

FLEXIDOME multi 7100i IR

NDM-7712-AL | NDM-7713-AL | NDM-7714-AL

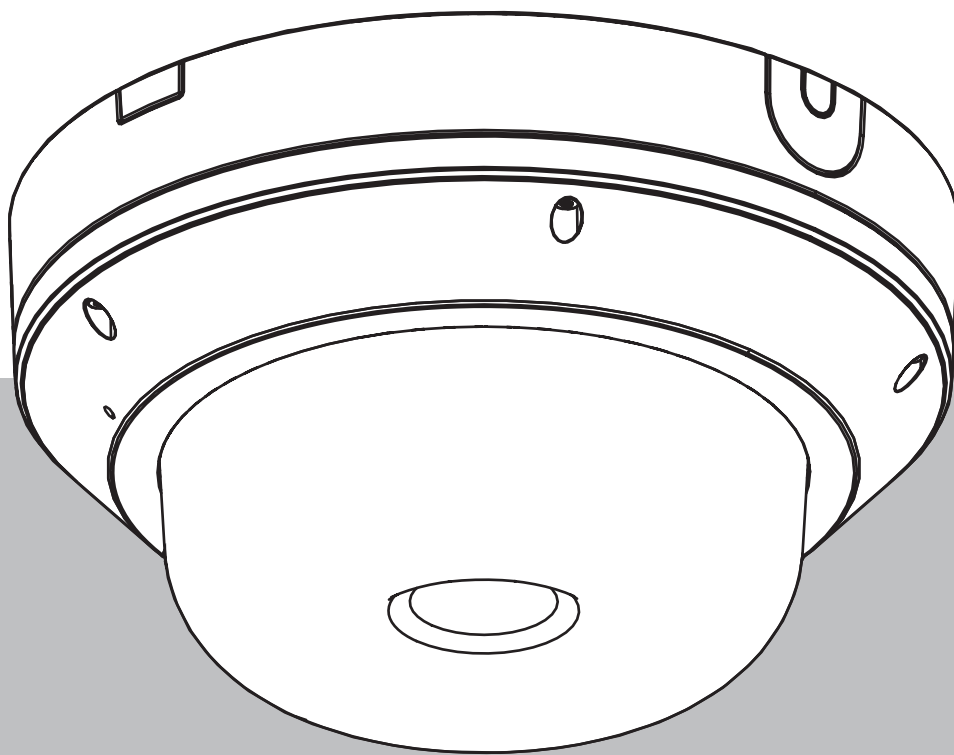


Table of contents

1	Safety and security information	4
1.1	Safety message explanation	4
1.2	Safety precautions	4
1.3	Important safety instructions	4
1.4	Notices	5
2	Short information	7
3	System overview	8
3.1	Product description	8
3.2	Intended use	9
4	Planning information	10
4.1	Unpacking	10
4.2	Parts included	10
4.3	Preparation	11
4.4	Network and PoE++	11
5	Installation	12
5.1	Installing the mounting plate	12
5.1.1	Installing the mounting plate without conduit	13
5.1.2	Installing the mounting plate with conduit	14
5.2	Installing the camera base	15
5.2.1	Before the installation	15
5.2.2	Installation steps	18
5.2.3	Wiring the camera base	22
5.2.4	Connecting a wireless USB dongle	24
5.3	Setting the position of each of the four lenses	25
5.3.1	Panning each of the four lenses over the ring	25
5.3.2	Tilting each of the lenses	26
5.3.3	Rotating each of the four lenses	27
5.3.4	Rolling each of the four lenses	29
5.4	Installing the camera dome cover	31
5.5	Optional mounting accessories	32
6	Configuration	36
6.1	Project Assistant app	36
6.2	Configuration via web browser	36
6.2.1	Set-up via web browser	36
7	Troubleshooting	38
7.1	Resolving problems	38
7.2	Testing the network connection	39
7.3	Customer service	39
8	Maintenance	41
8.1	Cleaning	41
8.2	Repair	41
8.3	Reset	41
9	Decommissioning	43
9.1	Transfer	43
9.2	Disposal	43

1 Safety and security information

Read, follow, and retain for future reference all of the following safety instructions. Follow all warnings before operating the device.

1.1 Safety message explanation

In this manual, the following symbols and notations are used to draw attention to special situations:

**Danger!**

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**Warning!**

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**Caution!**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**Notice!**

Indicates a situation which, if not avoided, could result in damage to the equipment or environment, or data loss.

1.2 Safety precautions

**Caution!**

Installation should only be performed by qualified service personnel in accordance with the National Electrical Code (NEC 800 CEC Section 60) or applicable local codes.

**Caution!**

The product must be supplied only by an external source having an output complying with PS2 or Annex Q conform to IEC 62368-1 and UL62368-1.

1.3 Important safety instructions

- To clean the device, do not use liquid cleaners or aerosol cleaners.
- Do not install the device near any heat sources such as radiators, heaters, stoves, or other equipment (including amplifiers) that produce heat.
- Do not spill liquids on the device before installation is completed.
- Take precautions to protect the device from power and lightning surges.
- If powered by a power adapter, the adapter should be properly grounded. The power cord must be connected to a socket or outlet with a ground connection.
- Use green/yellow (green with yellow stripe) ground wires.
- Adjust only those controls specified in the operating instructions.
- Operate the device only from the type of power source indicated on the label.

- Unless qualified, do not attempt to service a damaged device yourself. Refer all servicing to qualified service personnel.
- Install in accordance with the manufacturer's instructions in accordance with applicable local codes.
- Use only attachments/accessories specified by the manufacturer.
- Protect all connection cables from possible damage, particularly at connection points.

Power supply requirements

The Low Voltage power supply unit used must comply with EN 62368-1:

- CAT5 Ethernet cable or plus is required.
- For PoE connections with either IR or non-IR models, the adapter must be rated PoE Class 5 (PoE IEEE 802.3bt Type 3).
- For connections with an adapter, the following minimum requirements must be met:
 - For IR models, the adapter must be rated 24 VDC, 1.71A min. or 24 VAC, 50/60Hz, 1.74 A min.
 - For non-IR models, the adapter must be rated 24 VDC, 1.23A min. or 24 VAC, 50/60Hz, 1.25 A min.

**Notice!**

Insufficient power supply capacity may cause unstable operation or damage to the camera.

Terminal block installation

To install the terminal block, the following is required:

- Wiring must be installed and connected by a certified professional.
- Make sure to use an AWG 24-16 cable for the terminal block.
- Make sure to use a UL certified cable.
- Make sure to use a wire type Cu.

**Notice!**

Make sure that the terminal block is installed by qualified personnel and that all connections are secure. Improper wiring or loose contacts may result in malfunction or damage to the camera.

1.4

Notices

UL Disclaimer

Underwriter Laboratories Inc. ("UL") has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested fire, shock and/or casualty hazards as outlined in Standard(s) for Safety for Information Technology Equipment, UL 62368-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product.

UL MAKES NO REPRESENTATIONS, WARRANTIES, OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING-RELATED FUNCTIONS OF THIS PRODUCT.

FCC Supplier's Declaration of Conformity

FLEXIDOME multi 7100i: NDM-7712-A, NDM-7713-A, NDM-7714-A

FLEXIDOME multi 7100i IR: NDM-7712-AL, NDM-7713-AL, NDM-7714-AL

Compliance statement

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.

Responsible party

IQSIGHT LLC

130 Perinton Parkway

Fairport NY 14450, USA

www.iqsight.com

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada

CAN ICES-003(A) / NMB-003(A)

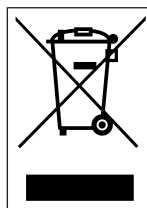
This Class A digital apparatus complies with Canadian ICES-003.

Use latest software

Before operating the device for the first time, make sure that you install the latest applicable release of your software version. For consistent functionality, compatibility, performance, and security, regularly update the software throughout the operational life of the device. Follow the instructions in the product documentation regarding software updates.

The following link provides general information and information on security advisories, that is a list of identified vulnerabilities and proposed solutions: <https://www.iqsight.com/en/support/product-security/>

We assume no liability whatsoever for any damage caused by operating its products with outdated software components.

Old electrical and electronic equipment

This product and/or battery must be disposed of separately from household waste. Dispose such equipment according to local laws and regulations, to allow their reuse and/or recycling. This will help in conserving resources, and in protecting human health and the environment.

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.

**Notice!**

This product has been tested according to standard IEC62471:2006 "Photobiological safety of lamps and lamp systems". The product emissions meets the EXEMPT Group limit for Cornea/Lens infrared hazard as defined by IEC 62471:2006. The product was found to meet the EXEMPT Group exposure limits for IR LEDs.

2

Short information

This manual has been compiled with great care and the information it contains has been thoroughly verified. The text was correct at the time of publication, however, the content can change without notice. IQSIGHT accepts no liability for damage resulting directly or indirectly from faults, incompleteness or discrepancies between this manual and the product described.

Copyright

This manual is the intellectual property of IQSIGHT and is protected by copyright.
All rights reserved.

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

More information

For more information please contact the nearest IQSIGHT location or visit www.iqsight.com



<https://commerce.iqsight.com/us/en>

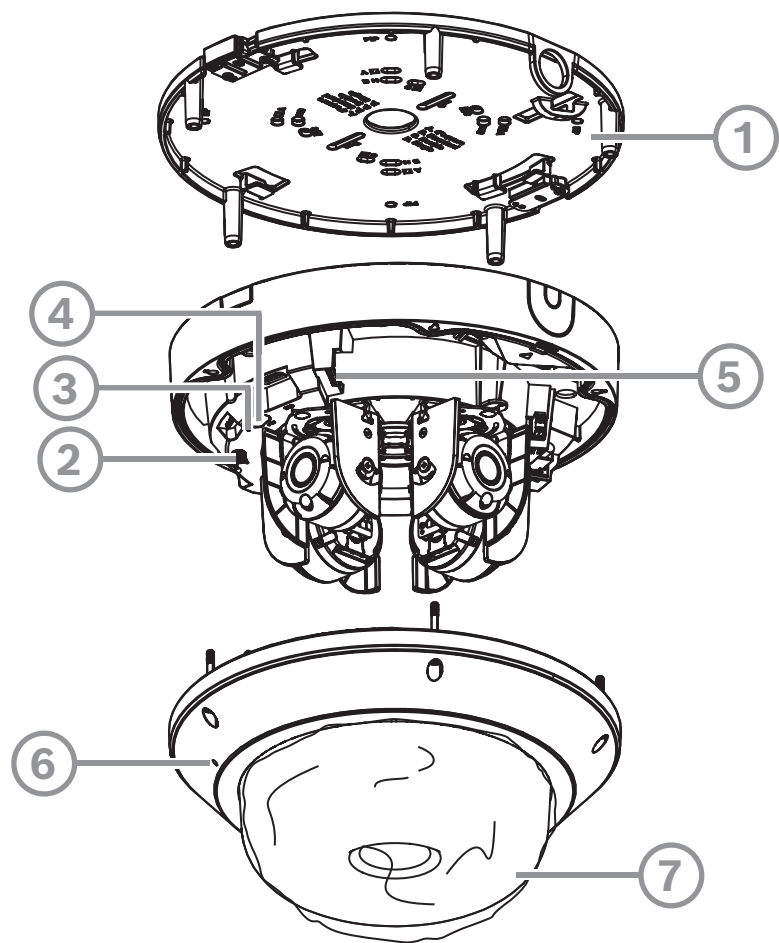
3 System overview

3.1 Product description

The FLEXIDOME multi 7100i IR camera delivers powerful, high-performance surveillance with four independent imagers and motorized zoom/focus lenses — all in one intelligent camera. Designed to simplify installation and reduce total system costs, it provides unmatched flexibility without compromising coverage.

