

FLEXIDOME panoramic 5100i

NDS-5703-F360 | NDS-5703-F360-GOV | NDS-5704-F360 |
NDS-5704-F360-GOV

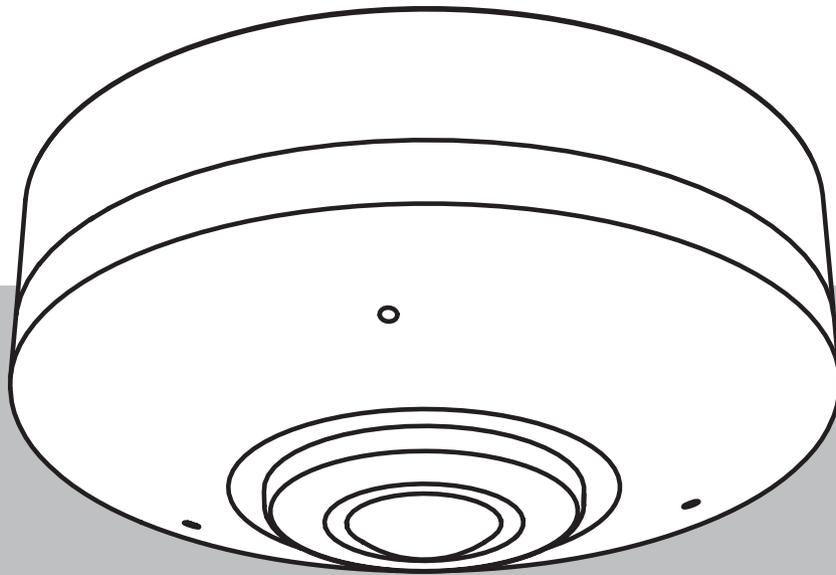


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1 Safety

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.

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.
- Take precautions to protect the device from power and lightning surges.
- 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.
- Only use shielded UTP cables for connection.

- When using a Class I adapter with your product, the power cord shall be connected to a socket-outlet with a connection to ground.
- The Low Voltage power supply unit used must comply with EN 62368-1.
- For PoE connections, the adapter shall be rated 55 VDC, 0.50 A minimum, with an ambient operating temperature of at least 55°C.
- Your product shall only be connected to PoE networks without routing to the outside plant.

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 60950-1, UL 62368-1, UL 60950-22. 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 statement (USA)

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This device may not cause harmful interference.
 - This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

FCC suppliers Declaration of Conformity

FLEXIDOME panoramic 5100i: NDS-5703-F360, NDS-5704-F360, NDS-5703-F360-GOV and NDS-5704-F360-GOV.

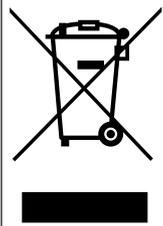
Responsible party

Bosch Security Systems, LLC
130 Perinton Parkway
14450 Fairport, NY, USA
www.boschsecurity.us

The manufacturing datecodes of the products are explained in:
<http://www.boschsecurity.com/datecodes>

IC statement (Canada)

This device complies with Industry Canada licence-exempt RSS standard(s). 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.

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.

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. Bosch Security Systems accepts no liability for damage resulting directly or indirectly from faults, incompleteness or discrepancies between this manual and the product described.

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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 Bosch Security Systems location or visit www.boschsecurity.com.



<https://www.boschsecurity.com/xc/en/product-catalog/>

3 System overview

3.1 Product description

The FLEXIDOME panoramic 5100i camera is built for high-quality performance, featuring 360° panoramic overview in 6MP and 12MP resolution without blind spots. It helps to simplify installation and lower costs while maintaining flexibility in coverage. The camera offers full situational awareness and simultaneous high-resolution zoomed-in images. Built-in Intelligent Video Analytics enriches full situational awareness and triggers relevant alerts.

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.

3.3 Using the camera

To access the features of the camera, use a web browser. The browser provides live viewing of the camera streams in the interface window, and also allows you to access and change the extensive list of settings and parameters for camera configuration. Refer to the software manual for more information on the browser interface.

The camera recording and storage functions include local alarm recording and recording to iSCSI-based systems. The camera can also use the Bosch Video Recording Manager (VRM) to control recording and storage. Integration with the many Bosch recording solutions is seamless.

3.4 Operation with external systems

The web browser is the most direct way of using the camera, however, the Bosch download store provides several other free applications (listed below) for viewing and controlling the camera.

