caused by lightning strikes. Please refer to our website for details.

## Precautions for Use

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

- If you discover defective conditions such as smoke, strange sounds, heat or strange odors, immediately stop using the camera and contact your nearest dealer.

#### Fire or electric shock may result from continued use of the product.

- If thunder starts, stop installation or inspection etc. and do not touch the camera or continue connecting the cable.
- Do not disassemble or modify the camera.
- Do not damage the connecting cable.
- Do not spray the camera with water, or otherwise make it wet.
- Do not insert foreign objects such as water or metal into the camera.
- Do not use flammable sprays near the camera.
- Do not leave LAN cables, external power supply, or the power connector for the AC adapter (sold separately) 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.

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

- This camera should not be used with medical devices or other life-support systems.
- Depending on the computer and network environment, high-precision video transmission cannot be guaranteed due to video lag or loss.

Canon will assume no liability for any accident or damage resulting from use of the camera under the conditions above.

The contents of this guide are subject to change without any prior notice.

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

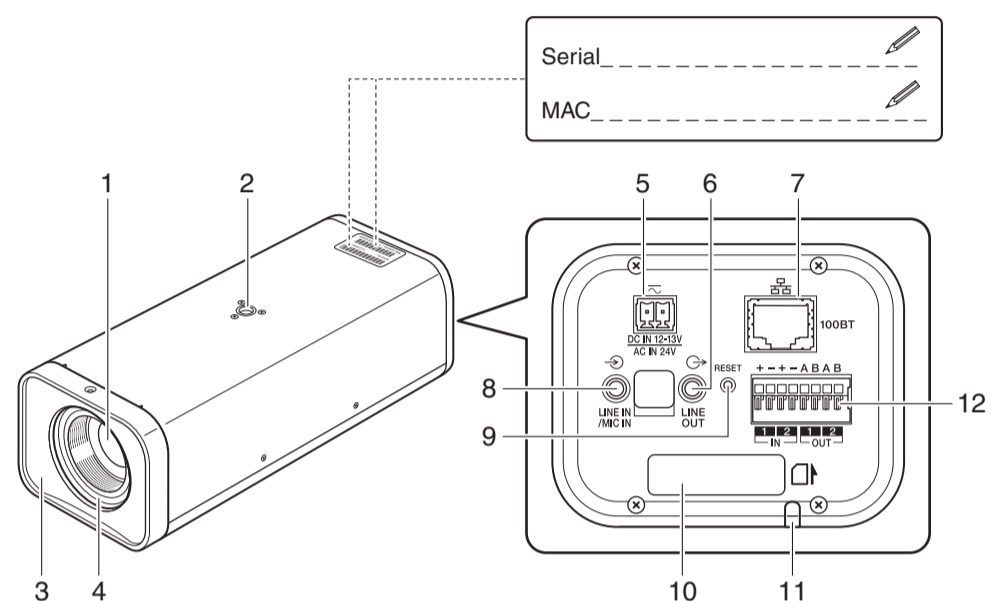
These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU), the Battery Directive (2006/66/EC) and/or national legislation implementing those Directives. If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.



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 and accumulators. 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 [www.canon-europe.com/weee](http://www.canon-europe.com/weee), or [www.canon-europe.com/battery](http://www.canon-europe.com/battery).

## Part Names



1. Lens / 2. Mounting screw holes\*1 / 3. Front cover / 4. Lens protector /  
5. Power connection terminal / 6. Audio output terminal (LINE OUT) /  
7. 100Base-TX LAN connector / 8. Audio input terminal (dual LINE IN and MIC IN) /  
9. Reset Switch\*2 / 10. Memory card cover / 11. LED (Blue)\*3 / 12. External Device I/O Terminals

\*1 A tripod mounting screw (1/4-20 UNC) will fit.

\*2 Please refer to the "Operation Guide" for the method to reset the camera.