With four scenes captured simultaneously, it's the ideal solution for wide areas, traffic intersections, and building corners. When ceiling-mounted, it delivers full 360° coverage; when corner-mounted, it provides 270° visibility. Advanced zoom capabilities enable clear, detailed monitoring even at longer distances.

Product overview



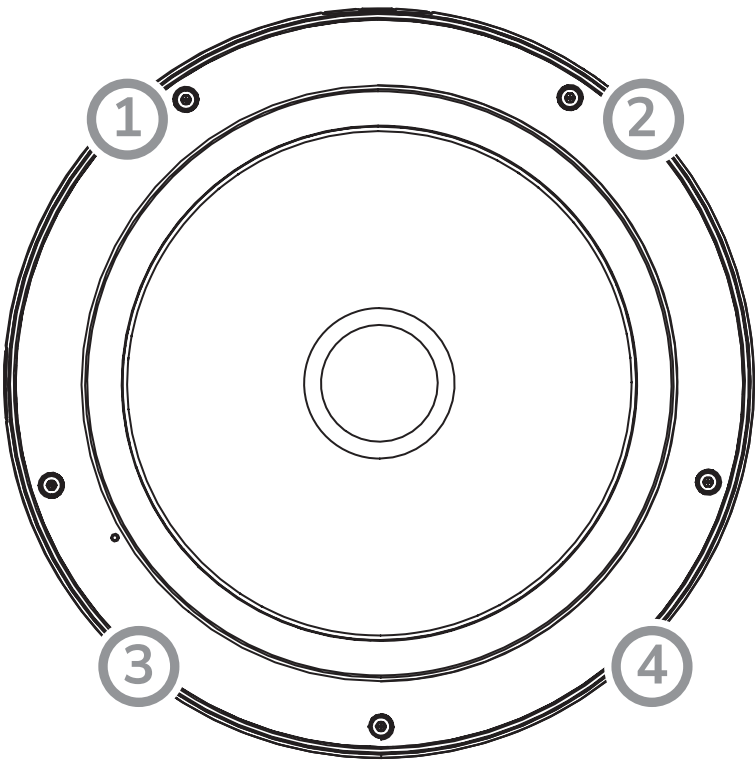
1	Mounting plate
2	Reset button
3	LED
4	USB-C port
5	8-pin Audio and I/O connector
6	Microphone
7	Camera dome cover

LED behavior description

LED behavior	Description
Red LED lights up	Startup is in progress.
Red LED flashes	The unit is faulty, for example following failed firmware upload. Refer to Resolving problems.
Green LED lights up	The unit is switched on and startup is completed.
Green LED flashes	Video connection is active.

IR LED location

The camera has 4 IR LEDs. The 4 IR LEDs can be controlled individually in the configuration of the camera.



1-4	Location of the IR LEDs 1-4		
-----	-----------------------------	--	--

3.2

Intended use

The camera is designed to be integrated in professional IP video surveillance solutions as a surveillance camera. Installation, commissioning and operation of the camera shall be carried out by trained professionals only.

The use of surveillance cameras is restricted by national laws and regulations. Use the camera accordingly.

4 Planning information

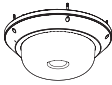
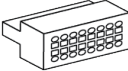
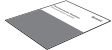
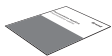
4.1 Unpacking

This equipment should be unpacked and handled with care. If an item appears to have been damaged in shipment, notify the shipper immediately.

Verify that all parts are included. If any items are missing, notify your sales or customer service representative.

The original packaging is the safest container in which to transport the unit and can be used if returning the unit for service.

4.2 Parts included

	Quantity	Component
	1	Mount plate
	1	Camera base
	1	Camera dome cover
	1	TR20 Allen key
	1	8-pin Audio and I/O connector
	1	2-pin power connector
	1	RJ-45 punch-through aid
	2	M20 rubber grommets (attached to the camera)
	1	Quick installation guide
	1	Safety information

	Quantity	Component
	3	Identification labels

4.3 Preparation

Before installation, prepare and plan the installation process and materials needed.

Pre-requisites

- Remove the components from the box. Make sure that all parts are included and are not damaged.
- The necessary material and equipment:
 - 4 screws M4 or M5 and mounting plugs M4 or M5 are necessary.
 - Appropriate size power drill.
 - Screwdriver and bit holder for TR20 bit, or use the provided TR20 Allen key.
 - microSD cards (optional)

Note: We recommend the use of industrial microSD cards with health monitoring. In low-temperature environments, microSD card performance may depend on the card specification. Use a card rated for the expected operating temperature range.

- Wireless USB dongle (NCA-WLAN) for wireless commissioning (optional).

4.4 Network and PoE++



Notice!

Camera supports PoE++ and PoE+

PoE 802.3bt Type 3 Class 5 is required for an operating temperature range of -50 °C to +55 °C (-58 °F to +131 °F) and full IR/heater functionality.

PoE 802.3at Type 2 Class 4 limits the operating temperature range to -20 °C to +55 °C (-4 °F to +131 °F), and IR/heater functionality is restricted (IR and heater off).

Power-over-Ethernet Plus Plus (PoE++) can be connected at the same time as a 24 VAC or 24 VDC power supply. If auxiliary power (24 VAC or 24 VDC) and PoE++ are applied simultaneously, the camera draws its power from PoE++ by default, and seamlessly switches to auxiliary input if PoE++ fails. When PoE++ returns, the camera seamlessly switches back to PoE++ as its default power source. The camera has an integrated heater. The heater works only when PoE IEEE 802.3bt Type 3 Class 5 is used. In this case, the camera operates at lower temperatures down to -50 °C (-58 °F).

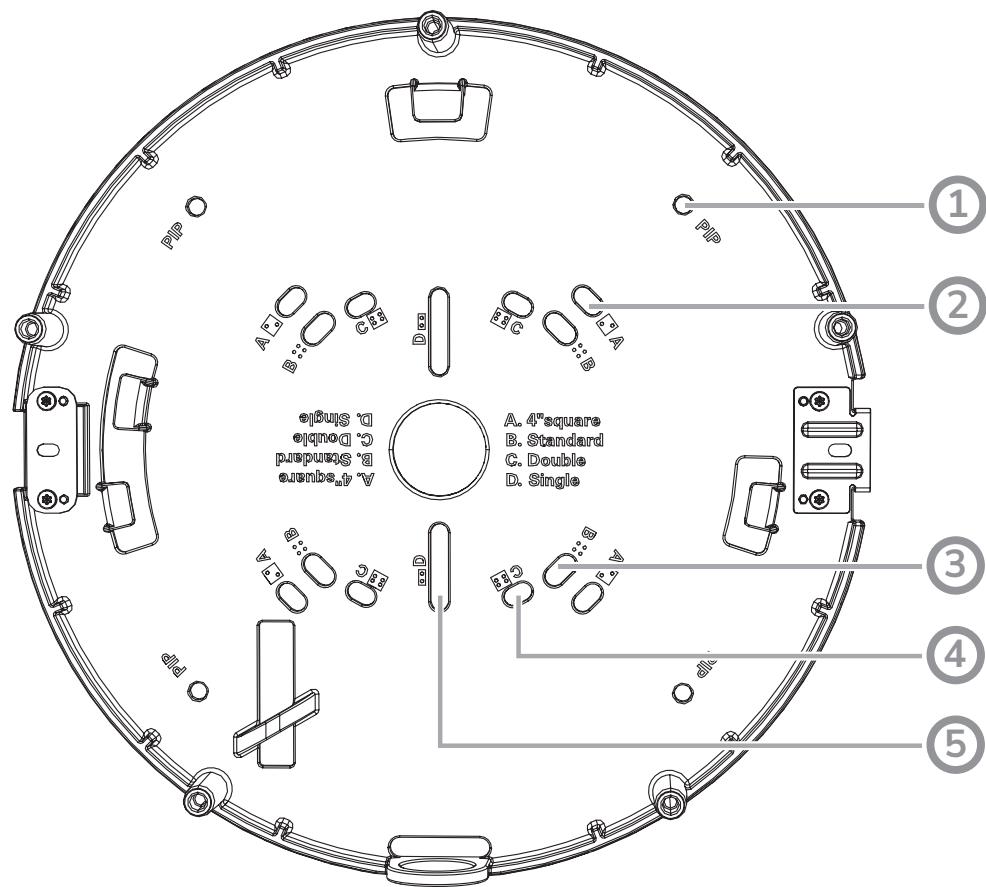
Cables

For cable requirements, refer to Wiring the camera base.

5 Installation

5.1 Installing the mounting plate

The mounting plate is used to fix the camera to a flat surface. It offers different holes and slots for a variety of fixing options.



1	PIP Mounting holes for installation with NDA-7052-PIPW. Required screws are provided with NDA-7052-PIPW.	2	A Mounting holes for 4 in. or 4S electrical box installation. There are four mounting holes available on the mounting plate, but you need only two for the installation. You can install the mounting plate in different orientations.
3	B Mounting holes for standard wall or ceiling installation. Use four screws. If required, use plugs (for concrete walls/ceilings).	4	C Mounting holes for double gang box installation. Align the mounting plate with the four screw holes in the electrical gang box.
5	D Mounting holes for single gang box. Align the two slotted holes on the mounting plate with the two screw holes in the electrical gang box.		

Installation options

The camera has two configurations for surface mounting:

- Refer to Installing the mounting plate without conduit, if the wires are not on the outside of the surface.
- Refer to Installing the mounting plate with conduit, if the wires are on the outside of the surface.

Additionally, the camera can cover various mounting options when combined with the available accessories. Refer to Optional mounting accessories for the available accessories.



Notice!

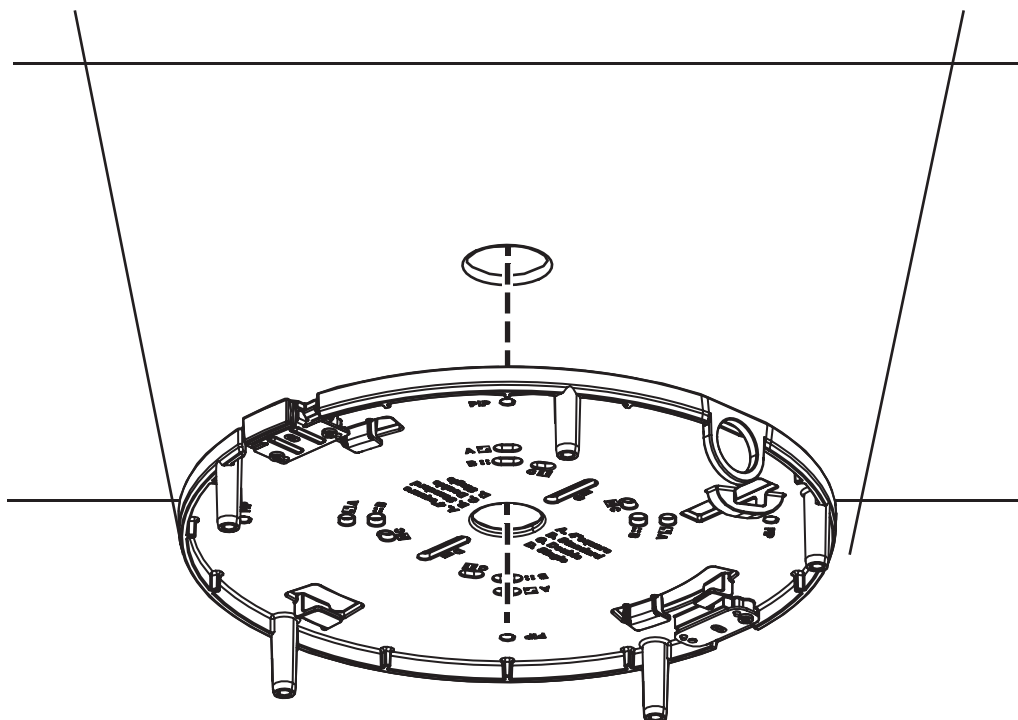
The plugs and screws for surface mounting are not supplied with the camera.