Download store

Download the latest applications and firmware from:

<http://downloadstore.boschsecurity.com/>

Configuration Manager

Use the Configuration Manager application to configure general Video Client settings like the default path for workstation recording or the use of an IntuiKey keyboard.

If you decide to work with a pre-configured monitoring system, use the Configuration Manager application to set up your monitoring system:

- Easily configure basic system settings with the integrated configuration wizard
- Manage user groups and rights
- Add devices to your system and arrange them in groups

Video Security Client

The Video Security Client is a free, easy-to-use video-surveillance application provided by Bosch for local and remote monitoring of IP cameras and appliances. The software supports up to 16 cameras.

The Video Security Client has extensive dewarping capabilities and can be used for client-side dewarping as well as for viewing the available modes.

Bosch Video Client

The Bosch Video Client is a free Windows application to view, operate, control, and administer surveillance cameras and installations at remote locations. It offers a user-friendly interface for easy live viewing of multiple cameras, playback, forensic search and export.

4 Planning information

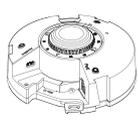
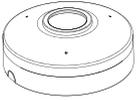
4.1 Unpacking

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 Bosch Security Systems 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	Camera base
	1	Camera cover
	1	TR15 Allen key for microSD slot lock
	1	Quick installation guide
	1	Safety information
	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:
 - 2 screws in size M4 or No. 7
 - Appropriate size power drill

- Screwdriver, bit holder and TR15 bit, or use the provided TR15 Allen key (optional, only required when MicroSD is used)
- microSD card (optional)

4.4 Network and PoE

**Notice!**

Use only PoE IEEE 802.3af Type 1, Class 2 approved devices.

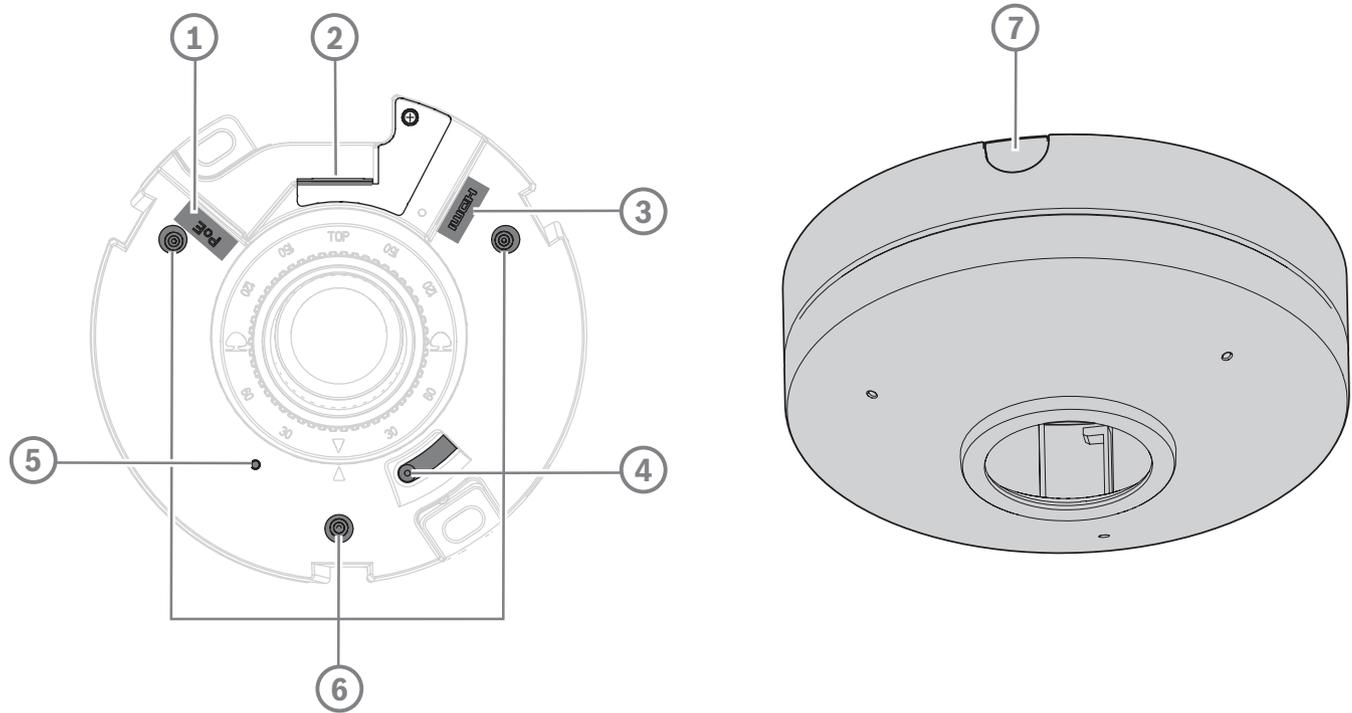
Power-over-Ethernet (PoE) has a power consumption of 6 W.