\*3 On: when powered on, during reboot, during normal use / Off: when [Turn Off] is selected (please refer to the "Operation Guide")

## Specifications

Please refer to the “Specifications” for specifications not listed below.

Lens	3x optical zoom (4x digital zoom) lens (electric drive)
Viewing Angle	For 16:9 aspect ratios Horizontal: 112.6° (W) – 36.7° (T)      Vertical: 60.8° (W) – 20.6° (T) For 4:3 aspect ratios Horizontal: 82.3° (W) – 27.5° (T)      Vertical: 60.8° (W) – 20.6° (T)
Network Terminal*	LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex)) * Use a category 5 or better LAN cable, 100 m (328 ft.) or less in length.
Audio Input Terminal (common for LINE IN & MIC IN)	Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural)
Audio Output Terminal (LINE OUT)	Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural)
External Device I/O Terminal	Input x 2, Output x 2
Memory Card	SD Memory Card, SDHC Memory Card, SDXC Memory Card Compatible.
Operating Environment	Temperature: AC, DC, PoE: -10°C – +50°C (+14°F – +122°F) Humidity: 5% – 85% (without condensation)
Storage Environment	Temperature: -30°C – +60°C (-22°F – +140°F)      Humidity: 5% – 90% (without condensation)
Installation	With use of mounting pole (third party product)
Power Supply	PoE: PoE power supply via LAN connector (IEEE802.3at Type1 compliant) AC Adapter: PA-V18 (100 – 240 V AC) (sold separately) External power source: 24 V AC/12 V DC
Power Consumption	PoE: Max. approx. 6.9 W* AC Adapter PA-V18: Max. approx. 7.5 W (100 V AC) Max. approx. 7.8 W (240 V AC) DC: Max. approx. 7.0 W AC: Max. approx. 6.5 W * Class 0 power sourcing equipment (requests 15.4 W)
Weight	Approx. 670 g (1.48 lb.)

## Connecting the Camera

### Power Connection

Please be sure to read the user manual for the dedicated power supply before use.

#### Note

- Power supply should conform to all local codes.
- The power supply should also comply with IEC/UL60950-1 (SELV/LPS) standards.
- The camera does not have a power switch. Connecting and disconnecting the LAN cable (PoE power supply), AC adapter, or external power supply plug turns the power ON and OFF, respectively.
- When the camera needs to be rebooted, perform the reboot operation from the camera setting page (please refer to the “Operation Guide”).

### PoE (Power over Ethernet)

Power can be supplied to the camera by using a LAN cable to connect it to a PoE HUB that conforms to the IEEE802.3at Type1 standard.

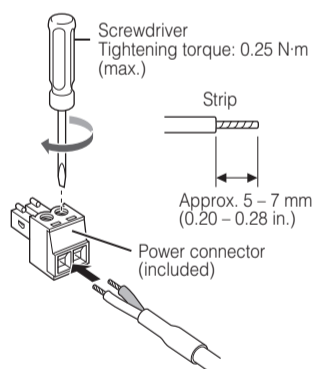
#### Important

- Check with your dealer for more information about PoE HUB and Midspan technology. Midspan (a LAN cable power supply device) is a device that, like a PoE HUB, supplies power to the camera via a LAN cable.
- Some PoE HUBs allow the limitation of power for each port, but applying limits may interfere with performance. If using this type of PoE HUB, do not limit the operating 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 your PoE HUB.
- The camera can also be connected to an AC adapter (sold separately) while receiving power from a PoE HUB. In such cases, the PoE power supply is given priority, and the camera does not use the power supply from the AC adapter (sold separately). When the PoE power supply is disconnected, power is supplied automatically from the AC adapter (sold separately).

### External Power Supply

12 V DC or 24 V AC input can be used.

Connect the included power connector as shown below.