5.1.1

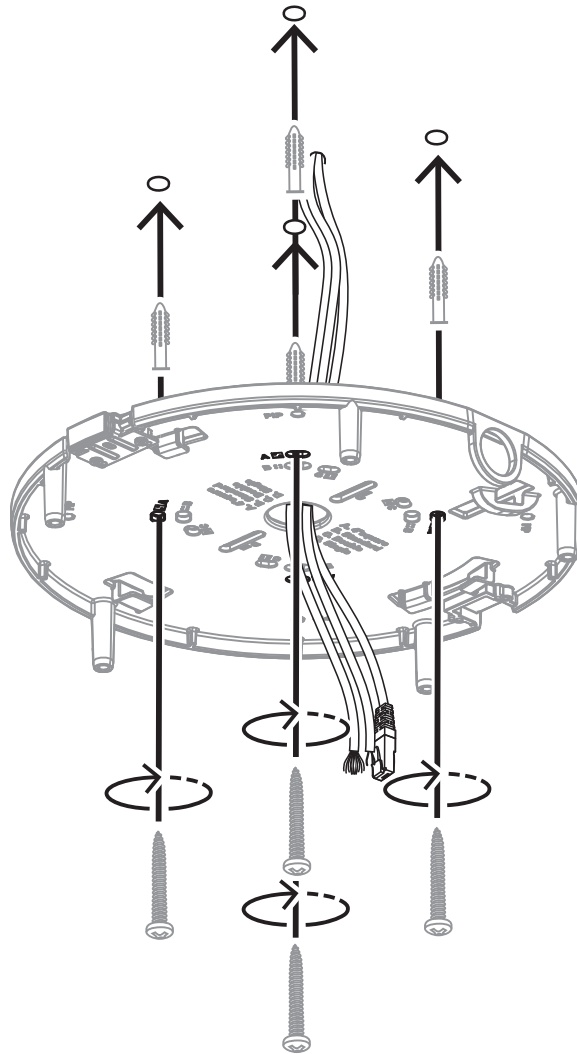
Installing the mounting plate without conduit

1. Remove the mounting plate from the box.
2. Position the mounting plate with the center hole on top of the cable exit on the surface, and mark the positions of the screw holes on the surface.

For standard installation, use the mounting holes marked with a B on the mounting plate. For a different installation, for example for an installation on an electrical box, use different mounting holes. For more information, refer to Installing the mounting plate.



3. Drill the 4 holes with the appropriate diameter drill to support your 5-6 mm (0.2 inch) screws and plugs.
4. Install 4 plugs in the holes.
5. Put the cable through the center hole of the mounting plate.
6. Attach the mounting plate to the surface with 4 screws. Tighten the screws between 4 and 7 Nm (3 and 5.2 lbfft).

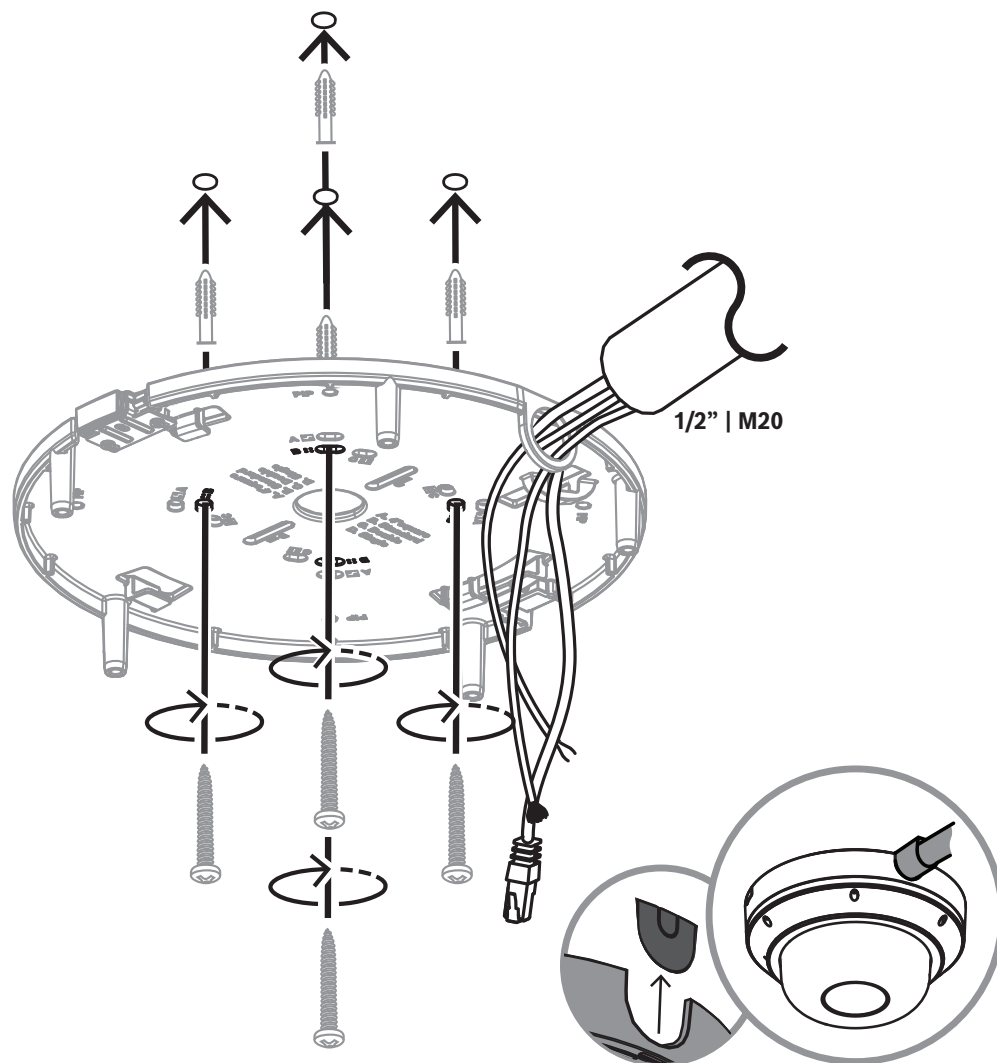


5.1.2

Installing the mounting plate with conduit

The camera design allows for an installation with a conduit pipe (sold separately), without the necessity of using additional hardware.

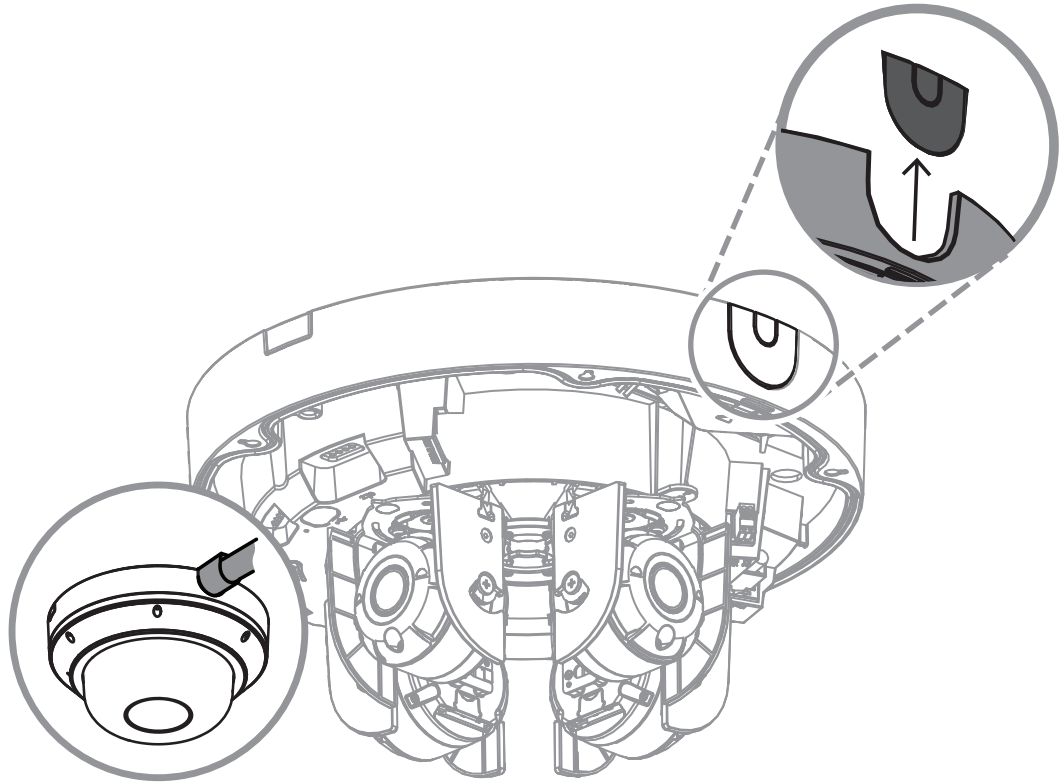
1. Remove the mounting plate from the box.
2. Mark the positions of the holes on the surface. The mounting plate has only one side available for the conduit. Make sure to position it accordingly.
For standard installation, use the mounting holes marked with a B on the mounting plate. For a different installation, for example for an installation on an electrical box, use different mounting holes. For more information, refer to Installing the mounting plate.
3. Use 4 screws that are suitable for the surface and the type of installation. If needed for the surface, drill 4 holes to fit plugs. Make sure that the plugs fit tightly. Use the appropriate diameter drill to support 5 - 6 mm (0.2 inch).
4. Attach the mounting plate to the surface with 4 screws.
5. Run the cable through the conduit pipe and into the camera entry slot.
6. Attach the conduit to the camera entry slot.



5.2 Installing the camera base

5.2.1 Before the installation

1. Remove the camera base from the box.
2. If the installation of the mounting plate was done with the conduit, remove the door on the camera base as shown in the image.



Grounding

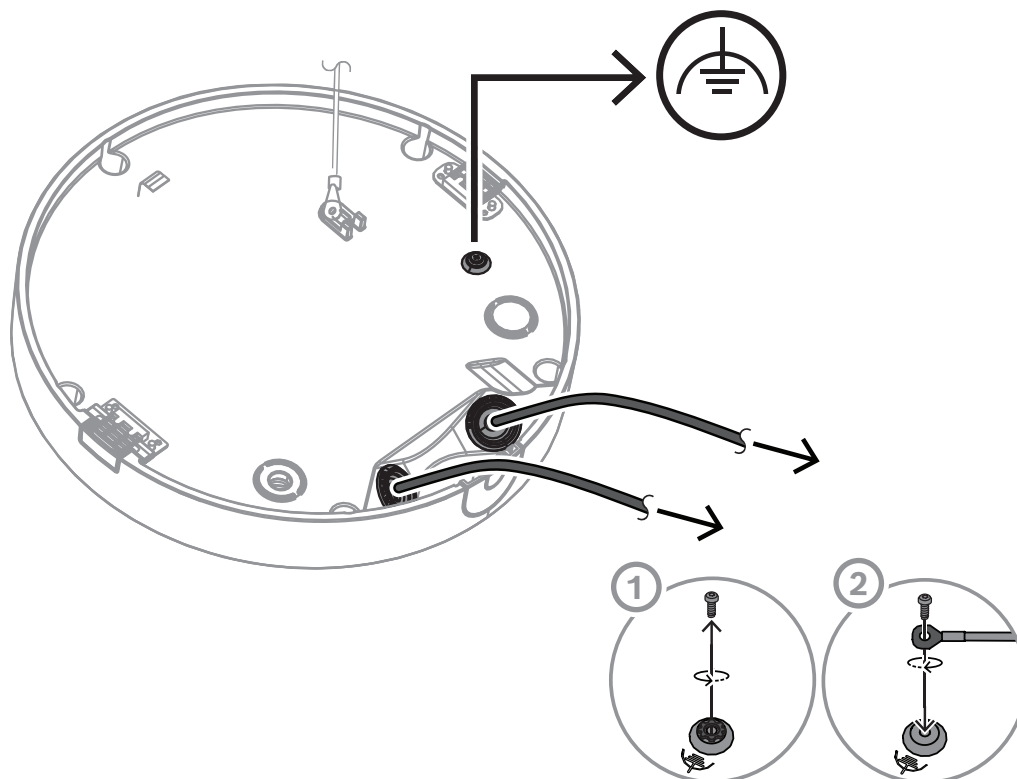


Warning!