Cables

For cable requirements, refer to Wiring the camera base.

5 Installation

5.1 Installing the camera base



1	RJ45 connector	2	MicroSD card slot
3	Micro HDMI	4	Reset button
5	Activity LED	6	3-microphone array
7	Cable side-entry door		

5.1.1 Before the installation

Remove the camera base from the box.

Local storage



Notice!

Bosch recommends the use of industrial micro SD cards with health monitoring.

To install the micro SD card:

1. Install a micro SD card in the micro SD slot using the TR15 tool.
2. Press the micro SD card firmly until it latches into place in the slot.

To remove the micro SD card:

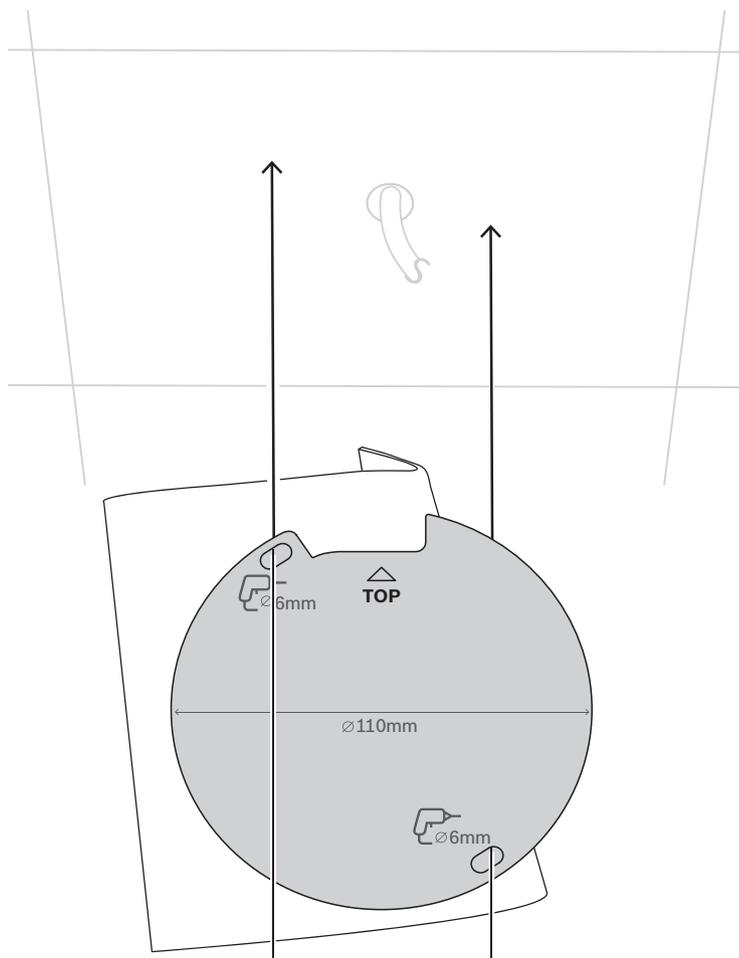
1. Press the micro SD card into the slot until it unlatches again.
2. Remove the card from the SD slot.
3. Close the lock again with TR15 tool.

