

# NDV-8502-R Fixed dome 2MP HDR 3-9mm PTRZ

# FLEXIDOME IP indoor 8000i



The FLEXIDOME IP indoor 8000i - 2 MP series camera offers a 1/2.8" sensor, starlight and High Dynamic Range technology at 1080p resolution. It provides crisp and highly detailed images even in extreme low-light situations.

The camera's remote commissioning functionality makes sure installation and commissioning can be done in very little time. Using a PC or a mobile device with the Bosch Project Assistant app, you can pan, tilt, roll and zoom (PTRZ) and point the camera to the required field of view with a single click - without ever having to touch the camera or lens.

# **Functions**

# **Full Remote Commissioning**

Installing a professional IP video surveillance camera has never been so easy. In fact, as an installer, you'll never want to go back to the old methods of installing cameras again. We've simplified the installation and commissioning stages to such a degree that they can be done in very little time.

With the FLEXIDOME IP indoor 8000i camera's remote commissioning functionality there's no need to go up and down ladders. Using a PC or a mobile device with the Bosch Project Assistant app, you can pan, tilt, roll













- ► Motorized Pan, Tilt, Roll, and Zoom (PTRZ) to set the required field of view, without having to touch the camera or lens allows for remote configuration and commissioning
- ► Starlight technology provides highly detailed images in extreme low-light situations
- ► High Dynamic Range to see every detail in both bright and dark areas of the scene
- ► Built-in Intelligent Video Analytics with object detection to trigger alerts and quickly retrieve data with the highest levels of reliability
- ► Camera Trainer to train the camera to recognize user-specified target objects for both moving and non-moving objects

and zoom (PTRZ) and point the camera to the required field of view with a single click - without ever having to touch the camera or lens.

Remote configuration and commissioning can also be done at a later stage once all cameras have been installed. Simply connect to the camera remotely via the network using the Bosch Project Assistant app, the camera's web interface, or the Bosch Configuration Manager.

## **Fast performance**

The high sensor resolution together with a frame rate of 30 frames per second makes this camera an ideal solution for capturing fast moving objects in high detail and, at the same time, providing situational awareness.

# **Starlight performance**

The latest sensor technology combined with the sophisticated image processing and noise suppression results in an exceptional sensitivity in color. The low-light performance is so good that the camera continues to provide excellent color performance even with a minimum of ambient light.

## **High Dynamic Range**

The high dynamic range mode is based on a multiple-exposure process that captures more details in the highlights and in the shadows even in the same scene. The result is that you can easily distinguish objects and features, for example, faces with bright backlight. The actual dynamic range of the camera is measured using Opto-Electronic Conversion Function (OECF) analysis according to IEC 62676 Part 5.

#### Scene modes

Nine configurable modes are provided with the best settings for a variety of applications. In one click fully optimized image settings can be selected to suit the conditions. Different scene modes can be selected for different situations such as traffic or retail environments.

## Intelligent streaming

Smart encoding capabilities, together with Intelligent Dynamic Noise Reduction technology and analytics, reduce the bandwidth consumption to extremely low levels. Only relevant information in the scene, like motion, or objects found with the analytics, need to be encoded.

The camera is capable of quad streaming which allows the camera to deliver independent, configurable streams for live viewing, recording, or remote monitoring via constrained bandwidths. Each of these streams can be adapted independently to deliver high quality video, perfectly tailored to purpose, while reducing bit rate by up to 90% compared to a standard camera.

## H.265 high-efficiency video encoding

The camera is designed on the most efficient and powerful H.264 and H.265/HEVC encoding platform. The camera is capable of delivering high-quality and high-resolution video with very low network load. With a doubling of encoding efficiency, H.265 is the compression standard of choice for IP video surveillance systems.

## Bitrate optimized profile

The average bitrate for the bitrate optimized profile using H.265 encoding in kbps for different frame rates can be found in the table provided below.

FPS at 2.1MP	Low activity	Medium activity	High activity
60	836	1261	2753
30	504	753	1647
25	441	661	1440
15	306	461	992
10	229	347	740
5	140	214	450

FPS at 2.1MP	Low activity	Medium activity	High activity
3	97	150	313
1	45	70	144



### **Notice**

Actual bitrate values may vary depending on scene complexity/activity and picture settings.

### Recording and storage management

Recording management can be controlled by the Bosch Video Recording Manager application, or the camera can use local storage and iSCSI targets directly without any recording software.

Local storage can be used for recording "at the edge" or for Automatic Network Replenishment (ANR) technology to improve the overall recording reliability. Pre-alarm recording in RAM reduces bandwidth consumption on the network and extends the effective life of the memory card.