Trained electricians only!

Work at electric appliances must only be carried out by qualified technicians.

1. Remove the screw from the bottom of the camera base.
2. Install the ring terminal (not supplied with the camera) on the screw.
3. Hold the camera base and attach the screw with the grounding cable.



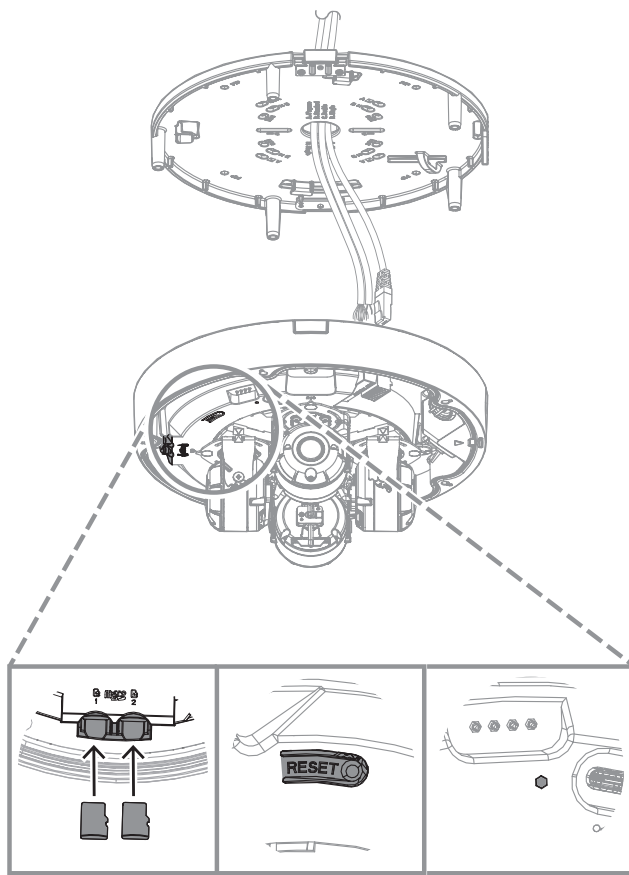
Local storage



Notice!

We recommend the use of industrial micro SD cards with health monitoring when available. For installation environments at -25 °C (-13 °F) or below, use an industrial microSD card specified for -40 °C (-40 °F) operation.

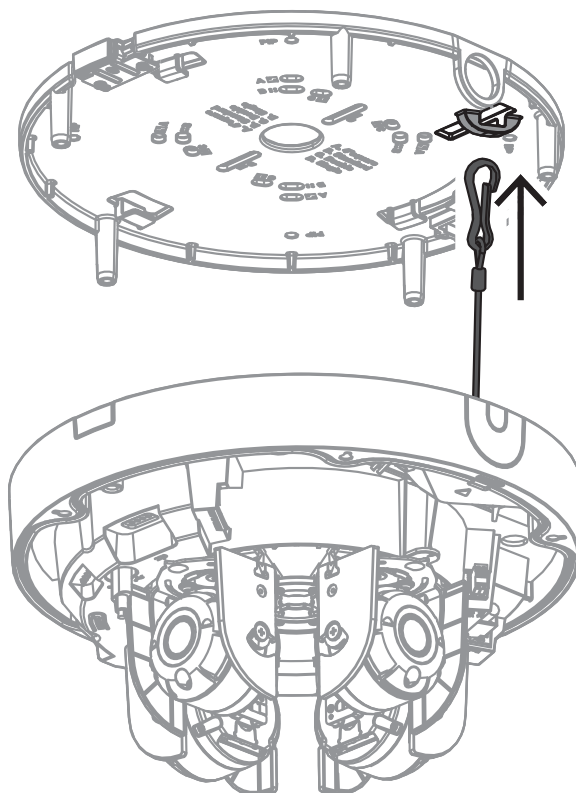
1. If necessary, install a micro SD card in the micro SD slot.
 - **Note:** the camera has two micro SD cards slot for recording redundancy options.
2. Press the micro SD card firmly until it latches into place in the slot.
3. To remove the card, press it into the slot until it unlatches again. Then, remove it from the SD slot.



5.2.2

Installation steps

1. Put the cord of the camera base through the hook on the mounting plate to secure the camera base during installation.



2. Put the RJ-45 punch-through aid on the network cable.



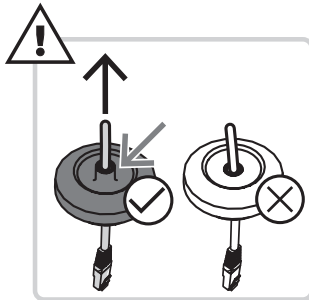
3. Remove the tubes from the M20 rubber grommets.
4. Put one M20 rubber grommet on the edge of the RJ-45 punch-through aid.



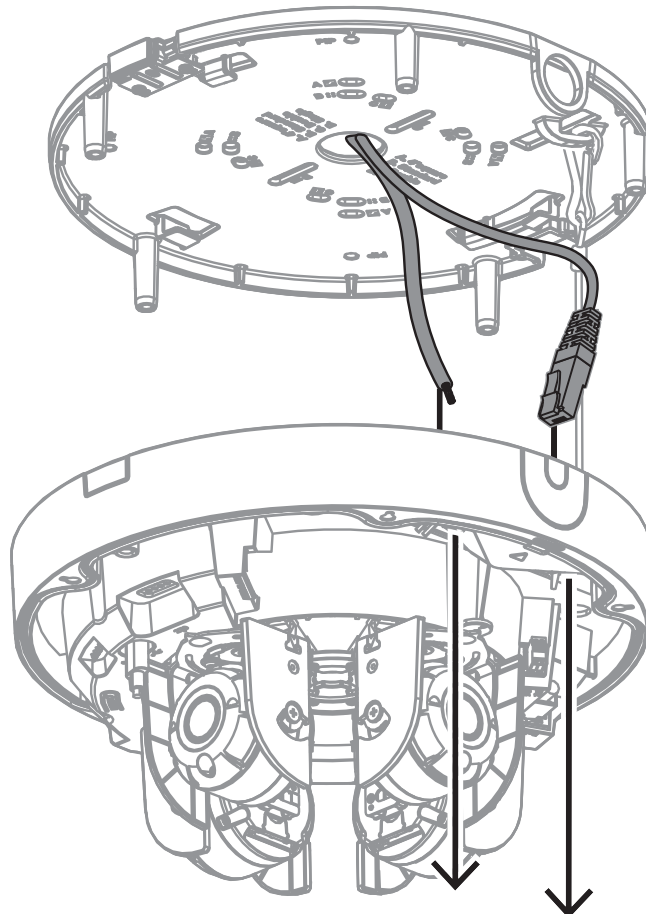
5. Pull the RJ-45 punch-through aid together with the network cable connector through the M20 rubber grommet. Leave about 13 cm (5 inch) between grommet and end of the cable.
6. Remove the RJ-45 punch-through aid.



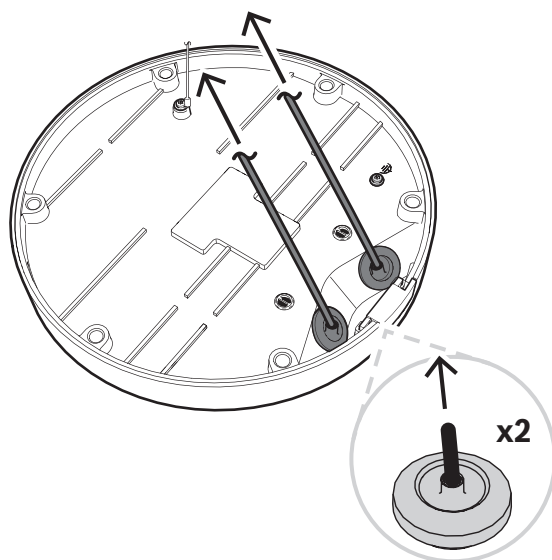
7. Put the other M20 rubber grommet on the edge of the auxiliary connections cable. Leave at least 5 cm (2 inch) between grommet and end of the cable.
8. Slightly pull back the M20 rubber grommets on both cables to make sure that the grommet sleeve faces the source of the cables.



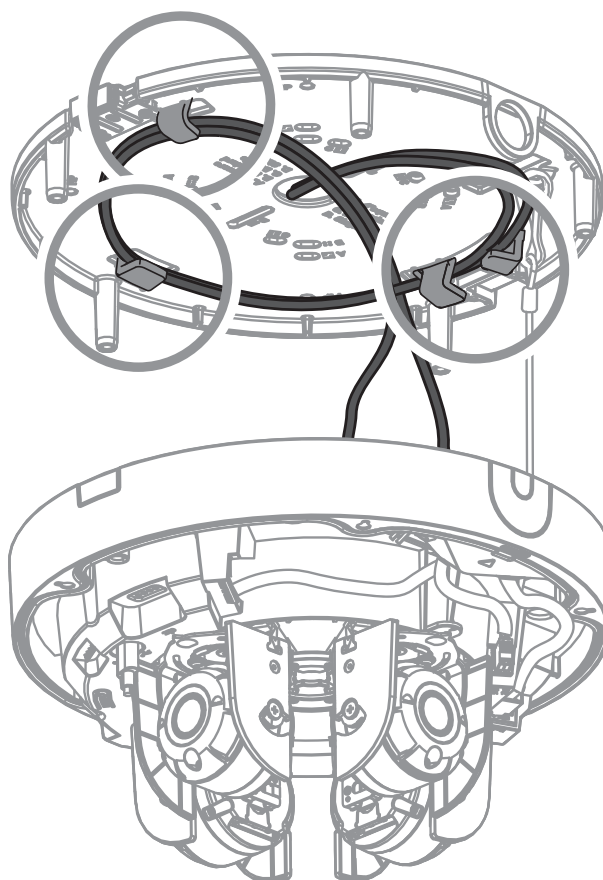
9. Put the network cable through the network cable inlet.
10. Put the auxiliary connections cable through the other cable inlet.