12 V DC can be connected in a non-polar configuration.

#### Important

- The power supply should be within the following voltage range.
- 24 V AC: Voltage fluctuation within  $\pm 10\%$  of 24 V AC (50 Hz or 60 Hz  $\pm 0.5$  Hz or less)  
Current supply capacity of at least 1.0 A per camera
- 12 V DC: Voltage fluctuation within  $\pm 10\%$  of 12 V DC  
Current supply capacity of at least 1.5 A per camera
- When using a 12 V DC battery power supply, be sure to connect resistors of at least 0.5 – 1.0  $\Omega$ /20 W in series to the power line.
- For an external power supply, use a double-insulated device.

### Recommended Power Cables [Reference]

Cable (AWG)	24	22	20	18	16	
12 V DC maximum cable length	m (ft.)	5 (16.4)	9 (29.5)	14 (45.9)	23 (75.5)	32 (105.0)
24 V AC maximum cable length	m (ft.)	11 (36.1)	18 (59.1)	29 (95.1)	46 (150.9)	64 (210.0)

Use UL cable (UL-1015 or equivalent) for 12 V DC or 24 V AC wiring.

### AC Adapter

Use the dedicated AC Adapter (sold separately).

## External Device I/O Terminals

External device I/O terminals consist of two input and output systems each. Viewer can be used to check external device input status and control output to an external device (please refer to the “Operation Guide”).

### External Device Input Terminals (IN1, IN2)

External device input terminals consist of two sets (IN1, IN2) of two terminals, with the negative terminals connected to the camera interior GND. Connecting cables to the positive and negative terminals and opening or closing the circuit notifies the Viewer.

#### Important

- When connecting sensors and switches, connect terminals that are electrically isolated from the respective power and GND.
- Do not push the external device I/O terminal button with too much force. Doing so may cause the button to remain pushed-in.

### External Device Output Terminals (OUT1, OUT2)

External device output terminals consist of two sets (OUT1, OUT2) of two terminals. The sets have no polarity. Controls from the viewer can be used to open and close the circuit between the terminals. Using optical couplers, the output terminals are isolated from the camera's internal circuit.

The load connected to the output terminals should be within the following rating range.

Rating between output terminals:

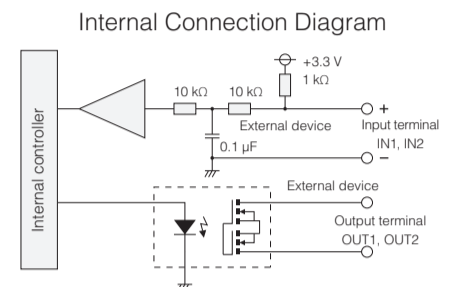
Maximum voltage 50 V DC

Continuous load current at or below 100 mA

On resistance: Max. 30  $\Omega$

#### Note

Adaptive wiring for external device cables  
Solid conductor AWG: No. 28 – 22  
Cable strip should be approx. 8 – 9 mm (0.31 – 0.35 in.)



## Audio Input/Output Terminals

Each audio input/output terminal has one input system and one output system.

Connecting the camera to an audio input/output device such as a microphone or a speaker with an amplifier allows you to send/receive audio through the viewer.

### Audio Input Terminal Common LINE IN/MIC IN (monaural input)

Although the camera has a single audio input system, it supports two types of microphone input: LINE IN and MIC IN. Before using the audio input, change the [Audio Input Mode] on the Setting Page (please refer to the “Operation Guide”). LINE IN is selected by default.

Input terminal: Φ3.5 mm (Φ0.14 in.) mini-jack (monaural)

- Dynamic MIC IN  
Input impedance: 1.5 k $\Omega$   $\pm 5\%$   
\* Supported microphones: Output impedance: 400  $\Omega$  – 600  $\Omega$
- Condenser MIC IN  
Input impedance (microphone bias resistance): 2.2 k $\Omega$   $\pm 5\%$   
Microphone power supply: plug-in power (voltage: 1.8 V)  
\* Supported microphones: Condenser microphones with plug-in power support
- LINE IN  
Input level: Max. 1 Vp-p  
\* Use a microphone with an amplifier.