# Advanced edge recording

Advanced edge recording provides the most reliable storage solution possible due to the combination of the following functionalities:

- Dual SD cards that can be set up as either:
  - Mirrored, for redundant storage
  - Failover, for extended service intervals
  - Extended, for maximum retention time
- Industrial SD card support allows for extreme lifetime
- Health monitoring of industrial SD cards provide early service indications

## Intelligent Video Analytics on the edge

The camera includes the latest release of the Intelligent Video Analytics application from Bosch. Specifically designed for the most demanding environments. It delivers the highest levels of accuracy for mission-critical applications such as perimeter protection of airports, critical infrastructures and government buildings, border patrol, ship tracking and traffic monitoring (e.g. wrong-way detection, traffic counts, monitoring roadsides for parked cars).

Intelligent Video Analytics is extremely resistant to false triggers caused by challenging environments with snow, wind (moving trees), rain, hail, and water reflections. It is ideal for providing automatic object detection over large distances.

The set-up of Bosch's video analytics is also second to none, which is great news for installers. Should your customer decide to use Intelligent Video Analytics, configuration and calibration couldn't be easier. Simply enter the height of the camera and the rest of the calibration is carried out by the video analytics itself based on information provided by the camera's built-in gyro sensor.

### **Camera Trainer**

Based on examples of target objects and non-target objects, the Camera Trainer program uses machine learning to allow the user to define objects of interest and generate detectors for them. In contrast to the moving objects that the Intelligent Video Analytics application detects, the Camera Trainer program detects both moving and non-moving objects and classifies them immediately. Using Configuration Manager, you can configure the Camera Trainer program using both live video as well as recordings available through the respective camera. The resulting detectors can be downloaded and uploaded for distribution to other cameras.

A free of charge license is required to activate the Camera Trainer program.

## **DORI** coverage

DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The maximum distance at which a camera/lens combination can meet these criteria is shown below:

#### 2 MP Camera with 3 mm - 9 mm

DORI	DORI definition	Distance 3 mm / 9 mm	Horizontal width
Detect	25 px/m	24 m / 115 m	77 m
	8 px/ft	74 ft / 359 ft	240 ft
Observe	63 px/m	9 m / 46 m	31 m
	19 px/ft	31 ft / 151 ft	101 ft
Recognize	125 px/m	5 m / 23 m	15 m
	38 px/ft	16 ft / 76 ft	51 ft
Identify	250 px/m	2 m / 12 m	8 m
	76 px/ft	8 ft / 38 ft	25 ft

## Data security

Special measures ensure the highest level of security for device access and data transport. On initial setup, the camera is only accessible over secure channels and enforces a password. Web browser and viewing client access can be protected using HTTPS or other secure protocols that support state-of-the-art TLS 1.2 with updated cipher suites including AES encryption with 256 bit keys. No software can be installed in the camera, and only authenticated firmware can be uploaded. A three-level password protection with security recommendations allows users to customize device access.

Network and device access can be protected using 802.1x network authentication with EAP/TLS. Superior protection from malicious attacks is

guaranteed by the Embedded Login Firewall, on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) support.

The advanced certificate handling offers:

- Self-signed unique certificates automatically created when required
- Client and server certificates for authentication
- · Client certificates for proof of authenticity
- Certificates with encrypted private keys

# **System integration and ONVIF conformance**

The camera conforms to the ONVIF Profile S, ONVIF Profile G, ONVIF Profile M, and ONVIF Profile T specifications. For H.265 configuration, the camera supports Media Service 2, which is part of ONVIF Profile T. Compliance with these standards guarantees interoperability between network video products regardless of manufacturer.

Third-party integrators can easily access the internal feature set of the camera for integration into large projects. Visit the Bosch Integration Partner Program (IPP) website (ipp.boschsecurity.com) for more information.

### Universal accessories

A full line of universal accessories are available that allow a consistent design across different platforms and a wide range of installation possibilities. Several dedicated accessories are available that seamlessly fit to the camera and expand the different installation options over previous generations. Available options include: a clear or tinted replacement bubble, in-ceiling mounting kits, a surveillance cabinet with power and fiber optic options and different mounting options.