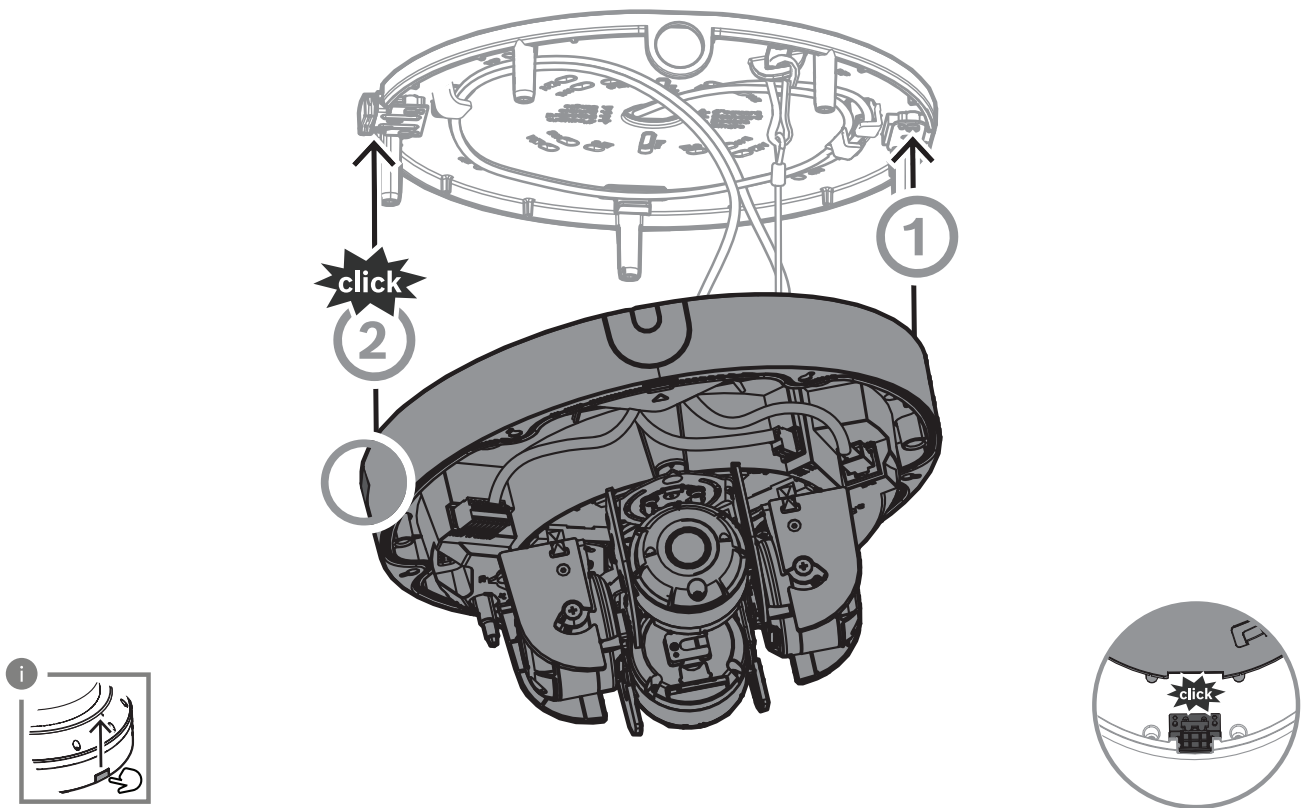
11. Fix the M20 rubber grommets in both cable inlets to make sure that the cable inlets are firmly closed.



12. If required, do a loop with the cable on the hooks of the mounting plate.



13. Position the camera base on the mounting plate, so that the screw holes of camera base and mounting plate match. Slightly press the camera base onto the mounting plate until you hear/feel a click. Make sure that the camera base is secured.



Removal of the camera base from mounting plate (when applicable)

1. Release the camera base from the mounting plate by pressing the button on the camera housing to disengage the locking mechanism.
2. Remove any cable loops from the mounting plate hooks (if applicable).
3. Pull auxiliary connections and network cables out of the respective cable inlets.
4. Adjust and slide the M20 rubber grommets to allow removal.
5. Remove the M20 rubber grommets from auxiliary connections and network cables.



Notice!

Be cautious when handling the M20 grommets to avoid damage.

6. Detach the camera base cord from the hook on the mounting plate.

5.2.3

Wiring the camera base

Network connection

1. Connect the network cable to the network connector.

Auxiliary connections - power connection



Notice!

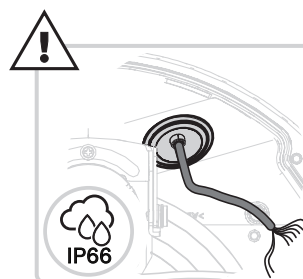
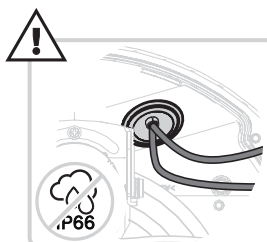
IP66 water/dust protection

For IP66 water/dust protection, use cables with a diameter of at least 5 mm.

**Notice!**

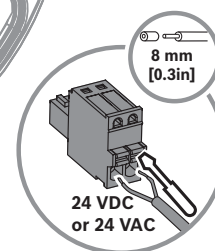
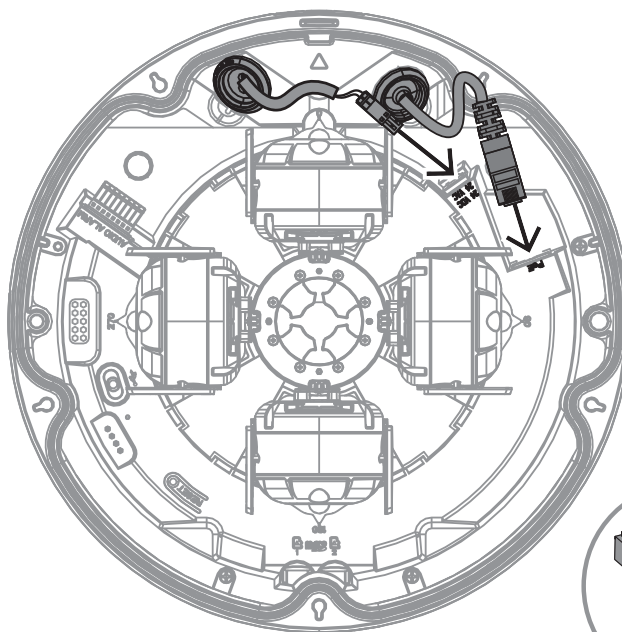
IP66 water/dust protection

If you split up the auxiliary connections into two cables before routing them through the M20 rubber grommet, the camera loses the IP66 water/dust protection. Route only one cable through the M20 rubber grommet to keep the IP66 water/dust protection.

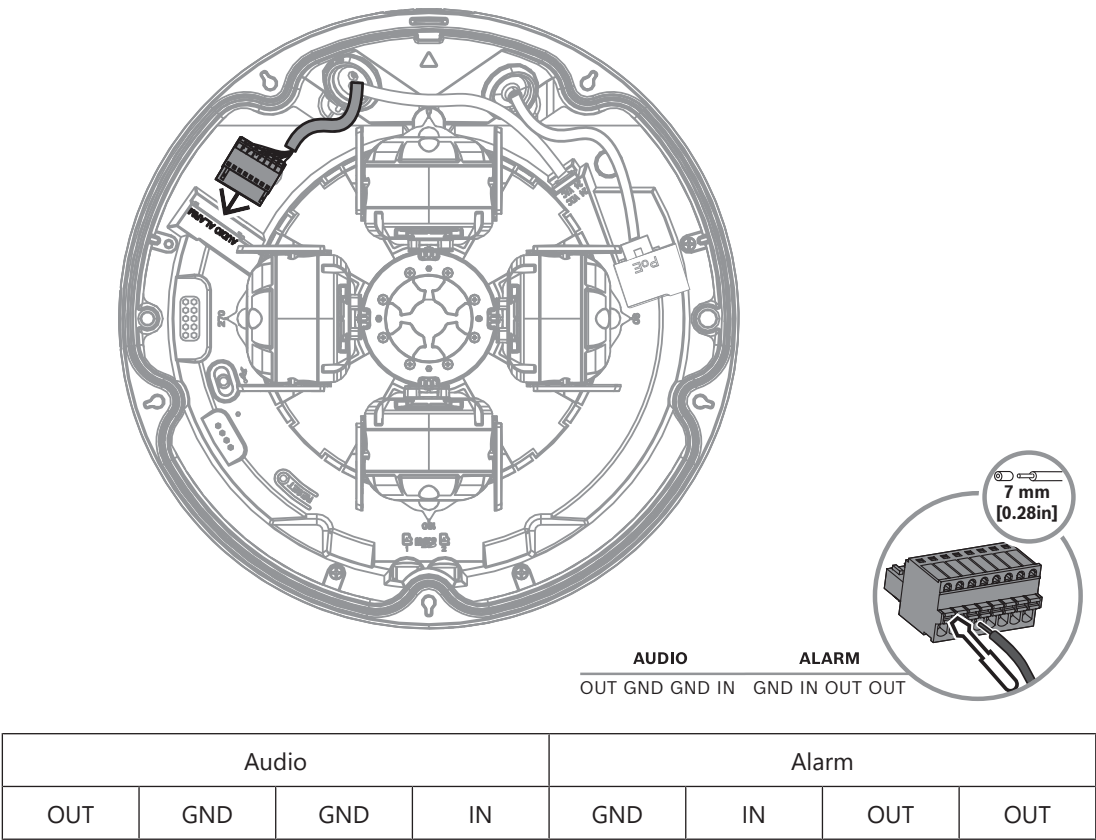
**Notice!**

If PoE++ or PoE+ is not available, use a 24 VAC or 24 VDC auxiliary power supply.

1. Remove 8 mm (0.3 inch) of the power wires insulation.
2. Connect the power wires to the 2-pin power connector.
3. Connect the 2-pin power connector to the power connector of the camera base.

**Auxiliary connections - audio and alarm connection**

1. Remove 7 mm (0.28 inch) of the audio and alarm wires insulation.
2. Connect the audio and alarm wires to the 8-pin Audio and I/O connector.

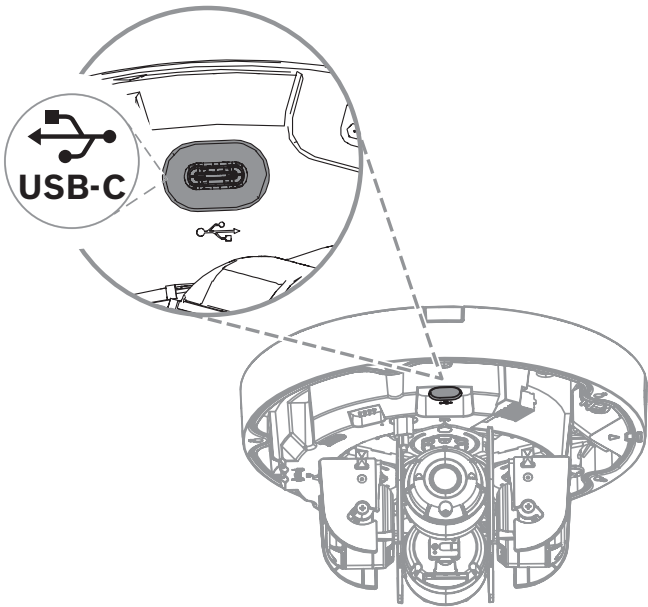


5.2.4

Connecting a wireless USB dongle

The camera is equipped with a USB-C port for a wireless USB dongle (sold separately), so that you can easily perform the initial configuration wirelessly. Using a mobile device with the Project Assistant app, you can do initial set-up and lens zoom-focus to find the right scene.

- 1. Connect the wireless USB dongle with a cable to the USB-C port on the camera base.

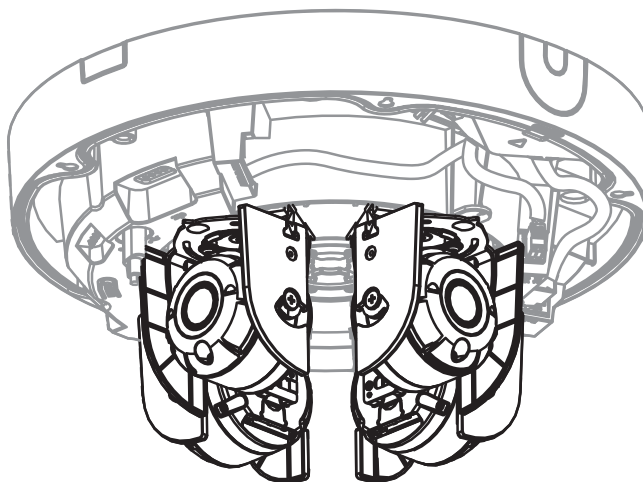


5.3 Setting the position of each of the four lenses

You can set the position of each multi-imager lens individually to achieve maximum flexibility.