**Notice!**

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

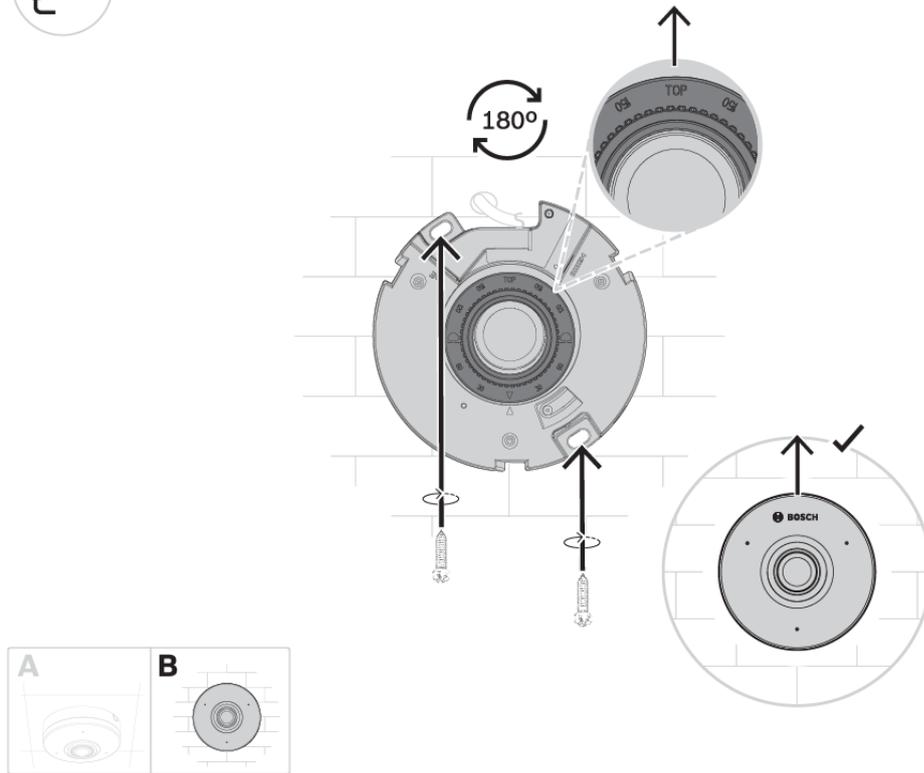
5.1.2**Installation steps**

1. Place the sticker on the wall/ceiling.



2. Use an appropriate size drill to mark the holes using the mounting template.

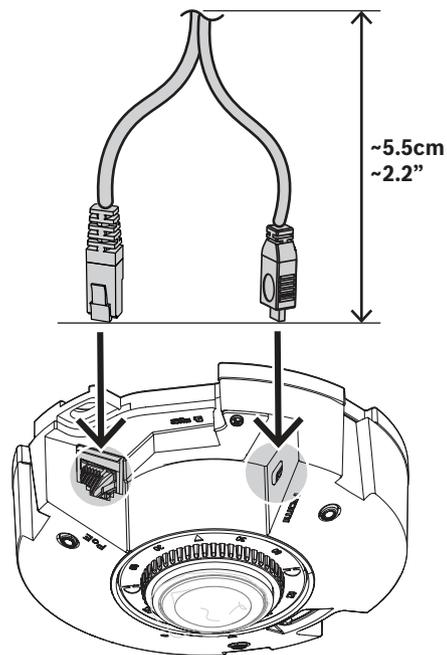
For wall mount installation, the camera base needs to be installed with the cable entries facing top to ensure proper installation of the camera with a leveled Bosch logo. If this is not possible, confirm that the lens module marking “TOP” is facing up. If not, turn the lens module in the correct orientation to ensure the images show up correctly in the system or browser.



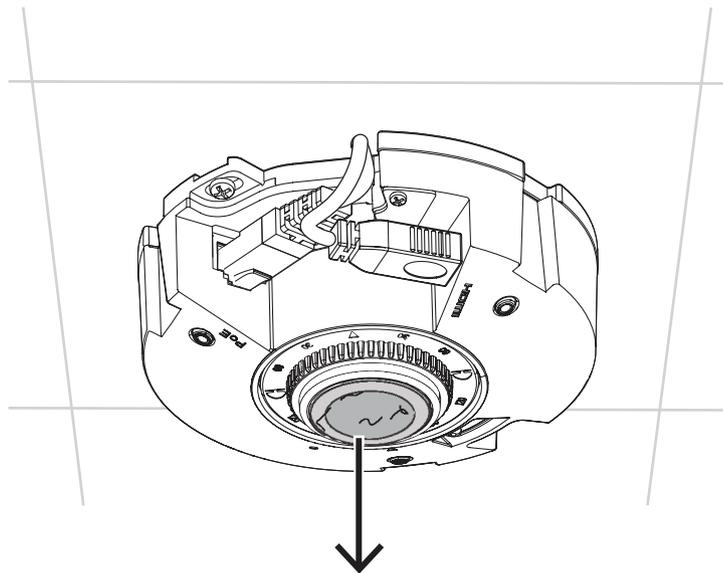
Notice!