## **Regulatory information**

Standards	Туре
Emission	EN 55032 Class B, EN 61000-6-3, EN 50121-4, IEC 62236-4, CFR 47 FCC part 15, Class B, ICES-003
Immunity	EN 55035, EN 61000-6-2, EN 50130-4, IEC 62599-2, EN 55016-2-3, EN IEC 61000-4-2, EN IEC 61000-4-3, EN IEC 61000-4-4, EN IEC 61000-4-5, EN IEC 61000-4-6, EN IEC 61000-4-8
Environmental	EN 50130-5 Class II, Class III with NDA-8001-IP, UL 2043 when combined with NDA-8001-PLEN, EN 60068-2-1, EN 60068-2-2, EN 60068-2-6, EN 60068-2-18, EN 60068-2-27, EN 60068-2-30, EN 60068-2-42, EN 60068-2-75, EN 60068-2-78
Safety	EN 62368-1, IEC 62368-1, EN IEC 62368-1, UL 62368-1, CAN/CSA C22.2 No. 62368-1, IEC 62368-3, EN IEC 62368-3
Image performance	IEC 62676-5

Standards	Туре
HD	SMPTE 296M-2001 (Resolution: 1280x720) SMPTE 274M-2008 (Resolution: 1920x1080)
Color representation	ITU-R BT.709-6
ONVIF conformance	EN 50132-5-2, EN 62676-2
Impact protection	EN 62262 (IK10)
Water/dust protection	EN 60529 (IP5X/IP54 with NDA-8001-IP)
Environment	2011/65/EU RoHS (EN 50581 and EN IEC 63000), 1907/2006 REACH, 2012/19/ EU WEEE, 94/62/EC
Marks	CE, cULus, WEEE, RCM, EAC, China RoHS

Region	Regulatory compliance/quality marks	
Great Britain	UKCA	UK_Declaration_of_Conformity
Europe	CE	EU_Declaration_of_Conformity

**Parts included** 

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# Quantity Component 1 FLEXIDOME IP indoor 8000i - 2 MP series camera 1 T-20 security torx bit 1 Quick installation guide 1 Safety information 1 Cable conduit for side entry 1 Washer for cable conduit Adapter plate for cable conduit (Ø 3/4" / M25) 1 1

Adapter plate for cable conduit (Ø 1/2" / M20)

Identification labels

Technical specifications	
Power	
Input voltage	PoE IEEE 802.3af / 802.3at Type 1, Class 3
Power Consumption (typical / maximum) PoE: 7 W / 11.5 W	
Sensor	
Sensor type	1/2.8-inch CMOS

Sensor	
Effective pixels	1920 x 1080 2.9 μm pixels, 2.1MP (approx.)
Sensitivity	
Low-light technology	starlight
Measured according to IE	EC 62676 Part 5 (1/25, F1.2)
Color	0.0104 lx
Mono	0.0039 lx
Dynamic range	
Dynamic range (WDR)	HDR 146 dB
Measured according to IEC 62676 Part 5	108 dB WDR
Optical	
Lens	3 to 9 mm P-iris lens (IR corrected); F-stop 1.2 - 2.3
Adjustment	Motorized zoom/focus
Iris control	P-iris control
Viewing angle	Wide: 117° x 59° (H x V); Tele: 37° x 21° (H x V)
Platform	
Common product platform	CPP7.3
Video streaming	
Video compression	H.265; H.264; M- JPEG
Sensor modes	25 fps, HDR, 1920 x 1080 (2.1 MP) 30 fps, HDR, 1920 x 1080 (2.1 MP) 50 fps, 1920 x 1080 (2.1 MP) 60 fps, 1920 x 1080 (2.1 MP)
Streaming	Multiple configurable streams in H.264, H.265 and M-JPEG, configurable frame rate and bandwidth. Regions of Interest (ROI) Bosch Intelligent Streaming
Camera latency	67 ms (2 MP, 60 fps)
GOP structure	IP, IBP, IBBP
Frame rate	1-60 fps

Video streaming		
Signal-to-Noise Ratio (SNR)	>55 dB	
Video resolution (H x V		
Supported resolutions	HD 1080p 1920 x 1080, 1.3MP 1536 x 864, HD 720p 1280 x 720, SD 432p 768 x 432, D1 (4:3) 720 x 576, VGA (4:3) 640 x 480	
Camera installation		
Mirror image	On / Off	
Rotate	0° / 90° upright / 180° / 270° upright	
Camera LED	Auto disable/Enable/Disable	
Positioning	Coordinates / Mounting height	
Camera view wizard	Motorized pan, tilt, roll, zoom, autofocus	
Video functions - color		
Adjustable picture settings	Contrast, Saturation, Brightness	
White Balance	2500 to 10000K, 4 automatic modes (Basic, Standard, Sodium lamp, Dominant color), Manual mode and Hold mode	
Video functions - ALC		
ALC	Mode (standard, fluorescent), Level , Average vs. peak, Speed, Maximum gain	
Exposure	Automatic Electronic Shutter (AES); Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter, Maximum shutter	
P-iris	Automatic/manual, priority	
Day/Night	Auto (adjustable switch points), Color, Monochrome	
Video functions - enhance		
Sharpness	Sharpness enhancement level selectable	
Backlight compensation	On/off	
Contrast enhancement	On/off	
Noise reduction	Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments	