### Audio Output Terminal LINE OUT (monaural output)

Connect the camera to a speaker with an amplifier. Audio can be sent to the speaker from Viewer.

Output terminal: Φ3.5 mm (Φ0.14 in.) mini-jack (monaural)

Output level: Max. 1 Vp-p

\* Use a speaker with an amplifier.

#### Important

- Using incorrect settings for [Audio Input Mode] may damage the camera and/or microphone. Be sure to configure the settings correctly.
- Microphone characteristics may affect volume and sound quality.
- Images and audio do not always synchronize properly.
- Audio may be interrupted depending on PC characteristics and network environment.
- Video and audio can be streamed to up to 30 clients. However, audio may be interrupted when streaming to many clients or using SSL.
- Audio may be interrupted when using antivirus software.
- Connecting and disconnecting the LAN cable interrupts the audio. Use the viewer to reconnect.

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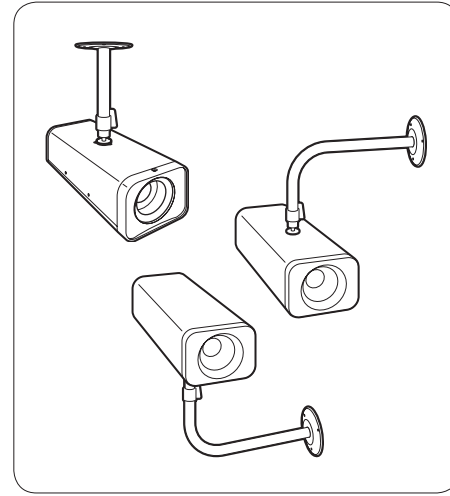
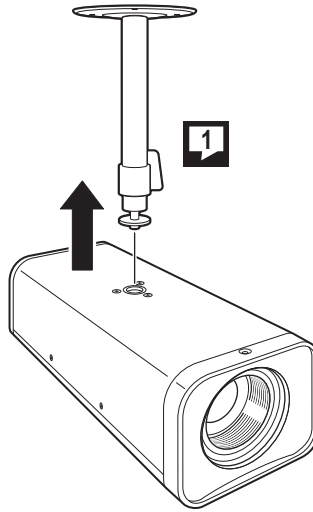


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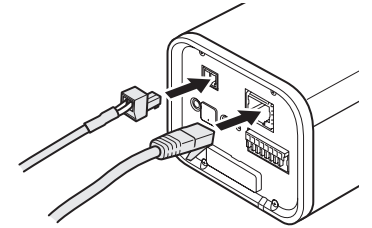
初版 : 2017. 8. 1

# VB-H730F Mk II

1



2



1

**JA** 取付金具はお客様で用意していただくか、販売店にご相談ください。取付金具は、取り付けネジの長さが5.5mm未満のものをご使用ください。

**EN** You must consult your retailer or provide the mounting bracket yourself. Be sure to use a mounting bracket with a mounting screw shorter than 5.5 mm (0.22 in.).

**DE** Wenden Sie sich an Ihren Fachhändler oder besorgen Sie die Montagehalterung selbst. Verwenden Sie unbedingt eine Montagehalterung mit einer Montageschraube, die kürzer als 5,5 mm ist.

**ES** Debe consultar al vendedor o conseguir usted mismo el soporte para montaje. Utilice un soporte para montaje con un tornillo para fijación de menos de 5,5 mm (0,22 pulg.) de longitud.

**FR** Pour obtenir le support de montage, consultez votre revendeur ou prévoyez-en un de votre côté. Assurez-vous d'utiliser un support de montage dont la vis est inférieure à 5,5 mm (0,22 po).

**IT** Consultare il rivenditore o fornire personalmente la staffa di montaggio. Accertarsi di utilizzare una staffa di montaggio con una vite di montaggio più corta di 5,5 mm.

**RU** Проконсультируйтесь со своим розничным продавцом либо достаньте монтажный кронштейн самостоятельно. В комплекте с монтажным кронштейном обязательно используйте монтажный винт короче 5,5 мм.