You can do the following 4-axis lens adjustments:

1. Panning each of the four lenses over the ring: 0° to 360°
2. Tilting each of the four lenses: -10° to 100°
3. Rotating each of the four lenses: -45° to 45°
4. Rolling each of the four lenses: 0° to 352°



5.3.1 Panning each of the four lenses over the ring

**Notice!**

When panning or rolling the camera module, make sure that the internal cable has sufficient slack and is not twisted or entangled.

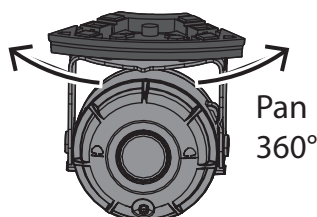
**Notice!**

Do not apply excessive force. Cable tension, twisting, or forced movement may cause malfunction or damage to the camera.

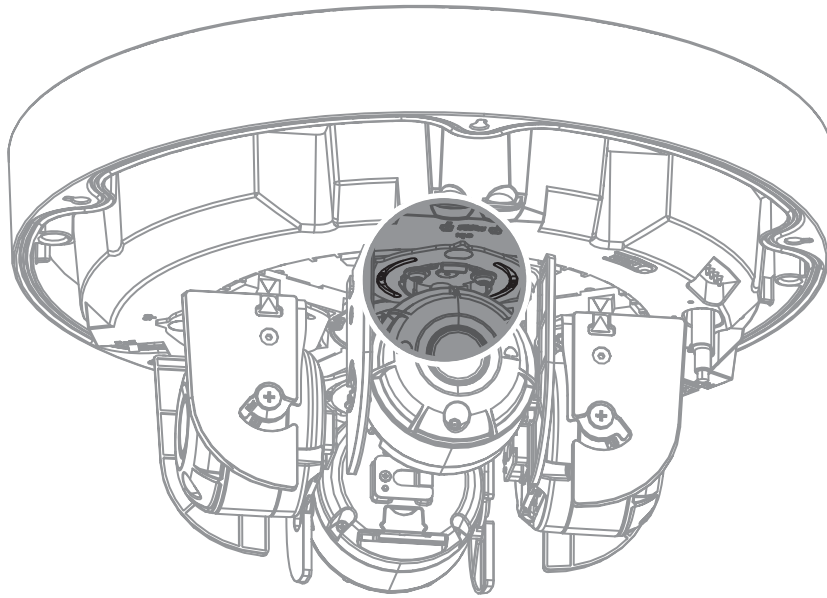
**Notice!**

The camera module pan range may be limited or unavailable to prevent interference.

1. Pan each of the four lenses to set the position that you need. You can pan 0° to 360° over the integrated transportation ring in the camera.



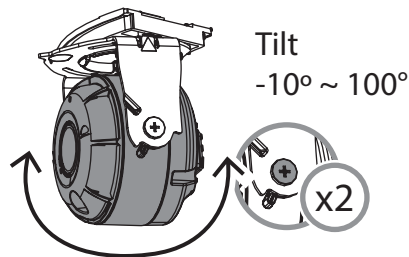
2. To set the camera in an optimal 360° overview position, pan each of the four lenses and ensure the arrow indicator on the lens aligns with the embossed marks on the camera base.



5.3.2

Tilting each of the lenses

1. Tilt the each of the four lenses to set the position that you need. You can tilt -10° to 100° .



Notice!

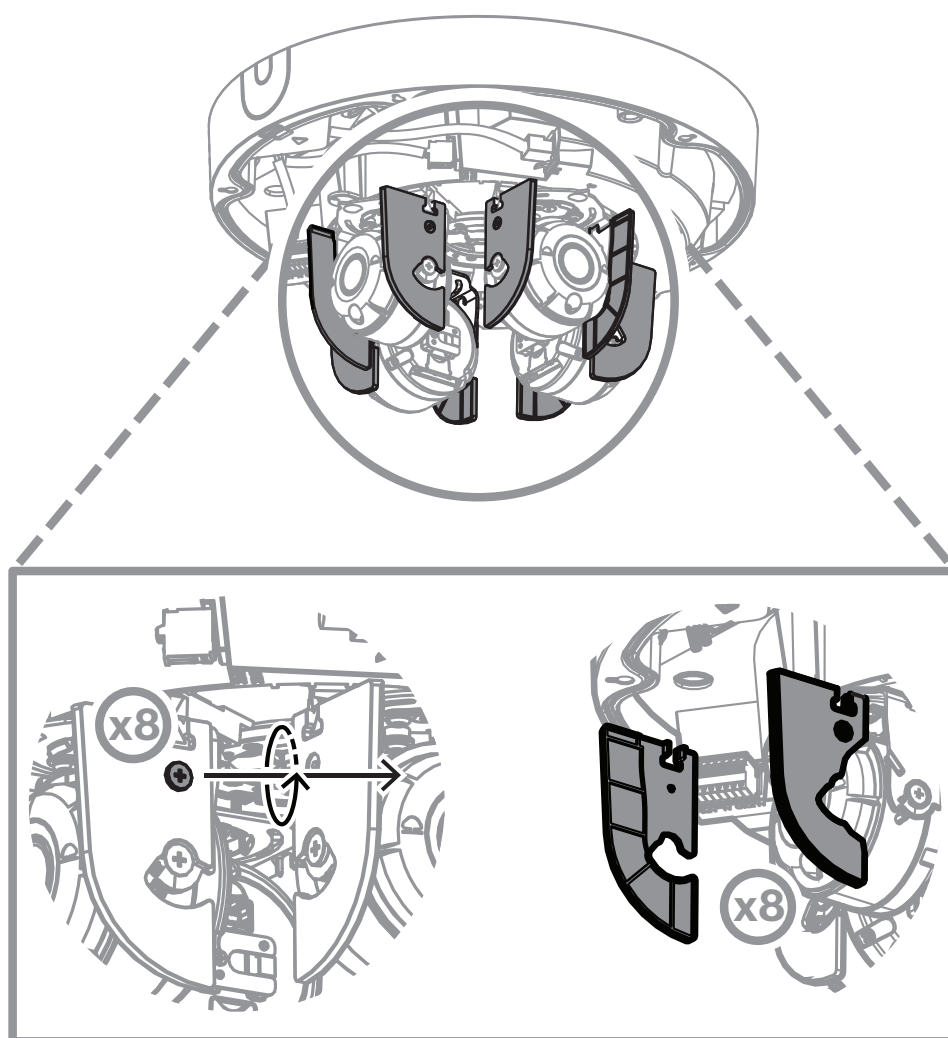
Due to the physical characteristics of the optical system, image appearance may vary slightly after tilting adjustment. Any differences before and after adjustment are normal.

2. Do not tilt each of the four lenses beyond the blur-zone marking on the tilt bracket. Tilting past this point can cause parts of the image to appear blurry. Use this position only in specific cases or when you need the lens to fully zoom in.



Notice!

Incorrect positioning or improper installation may cause contact with the dome bubble and result in scratches or other damage during adjustment or reassembly.



5.3.3

Rotating each of the four lenses



Notice!

IR lens shields must be uninstalled to rotate the four lenses. If you attempt to rotate the four lenses with the IR lens shields installed, the dome cover will not close and may come into contact with the dome bubble, which may result in scratches or other damage during adjustment or reassembly.

Keep the IR shields installed when:

- There are reflective surfaces are present near the camera.
- There are nearby walls, ceilings, housings, glass surfaces, or other objects may reflect IR light toward the lens.
- Nighttime images exhibit glare, haze, bright spots, ghosting, or reduced contrast caused by IR reflections.
- Lens rotation is not required.

Remove the IR shields only when:

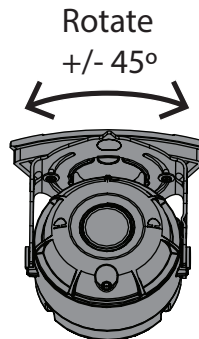
- Lens rotation is required to achieve the desired image orientation or field of view.
- The installation environment does not present a significant risk of IR reflections affecting image quality.
- Testing confirms that the required image quality can be achieved without the IR shields installed.

**Notice!**

The removal of the lens shield may impact image quality if the optical path is not restored or if the shield surface is contaminated or damaged.

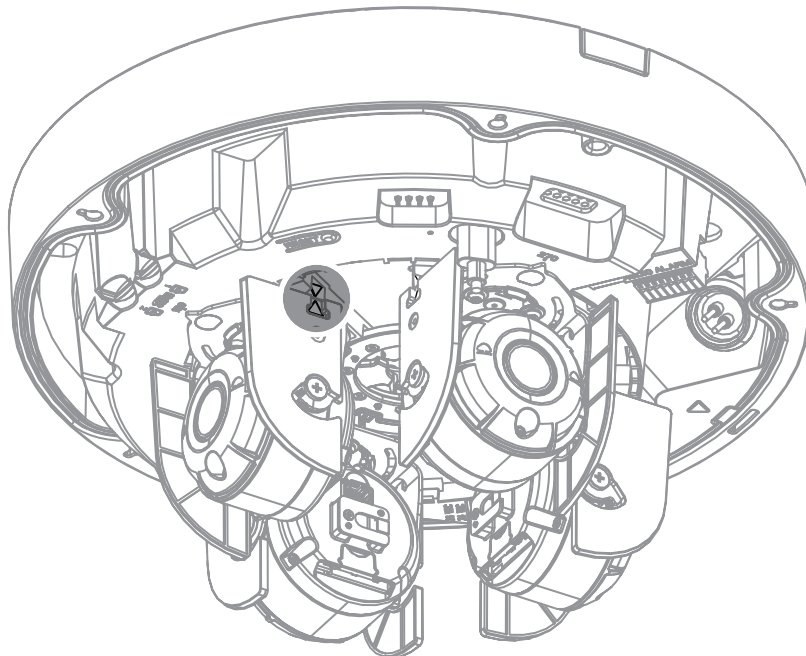
To rotate each of the four lenses:

1. Loosen the screw that secures the IR shield to the tilt bracket with a screwdriver.
2. Remove the IR shield.
3. Rotate each of the four lenses on the camera base to set the position that you need. You can rotate -45° to 45° .

**Notice!**

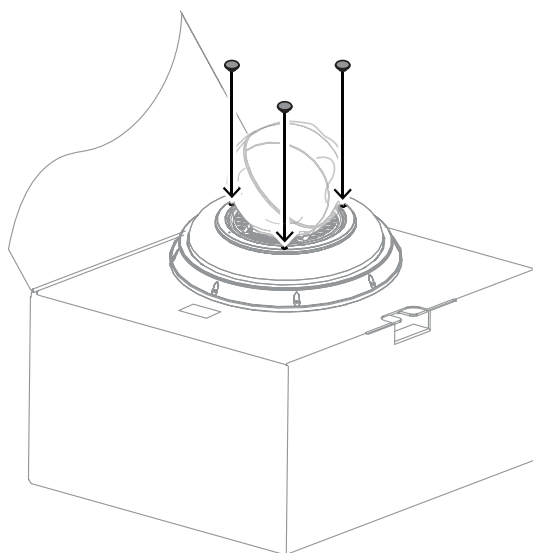
Due to the physical characteristics of the optical system, image appearance may vary slightly after rotating adjustment. Any differences before and after adjustment are normal.

4. To set the camera in an optimal 360° overview position, rotate the lens bracket so that the arrow on the tilt bracket aligns with the arrow on the tilt bracket base.