Video functions - enhance		
Intelligent defog	Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)	
Video content analysis		
Analysis type	Intelligent Video Analytics, Camera Trainer	
Maximum IVA detection range	Wide: 5.01 m - 32.68 m (16.44 ft - 107.22 ft) Tele: 15.29 m - 150.09 m (50.16 ft - 492.42 ft) (depending on setup and scene)	
Configurations	Silent VCA / Profile1/2 / Scheduled / Event triggered	
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	
Calibration / Geolocation	Automatic, based on gyro sensor, focal length and camera height	
Additional functionalities	Tamper detection, Face detection	
Additional functions		
Scene modes	10 default modes with scheduler: Standard, Sodium lighting, Fast movement, Sensitivity boost, Dynamic backlight, Vibrant, Color only, Sports & Gaming, Retail, License Plate Recognition (LPR)	
Privacy Masking	Eight independent areas, fully programmable	
Display stamping	Name; Logo; Time; Alarm message	
Pixel counter	Selectable area	
Local storage		
Internal RAM	5 s pre-alarm recording	
Memory card slots	Dual SDXC/SDHC microSD card slots, up to 2TB.	
Dual SD-card slot configurations	<ul> <li>Mirror (redundant storage)</li> <li>Failover (extended service interval)</li> <li>Extend (maximum retention time)</li> </ul>	

	Automatic Network Replenishment
Industrial SD cards	Extreme lifetime and health monitoring support that provides early service indication.
Input/output	
Ethernet	Shielded RJ45
Surge protection	Ethernet: 1 kV, 2 kA to ground (8/20 μs pulse)
Fiber optics (sold separately)	The Fiber Optic Ethernet Media Converter kit (VG4-SFPSCKT) installed inside a Surveillance Cabinet (NDA-U-PA0, NDA-U-PA1 or NDA-U-PA2) provides the fiber optic interface to the mounted camera.
Audio streaming	
Audio input	Built-in microphone (can be permanently disabled)
Standard	G.711, 8 kHz sampling rate
	L16, 16 kHz sampling rate
	AAC-LC, 48 kbps at 16 kHz sampling rate
	AAC-LC, 80 kbps at 16 kHz sampling rate
Signal-to-Noise Ratio	>50 dB
Network	
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCF 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, Dropbox™, CHAP digest authentication
Ethernet	10/100 Base-T
Interoperability	ONVIF Profile S; ONVIF Profile G; ONVIF Profile M; ONVIF Profile T
Data security	
Crypto Coprocessor (TPM)	RSA 2048 bit, AES/CBC 256 bit
PKI	X.509 certificates
Encryption	Full end-to-end encryption with supported VMS Network: TLS1.0/1.2, AES128, AES256 Local storage: XTS-AES

Wideo authentication       checksum, MD5, SHA-1, SHA-256         Mechanical       177 x 148 mm (6.97 x 5.83 in)         Weight       1988.45 g (4.38 lbs)         Mounting       Surface mount         Color       White (RAL9003)         Motorized PTR range       Pan: 0° to +361°; Tilt: -3° to +85°; Roll: -95° to +95°         Dome bubble       Polycarbonate, clear with UV blocking antiscratch coating         Housing       Aluminum with dehumidifying membrane and polycarbonate shell         Environmental       Operating temperature       -20 °C to +55 °C (-4 °F to +131 °F) for continuou operation	Data security		
Dimensions (D x H)  177 x 148 mm (6.97 x 5.83 in)  Weight  1988.45 g (4.38 lbs)  Mounting  Surface mount  Color  White (RAL9003)  Motorized PTR range  Pan: 0° to +361°; Tilt: -3° to +85°; Roll: -95° to +95°  Dome bubble  Polycarbonate, clear with UV blocking antiscratch coating  Housing  Aluminum with dehumidifying membrane and polycarbonate shell  Environmental  Operating temperature  -20 °C to +55 °C (-4 °F to +131 °F) for continuou	Video authentication	checksum, MD5, SHA-1, SHA-256	
Weight  1988.45 g (4.38 lbs)  Mounting  Surface mount  Color  White (RAL9003)  Motorized PTR range  Pan: 0° to +361°; Tilt: -3° to +85°; Roll: -95° to +95°  Dome bubble  Polycarbonate, clear with UV blocking antiscratch coating  Housing  Aluminum with dehumidifying membrane and polycarbonate shell  Environmental  Operating temperature  -20 °C to +55 °C (-4 °F to +131 °F) for continuou	Mechanical		
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Housing  Aluminum with dehumidifying membrane and polycarbonate shell  Environmental  Operating temperature  -20 °C to +55 °C (-4 °F to +131 °F) for continuou	Motorized PTR range	Tilt: -3° to +85°;	
polycarbonate shell  Environmental  Operating temperature -20 °C to +55 °C (-4 °F to +131 °F) for continuou	Dome bubble		
Operating temperature -20 °C to +55 °C (-4 °F to +131 °F) for continuou	Housing		
	Environmental		
	Operating temperature	-20 °C to +55 °C (-4 °F to +131 °F) for continuous operation	
Storage temperature -30 °C to +70 °C (-22 °F to +158 °F)	Storage temperature	-30 °C to +70 °C (-22 °F to +158 °F)	
Operating humidity 5% to 93% RH non condensing	Operating humidity	5% to 93% RH non condensing	
Storage humidity Up to 98% RH	Storage humidity	Up to 98% RH	
Impact resistance casing and dome IK10	•	IK10	
Water/dust protection IP5X, IP54 with NDA-8001-IP	Water/dust protection	IP5X, IP54 with NDA-8001-IP	