**TR** Saticınıza başvurmanız veya montaj braketini kendiniz sağlamanız gerekir. Montaj vidası 5,5 mm'den kısa bir montaj braketini kullanmaya dikkat edin.

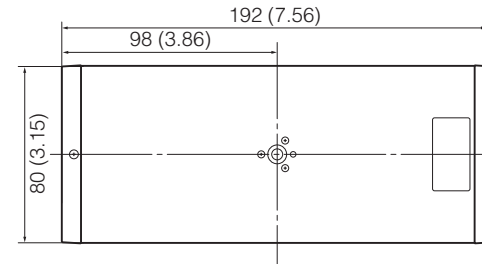
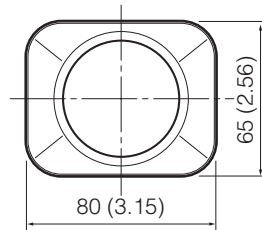
**PL** Należy skontaktować się ze sprzedawcą lub samemu zaopatrzyć się we wspornik montażowy. Należy użyć wspornika montażowego ze śrubami mocującymi krótszymi niż 5,5 mm.

**TH** คุณต้องปรึกษาผู้จำหน่ายหรือจัดหาแทนยึดสำหรับติดตั้งด้วยตนเอง ต้องแน่ใจว่าได้ใช้แทนยึดสำหรับติดตั้งที่มีสกรูติดตั้งที่สั้นกว่า 5.5 มม.

**KO** 설치 브래킷은 고객께서 준비해 주시거나, 판매점에 상담해 주십시오. 설치 브래킷은 설치 나사의 길이가 5.5mm 미만의 것을 사용해 주십시오.

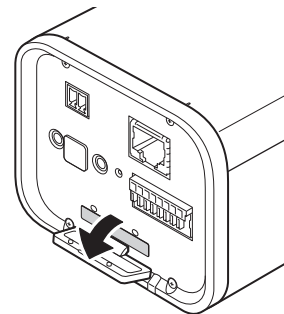
**ZH** 必须咨询零售商或自行准备安装支架。请确保使用安装螺钉短于 5.5 mm 的安装支架。

VB-H730F Mk II

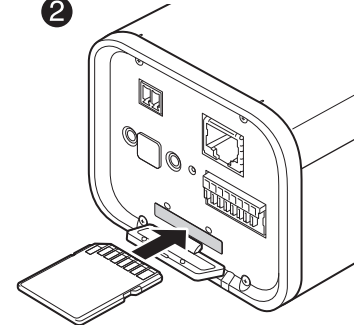


mm (pulg./po)

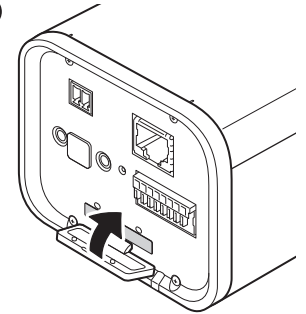
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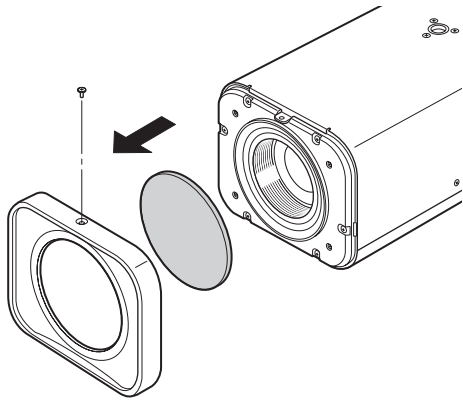
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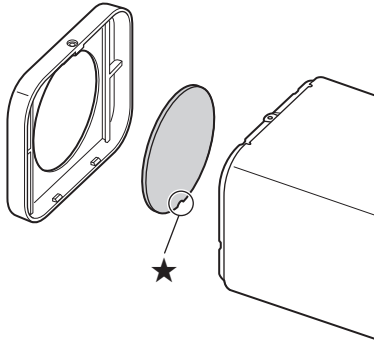