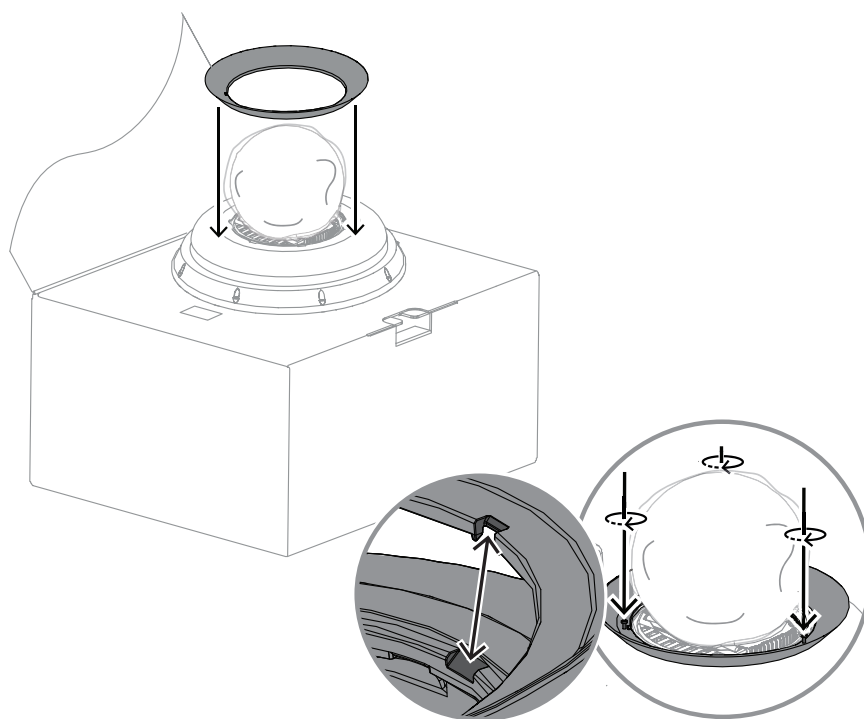
**Installing the IR lens shield**

To install back the IR lens shield:

1. Place the camera housing on a stable surface with the bubble facing upward.



2. Align the IR shield with the screw holes on the decorative ring.

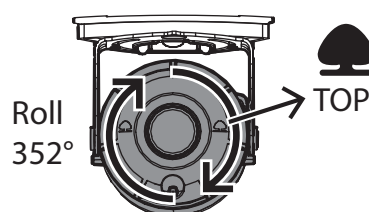


3. Tighten the screws with the supplied TR20 L-key.

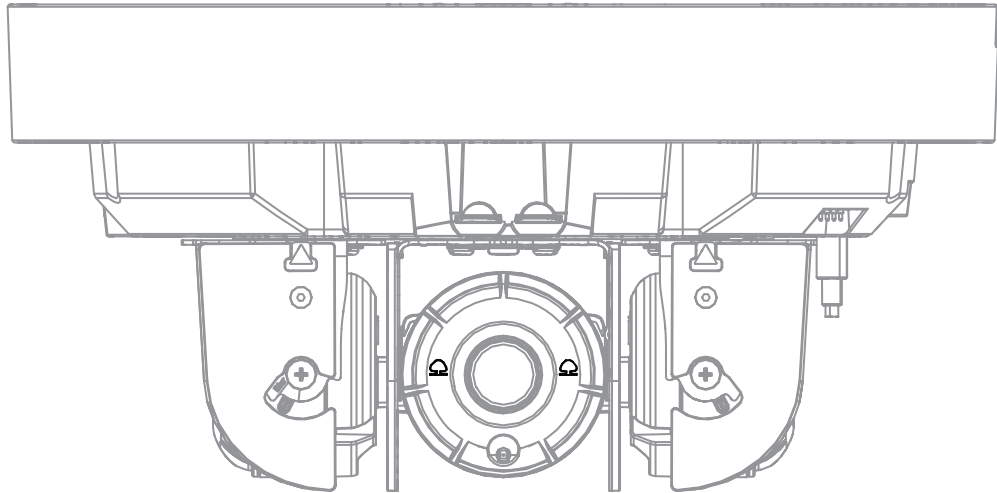
5.3.4

Rolling each of the four lenses

1. Roll each of the four lenses to set the position that you need. You can roll 0° to 352°.



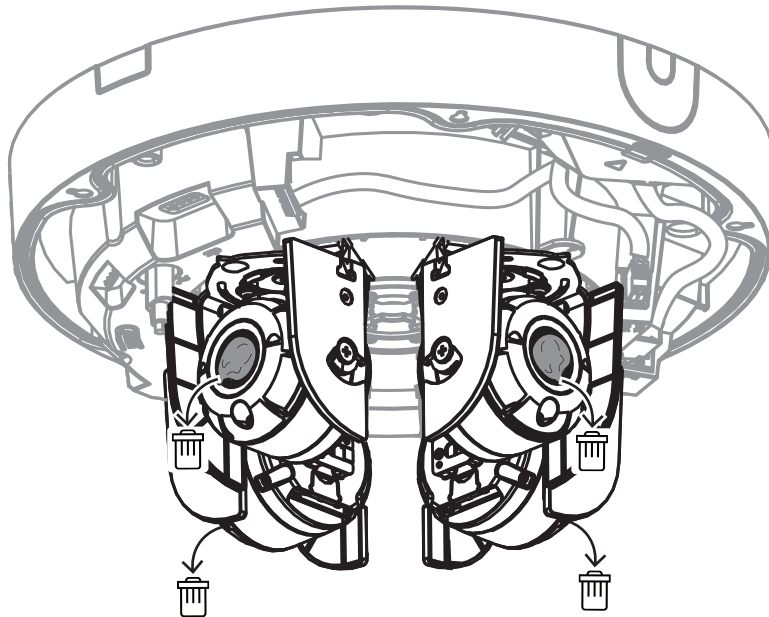
2. To set the image straight, make sure that the tree icon on the lens is leveled horizontally.

**Notice!**

Do not roll the lens more than 352°. To prevent damage, do not push it beyond the lens stop.

**Notice!**

Do not forget to remove the plastic foil on the four lenses. Failure to do so may cause the image to appear blurry.



5.4 Installing the camera dome cover

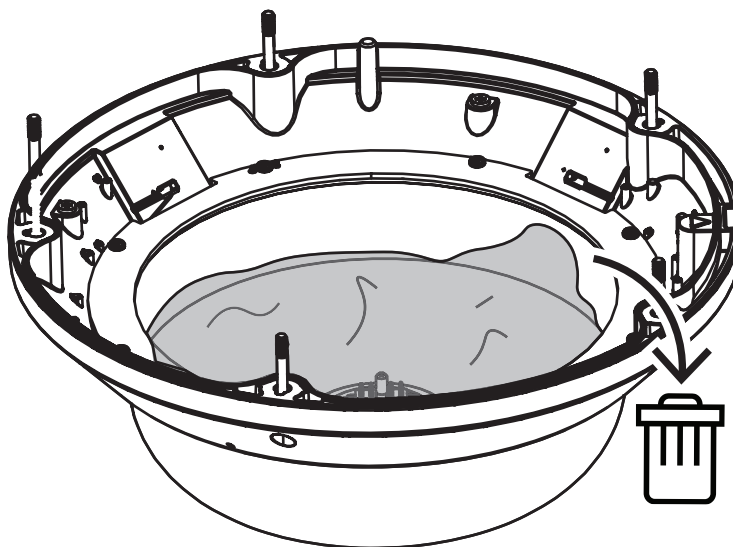
**Notice!**

Use caution when handling the dome bubble during installation and maintenance. Avoid scratching the bubble with tools, fingers, packaging materials, and do not place the bubble directly on rough or dirty surfaces. Damage to the bubble may affect image quality.

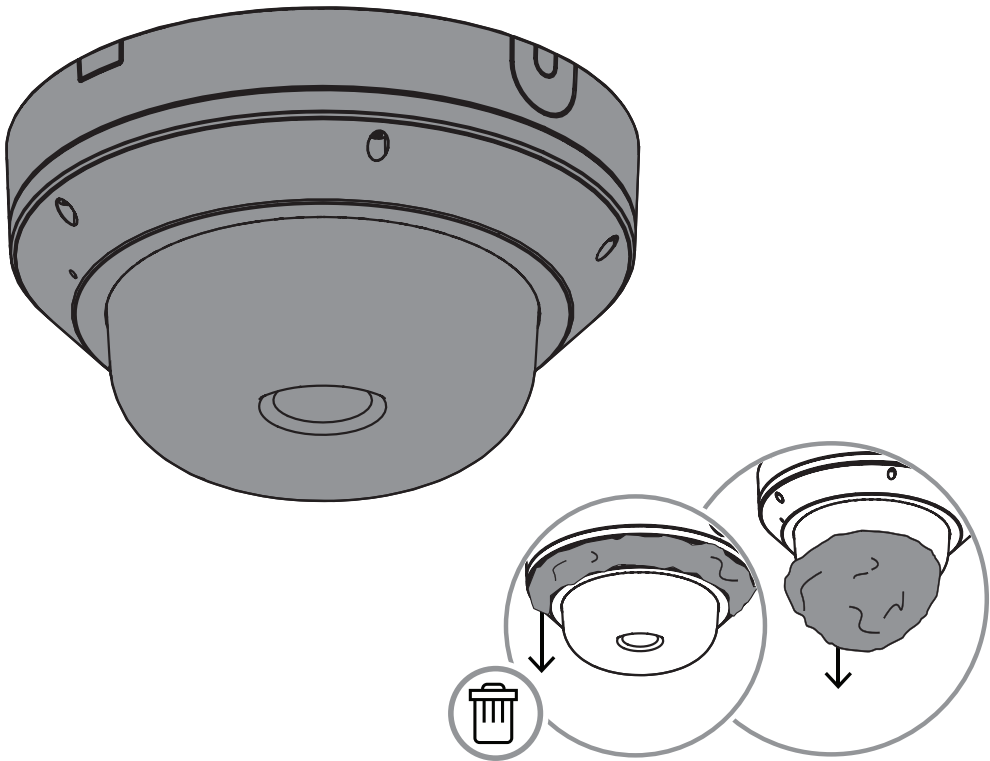
**Notice!**

Inspect the dome bubble before installation and replace any damaged component before final assembly.

1. Remove the plastic foil from inside the bubble.



2. Position the camera dome cover on the camera base, so that the triangle icons on the camera base and on the camera dome cover match.
3. Tighten the 5 captive screws of the screw holes in the camera dome cover between 4 and 7 Nm (3 and 5.2 lbfft).
4. Remove the protective cover from the bubble.

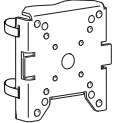
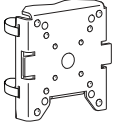
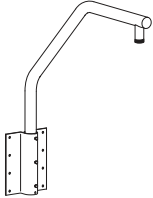
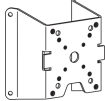


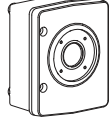
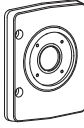
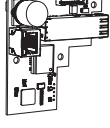
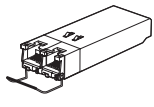
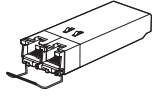
5.5 Optional mounting accessories

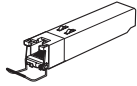
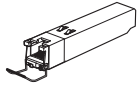
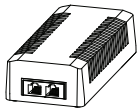
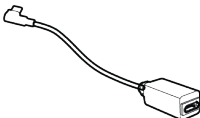


Notice!
When selecting accessories and determining the installation location, consider maintaining at least 60 cm of clearance from nearby accessories and walls to prevent unwanted reflections, optical interference, or image quality degradation.