# **Ordering information**

# NDV-8502-R Fixed dome 2MP HDR 3-9mm PTRZ

Fixed dome 2 MP PTRZ H.265 IVA NDAA compliant

Order number NDV-8502-R | F.01U.396.935

## Accessories

# NDA-8001-IP IP54 protection kit, 3 pcs

NDA-8001-IP IP54 protection kit, 3 pcs Order number NDA-8001-IP | F.01U.394.830

NDA-8000-CBL Clear replacement bubble

Clear replacement bubble.

Order number NDA-8000-CBL | F.01U.324.934

## **NDA-8000-TBL Tinted Bubble**

Tinted bubble for FLEXIDOME IP 8000i.

Order number NDA-8000-TBL | F.01U.324.973

## NDA-8001-IC In-ceiling mount kit

In-ceiling mount kit for FLEXIDOME IP 8000i with microphone support

Order number NDA-8001-IC | F.01U.398.407

### NDA-8001-PLEN Plenum-rated mount kit

Plenum-rated in-ceiling mount kit for FLEXIDOME IP 8000i with microphone support Order number NDA-8001-PLEN | F.01U.398.393

# NDA-8000-SP In-ceiling mount support kit

Soft ceiling support for in-ceiling mount kit for FLEXIDOME IP 8000i.

Order number NDA-8000-SP | F.01U.324.937

# NDA-8000-PIP Pendant interface plate, indoor

Pendant interface plate for FLEXIDOME IP 8000i and FLEXIDOME IP panoramic 6000/7000 outdoor. Order number NDA-8000-PIP | F.01U.324.938

### **NDA-U-WMT Pendant wall mount**

Universal wall mount for dome cameras, white Order number NDA-U-WMT | F.01U.324.939

### NDA-U-PMT Pendant pipe mount, 12" (31cm)

Universal pipe mount for dome cameras, 31 cm, white Order number NDA-U-PMT | F.01U.324.940

### NDA-U-PMTS Pendant pipe mount, 4" (11 cm)

Universal pendant pipe mount for dome cameras, 11 cm (4"), white

Order number NDA-U-PMTS | F.01U.385.046

# NDA-U-PMTE Pendant pipe extension, 20" (50cm)

Extension for universal pipe mount, 50 cm, white Order number NDA-U-PMTE | F.01U.324.941

### NDA-U-PSMB Pendant wall/ceiling mount SMB

Surface mount box (SMB) for wall mount or pipe mount. Order number NDA-U-PSMB | F.01U.324.942

### NDA-U-PMAL Pole mount adapter large

Universal pole mount adapter, white; large Order number NDA-U-PMAL | F.01U.324.944

# NDA-U-PMAS Pole mount adapter small

Pole mount adapter small

Universal pole mount adapter, white; small. Order number NDA-U-PMAS | F.01U.324.943

# NDA-U-WMTG Pendant wall mount, gang box

Universal wall mount, compatible with gang box installation for fixed dome cameras only, white Order number NDA-U-WMTG | F.01U.358.358

### NDA-U-PMTG Pendant pipe mount, gang box

Universal pipe mount, compatible with gang box installation for fixed dome cameras only, white Order number NDA-U-PMTG | F.01U.358.359

### Represented by:

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