Remove the side entry door, if a cable comes from outside the camera. The side entry door can stay in place, if a cable comes from the back.

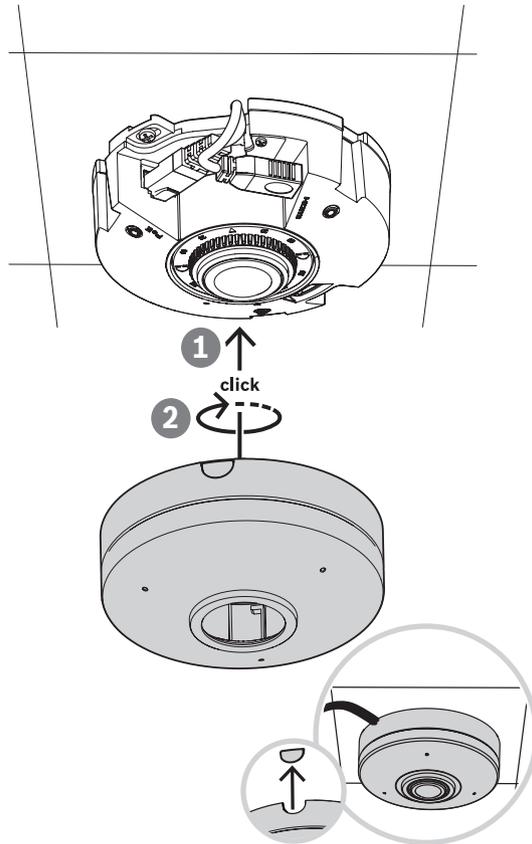
3. Connect the network cable and the micro HDMI cable (optional) to the correct connector.
4. Allow approximately 5.5 cm (2.2 inch) cable length to ensure proper installation and to prevent excessive cable length.



5. Remove the protective foil from the lens.



6. Push the camera cover upwards.
7. Rotate clockwise to click the camera cover from the camera base.

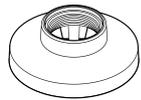


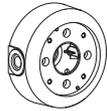
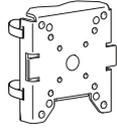
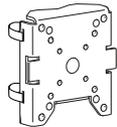
5.2 Removing the camera

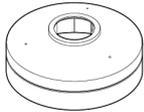
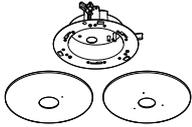
In case the camera needs to be removed or opened below steps need to be followed:

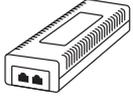
1. Remove the camera cover by pushing it against the surface and simultaneously rotating it counterclockwise.
2. Remove the two screws.
3. Disconnect the cables.
4. Remove the camera.

5.3 Optional mounting accessories

NDA-5081-PIP	Pendant Interface Plate, 110mm	
NDA-U-WMT	Pendant wall mount	

NDA-U-WMP	Wall mount plate	
NDA-U-PMT	Pendant pipe mount, 12" (31cm)	
NDA-U-PMTE	Pendant pipe extension, 20" (50cm)	
NDA-U-PMTS	Pendant pipe mount, 4" (11 cm)	
NDA-U-PSMB	Pendant wall/ceiling mount SMB	
NDA-U-PMAS	Pole mount adapter small	
NDA-U-PMAL	Pole mount adapter large	

NDA-5081-PC	Paintable cover, F360, 4pcs	
NDA-5081-TM	Tilt mount 20-deg, 110mm	
NDA-5081-PLEN	In-ceiling plenum rated kit, 110mm	
NDA-U-CMT	Corner mount adapter	
NDA-U-PMTG	Pendant pipe mount, gang box	
NDA-U-WMTG	Pendant wall mount, gang box	
NPD-3001-WAP	Portable installation tool	

NPD-5001-POE	Midspan, 15W, single port, AC in	
NPD-5004-POE	Midspan, 4 port x 15W, AC in	

5.4 LED status

A status LED can be seen in the camera bubble on the opposite side of the camera lens. Refer to the table below for the different status LED functions.

Status LED	Meaning
Solid red	Booting
Flashing red	Resetting
Solid green	Working, but stream is not being watched or recorded
Flashing green	Stream is being watched and/or recorded

Disable the status LED in the camera settings, if necessary.