NDA-7052-PIPW	Pendant interface plate.	
NDA-U-WMT	Universal wall mount for dome cameras, white.	
NDA-U-PMT	Universal pipe mount for dome cameras, 31 cm, white.	

NDA-U-PMTE	Extension for universal pipe mount, 50 cm, white.	
NDA-U-PMTS	Universal pendant pipe mount for dome cameras, 11 cm (4"), white.	
NDA-U-PSMB	Surface mount box (SMB) for wall mount or pipe mount.	
NDA-U-PMAS	Universal pole mount adapter, white; small.	
NDA-U-PMAL	Universal pole mount adapter, white; large.	
NDA-U-RMT	Universal roof mount for dome cameras, white.	
NDA-U-CMT	Universal corner mount, white.	

NDA-U-PA0	Surveillance cabinet, 24 VAC input, 24 VAC output, IP66.	
NDA-U-PA1	Surveillance cabinet, 100 - 120 VAC 50/60 Hz input, 24 VAC output, IP66.	
NDA-U-PA2	Surveillance cabinet, 230 VAC input, 24 VAC output, IP66.	
NDA-U-WMP	Back plate for universal wall mount, corner mount and pole mount, white, IP66.	
VG4-SFPSCKT	Ethernet media converter video transmitter/data receiver fiber optic kit.	
SFP-2	SFP Fiber Optic Module, 2 km (1.2 miles), 2 LC connectors. Multi-mode. 1310 nm.	
SFP-3	SFP Fiber Optic Module, 20 km (12.4 miles), 2 LC connectors. Single-mode. 1310 nm.	

SFP-25	SFP Fiber Optic Module, 2 km (1.2 miles), 1 SC connector. Multi-mode. 1310/1550 nm.	
SFP-26	SFP Fiber Optic Module, 2 km (1.2 miles), 1 SC connector. Multi-mode. 1550/1310 nm.	
NDA-U-PMTG	Universal pipe mount, compatible with gang box installation for fixed dome cameras only, white.	
NDA-U-WMTG	Universal wall mount, compatible with gang box installation for fixed dome cameras only, white.	
NPD-6001C	60 W indoor midspan for cameras without illuminators.	
Wireless USB dongle	Wireless USB dongle for wireless commissioning with USB-C cable.	

6 Configuration

6.1 Project Assistant app

If you have connected a wireless USB dongle, you can use the Project Assistant app on a mobile device (iOS, Windows, or Android) to perform the initial configuration wirelessly.

1. Download the Project Assistant app.



1. Do the necessary steps to configure the device. Use the step-by-step instructional video for help.



6.2 Configuration via web browser

The unit must have a valid IP address and a compatible subnet mask to operate on your network. By default, DHCP is pre-set at the factory to **On** and so your DHCP server assigns an IP address. With no DHCP server the default address is 192.168.0.1

To view the camera in your web browser:

1. Start the Web browser.
2. Enter the IP address of the unit as the URL.
3. During initial installation, confirm any security questions that appear.

Note:

To see live images in your browser it might be necessary to download and install the MPEG-ActiveX from the download store.

Protected network

If a RADIUS server is used for network access control (802.1x authentication), the unit must be configured first. To configure the unit, connect it directly to a computer using a network cable and configure the two parameters, **Identity** and **Password**. Only after these have been configured can communication with the unit via the network occur.

IP Helper tool

Alternatively, use the IP Helper tool to detect Bosch devices on the network:

1. Access the Bosch download store (<http://downloadstore.boschsecurity.com/>).
2. Download and install IP Helper.
3. Choose your specific camera from the list of cameras shown in the table on the left of the screen
4. Click **Open in browser** to view the camera interface.

6.2.1 Set-up via web browser

1. Open the camera in the web browser.

2. Click **Configuration** in the title bar.
3. Select **Camera >> Installer Menu** from the side bar.
4. Click the **Lens Wizard** button and follow the steps to configure the lens.

If required, configure the other parameters to suit your working environment (for example, ID, passwords, date and time). Refer to the operation manuals of the software for more information.

7 Troubleshooting

7.1 Resolving problems

The following table is intended to help identify the causes of malfunctions and correct them where possible.

Malfunction	Possible causes	Solution
Unit does not operate.	Power failure.	Make sure that the power supply is working properly.
	Faulty cable connections.	Do a check of all cables, plugs, contacts, and connections.

No connection established, no image transmission.	Incorrect unit configuration.	Check all configuration parameters (reset to factory default if necessary).
	Faulty installation.	Check all cables, plugs, contacts and connections.
	Wrong IP address.	Check the IP addresses (ping).
	Faulty data transmission within the LAN.	Check the data transmission with ping.
	The maximum number of connections has been reached.	Wait until there is a free connection and call the transmitter again.

Moisture/condensation inside the bubble, camera leaking.	Housing is not closed properly.	Re-install camera and check for proper closure of bubble cover.
	Closing seals are damaged.	Please contact your supplier or system integrator, or go directly to customer service.
	Rubber grommet not placed correctly on IP66 protection kit..	Re-install rubber grommet.
	Cable diameter or shape is not as specified for IP66 protection kit.	Re-install camera with proper cabling.
	Air vent is blocked due to dirt/ water.	Gently clean air vent..
	Air vents are damaged or loose.	Please contact your supplier or system integrator, or go directly to customer service.
	Camera has been off for an extensive period of time.	Turn camera on and leave it on until condensation clears.

No audio transmission to remote station	Incorrect dome or bubble installation.	Open camera bubble, clean the microphone connector pads and pins, reposition the bubble correctly, and tighten the screw.
	Incorrect configuration.	Check audio parameters on the Audio configuration and LIVE page functions pages.
The unit does not report an alarm.	Alarm source is not selected.	Select possible alarm sources on the Alarm sources configuration page.
	No alarm response specified.	Specify the desired alarm response on the Alarm connections configuration page; if necessary change the IP address.
The unit is not operational after a firmware upload.	Power failure during programming by firmware file.	Have the unit checked by Customer Service and replace if necessary.
	Incorrect firmware file.	Enter the IP address of the unit followed by /main.htm in your Web browser and repeat the upload.
Web browser contains empty fields.	Active proxy server in network.	Create a rule in the local computer's proxy settings to exclude local IP addresses.

7.2 Testing the network connection

The ping command can be used to check the connection between two IP addresses. This allows testing whether a device is active in the network.

1. Open the DOS command prompt.
2. Type `ping` followed by the IP address of the device.

If the device is found, the response appears as "Reply from ... ", followed by the number of bytes sent and the transmission time in milliseconds. Otherwise, the device cannot be accessed via the network.

This might be because:

- The device is not properly connected to the network. Check the cable connections in this case.
- The device is not correctly integrated into the network. Check the IP address, subnet mask, and gateway address.

7.3 Customer service

If a fault cannot be resolved, please contact your supplier or system integrator, or go directly to IQSIGHT customer service.

The version numbers of the internal firmware can be viewed on a service page. Please note this information before contacting customer service.

1. In the address bar of your browser, after the unit IP address, enter: /version
for example: 192.168.0.80/version
2. Write down the information or print out the page.

8 Maintenance

8.1 Cleaning

Bubble Cleaning

If cleaning the bubble is required, use the following procedures and comply with all the warnings listed below.

Cleaning the Bubble Interior

The extremely soft interior surface should not be cleaned by rubbing or dusting with a cloth. Use clean dry compressed air, preferably from a spray can, to remove any dust from the interior surface.



Warning!

Improper wiping may damage the interior surface and degrade image quality

Do not use alcohol-based solutions to clean the bubble. This will cause the surface to cloud and, over time, cause stress aging, which makes the bubble brittle.

Cleaning the Bubble Exterior

The exterior of the bubble is hard-coated for extra protection. If cleaning becomes necessary, only use cleaning solutions and cloths suitable for cleaning safety glass lenses. Dry the bubble thoroughly with a dry nonabrasive cloth to prevent water spots. Never scrub the bubble with any abrasive material or cleaners.

Bosch recommends cleaning the exterior of the bubble with NOVUS "No. 1" Plastic Clean & Shine (or equivalent), according to manufacturer's instructions. Refer to www.novuspolish.com to order or to find a local distributor.

Cautions

- Do not clean bubbles in the hot sun or on very hot days.
- Do not use abrasive or highly alkaline cleaners on the bubble.
- Do not scrape the bubble with razor blades or other sharp instruments.
- Do not use Benzene, Gasoline, Acetone, or Carbon Tetrachloride on the bubble.

Lens cleaning

It is important to keep the lens clean to ensure optimum performance. Dust, grease, or fingerprints should be removed from the lens surface. When cleaning the lens, take extra care not to damage the special coating used to reduce light reflections.

- Remove dust with a blower-brush or grease-free soft brush.
- Wipe water drops off the lens with a clean soft lint-free cloth and dry the lens surface.
- Use special lens cleaning paper or cloth treated with lens cleaning fluid to gently wipe off any remaining dirt (wipe spirally from the lens center towards the edge).

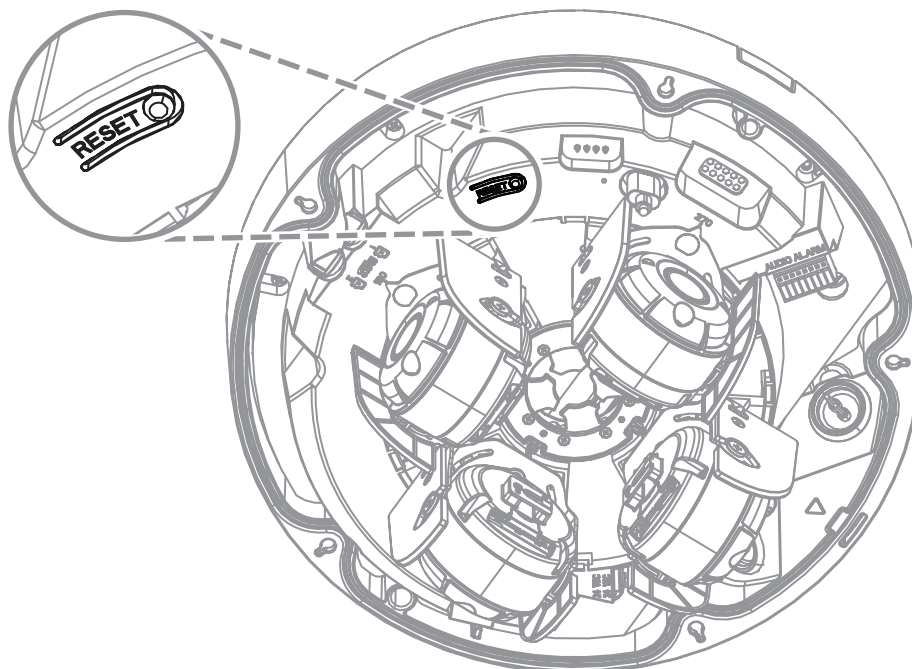
8.2 Repair

The unit does not contain any user-serviceable parts. Refer all repairs to suitable qualified specialists.

8.3 Reset

To reset the camera to factory settings:

1. Remove the camera dome cover from the camera base.
2. Press the reset button on the camera base.



3. Re-attach the camera dome cover onto the camera base.

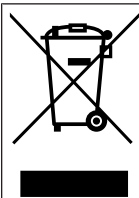
9 Decommissioning

9.1 Transfer

The device should only be passed on together with this Installation manual.

9.2 Disposal

Old electrical and electronic equipment



This product and/or battery must be disposed of separately from household waste. Dispose such equipment according to local laws and regulations, to allow their reuse and/or recycling. This will help in conserving resources, and in protecting human health and the environment.

IQSIGHT B.V.

Achtseweg Zuid 173
5651 GW Eindhoven
The Netherlands

www.iqsight.com

© IQSIGHT 2026