SD



- JA** カメラを市販のカメラハウジング内に取り付けて使用する場合は、ハウジング内の余分な反射の影響を避けるために、カメラの保護板を取り外してください。
- EN** When using the camera mounted in commercial camera housing, remove the camera's protection plate to reduce the effects of excess reflections within the housing.
- DE** Wenn die Kamera mit einem handelsüblichen Kameragehäuse verwendet wird, entfernen Sie die Schutzplatte, um übermäßige Reflexionen innerhalb des Gehäuses zu vermeiden.
- ES** Cuando utilice la cámara montada en la carcasa comercial para la cámara, retire la placa de protección de la cámara para reducir los efectos del exceso de reflejos en el interior de la carcasa.
- FR** Si vous montez la caméra dans un boîtier du commerce, retirez la plaque de protection de la caméra pour limiter les reflets à l'intérieur du boîtier.
- IT** Quando si utilizza la telecamera montata in un alloggiamento della telecamera commerciale, rimuovere la piastra di protezione della telecamera per ridurre gli effetti di riflessioni eccessive all'interno dell'alloggiamento.
- RU** При использовании камеры в кожухе стандартного исполнения снимите защитную планку камеры для уменьшения отблесков внутри кожуха.

- TR** Kamerayı ticari kamera muhafazasına monte edilmiş olarak kullanırken, muhafazada aşırı yansımaların etkisini azaltmak için kameranın koruma plakasını çıkarın.
- PL** W przypadku używania kamery zamontowanej w dostępnej na rynku obudowie kamery należy usunąć płytkę ochronną kamery, aby zmniejszyć efekt nadmiernych odbić wewnątrz obudowy.
- TH** เมื่อใช้งานกล้องที่ติดตั้งในกล่องติดตั้งกล้องที่จำหน่ายทั่วไป ให้นำแผ่นป้องกันกล้องออกมา เพื่อลดผลกระทบที่เกิดจากการสะท้อนภายในกล่องติดตั้ง
- KO** 카메라를 사업용 카메라 하우징내에 달아서 사용하는 경우, 카메라 보호 플레이트를 제거하여 하우징 내에서의 과도한 반사효과를 줄여 주십시오.
- ZH** 如果使用的摄像机安装了市面有售的外壳，请移除摄像机的保护板，以降低外壳内过度反射的影响。



- JA** 取り外した保護板を取り付けるときは、切り欠きがある面をレンズ面に向けて取り付けてください。(★)
- EN** When reattaching the protection plate, face the side with the cutout toward the lens. (★)
- DE** Wenn Sie die Schutzplatte wieder einsetzen, richten Sie die Seite mit dem Ausschnittsteil auf die Linse aus. (★)
- ES** Cuando vuelva a colocar la placa de protección, oriente el lado del corte hacia el objetivo. (★)
- FR** Lorsque vous remontez la plaque de protection, orientez le côté avec l'encoche vers l'objectif. (★)
- IT** Quando si fissa di nuovo la piastra di protezione, rivolgere il lato con il ritaglio verso l'obiettivo. (★)
- RU** Повторно устанавливая защитную планку, направляйте ее вырезкой к объективу. (★)

- TR** Koruma plakasını yeniden takarken, kesik kısmını içeren tarafını lense dönük tutun. (★)
- PL** Podczas ponownego mocowania płytki ochronnej należy ustawić bok z wycięciem w kierunku obiektywu. (★)
- TH** เมื่อนำแผ่นป้องกันใส่กลับเข้าไปใหม่ ให้หันด้านที่มีช่องเจาะเข้าหาเลนส์ (★)
- KO** 보호 플레이트를 재장착할 경우, 잘라낸 면을 렌즈쪽을 향해서 달아 주십시오. (★)
- ZH** 重新安装保护板时，将带挖除口的一侧朝向镜头。(★)