1. Select **Camera**.
2. Select **Installer menu**.
3. Select **Disabled** in **Camera LED**.

6 Configuration

6.1 Browser connection

A computer with a web browser (Google Chrome, Microsoft Edge, or Mozilla Firefox) is used to receive live images, control the unit, and replay stored sequences. The unit is configured over the network using the browser.

6.1.1 Establishing the network

The unit must have a valid IP address to operate on your network and a compatible subnet mask.

By default, DHCP is pre-set at the factory to **On plus Link-Local** so a DHCP server assigns an IP address or, if no DHCP server is available, a link-local address (auto-IP) is assigned within the range 169.254.1.0 to 169.254.254.255.

You can use the Configuration Manager to find the IP address. Download the software from <http://downloadstore.boschsecurity.com>.

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.

6.1.2 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.

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.	Check power supply. Check if PoE is used. Check if activity lights are on.
No connection established, no image transmission.	Incorrect unit configuration.	Check all configuration parameters (reset to factory default if necessary).
	Faulty installation.	Check PoE.
	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.
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. Only use CPP14 firmware files.
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

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 Bosch Security Systems 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

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 restore the unit of its original settings, push the reset button for 10 seconds. Any changes to the settings are overwritten by the factory defaults. A reset may be necessary, for example, if the unit has invalid settings that prevent it from functioning as desired.

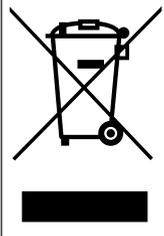
9 Decommissioning

9.1 Transfer

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

9.2 Disposal

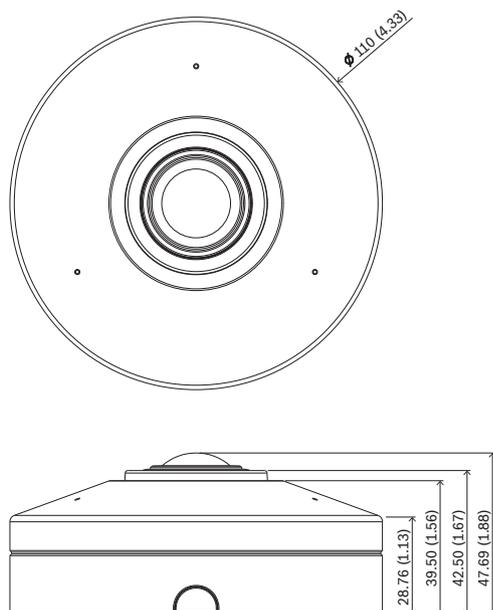
Old electrical and electronic equipment



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.

10 Technical data

10.1 Dimensions



Dimensions in mm (inch)

10.2 Specifications

Power	
Input voltage	PoE IEEE 802.3af Type 1, Class 2
Power consumption (typical / maximum)	PoE: 5.6 / 6 W

Sensor	
Total sensor pixels	6 MP
Type (6 MP)	1/1.8-inch CMOS
Used pixels (6 MP)	2112 x 2112 (4.5 MP)
Total sensor pixels	12 MP
Type (12 MP)	1/2.3 inch CMOS
Used pixels (12 MP)	3008 x 3008 (9 MP)

Video performance - Sensitivity	
Measured according to IEC 62676 Part 5 (1/25, F2.0)	
Color (6 MP)	0.099 lx
Mono (6 MP)	0.008 lx
Color (12 MP)	0.150 lx
Mono (12 MP)	0.048 lx

Video performance - Dynamic range	
Wide Dynamic Range (6 MP)	120 dB WDR
Measured according to IEC 62676 Part 5 (6 MP)	105 dB WDR
Wide Dynamic Range (12 MP)	120 dB WDR
Measured according to IEC 62676 Part 5 (12 MP)	106 dB WDR

Video streaming	
Video compression	H.265; H.264; M-JPEG
Streaming	Multiple configurable streams in H.265, H.264 and M-JPEG, configurable frame rate and bandwidth. Multiple channels with edge dewarping. Regions of Interest (ROI)
Overall IP Delay	Min. 120 ms, Max. 340 ms
GOP structure	IP, IBP, IBBP
Frame rate (6 MP)	1-30fps
Frame rate (12 MP)	1-30fps 1-25fps in HDR mode
Encoder regions	Eight independent areas for setting encoder quality to optimize bitrate.

Video resolution (H x V)		
Video 1 channel	Full image circle	6 MP: 2112 x 2112 (4.5 MP) 12 MP: 3008 x 3008 (9 MP)
Video 2 channel	Various dewarped modes (Full panoramic, double panoramic, quad, corridor, E-PTZ)	Resolution depends on selected dewarped mode
Video 3 channel	E-PTZ	Up to 1920 x 1080
Multiple lower resolutions available and individually selectable per channel and stream		

Video functions	
Day/Night	Color, Monochrome, Auto (adjustable switchover points)
Adjustable picture settings	Contrast, Saturation level and control, Brightness, Sharpness
White Balance	2500 to 10000K, 3 automatic modes (Basic, Standard, Sodium vapor), Manual mode and Hold mode
Shutter	Automatic Electronic Shutter (AES) Default shutter (1/30 [1/25] to 1/500) selectable Max. shutter speed 1/1.875 to 1/150000

Video functions	
Backlight compensation	Off / On
Noise reduction	Dynamic Noise Reduction
Privacy masking	Eight independent areas, fully programmable
Scene modes	Multiple default modes with scheduler
Pre-positions	Six independent sectors
Guard tours	Pre-position tour consisting of up to six scenes, consecutively
Display stamping	Individual names and stamps for all video channels
Other functions	Pixel counter, Video watermarking, Location

Video content analysis	
Analysis type	Intelligent Video Analytics, Camera Trainer
Alarm rules (combinable)	Any object, Object in field, Line crossing, Enter / leave field, Loitering, Follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation, Condition change, Similarity search, Flow / counter flow
Object filters	Duration, Size, Aspect ratio, Speed, Direction, Color, Object classes (4)
Tracking modes	Standard (2D) tracking, 3D tracking, 3D people tracking, Ship tracking, Museum mode
Object classes	Person, car, bike, truck
Calibration / Geolocation	Automatic, based on gyro sensor and camera height
Intelligent Audio Analytics	Gunshot detection, T3 / T4 alarm detection (licensed). More detectors will be available with future releases.

Optical	
Lens	1.155 mm fixed-focus lens F2.0 (6 MP) 1.26 mm fixed-focus lens F2.0 (12 MP)
Lens mount	Board mounted
Iris control	Fixed iris
Day/Night	Switchable IR-cut filter
Field of view	182° (H) x 182° (V)
Minimum object distance	0.1 m

Local storage	
Internal RAM	5 s pre-alarm recording
Memory card slot	Micro SDXC / SDHC / SD card

Local storage	
Industrial SD cards	Extreme lifetime and health monitoring support (if supported by the SD card) that provides early service indication.
Input/output	
HDMI output	Micro HDMI connector and up to 1080p resolution with dewarped viewing possibilities
Microphone	Integrated array with 3 digital MEMS audio sensors
Ethernet	RJ-45
Audio streaming	
Standard	G.711, 8 kHz sampling rate L16, 16 kHz sampling rate AAC-LC, 96 kbps at 32/48 kHz sampling rate
Signal-to-Noise Ratio	>50 dB
Audio Streaming	Full-duplex / half duplex
Platform	
Common product platform	CPP14
Data security	
Secure Element ("TPM")	RSA 4096 bit, AES/CBC 256 bit
PKI	X.509 certificates
Encryption	Full end-to-end encryption with supported VMS Network: TLS1.0/1.1/1.2/1.3, AES128, AES256 Local storage: XTS-AES
Video authentication	checksum, MD5, SHA-1, SHA-256
Firmware protection	Signed firmware, secure boot
Network	
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, V3, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, CHAP, digest authentication
Ethernet	10/100/1000 Base-T, auto-sensing, half/full duplex
Connectivity	Auto-MDIX
Interoperability	ONVIF Profile S ONVIF Profile G ONVIF Profile M ONVIF Profile T

Mechanical	
Dimensions (Ø x H)	110 x 47.7 mm (4.33 x 1.88 in)
Lens adjustment (rotation)	355°
Weight	0.31 kg (0.68 lbs)
Color	White (RAL9003)
Gyrosensor	Yes
Mounting	Surface mount
Environmental	
Operating temperature	-10 °C to +45 °C (14 °F to 113 °F) Cold start temperature 0 °C (32 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Operating humidity	5% to 93% RH non-condensing 5% to 100% RH condensing
Storage humidity	Up to 98% RH
Impact protection	IK08 (except lens)
Sustainability	PVC free
Country of origin	NDS-5703-F360/NDS-5704-F360: Thailand NDS-5703-F360-GOV/NDS-5704-F360-GOV: Taiwan



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