FLEXIDOME starlight 8000i - 8MP

www.boschsecurity.com





The FLEXIDOME IP starlight 8000i delivers an exceptional image quality and High Dynamic Range with 4K ultra HD resolution for highly detailed images even in challenging conditions. It delivers excellence in video security and data management and has built-in state-of-the-art Intelligent Video Analytics as standard. It's rugged and aesthetic design makes the camera suitable for any indoor or outdoor installation. 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.



- Wireless or remote configuration and commissioning with the Project Assistant app. Pan, Tilt, Roll and Zoom (PTRZ) to set the camera to the required field of view, without having to touch the camera or lens
- Intelligent streaming, IDNR and H.265 reduce bit rate by up to 80%
- ▶ 8MP (4K UHD) for exceptional detail at fast speeds
- Built-in Intelligent Video Analytics to trigger alerts and quickly retrieve data with the highest levels of accuracy
- High Dynamic Range to see every detail in both bright and dark areas of the scene

With the FLEXIDOME IP starlight 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 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. Wireless or remote configuration and commissioning can also be done at a later stage once all cameras have been installed. Simply connect the Bosch Project Assistant app, available for iOS, Windows or Android, wirelessly to the camera. Or connect to the camera remotely via the network using 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 images of fast moving objects in high resolutions. The high resolution provides a clear overview and detailed images.

Starlight performance

The latest sensor technology combined with the sophisticated image processing and noise suppression results in an exceptional sensitivity in color. The lowlight 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 multipleexposure 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, make the bandwidth consumption drop 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.

Storage calculator

To calculate the bandwidth and storage capacity required for a camera setup please refer to the Bosch Storage Calculator on: www.boschsecurity.com/ StorageCalculator

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 new compression standard of choice for IP video surveillance systems.

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.

DORI coverage

DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a camera 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:

8 MP Camera with 3.9 mm - 10 mm lens

DORI	DORI definition	Distance 3.9 mm / 10 mm	Horizontal width
Detect	25 px/m	47 m / 190 m	154 m
	8 px/ft	147 ft / 594 ft	480 ft
Observe	63 px/m	19 m / 75 m	61 m
	19 px/ft	62 ft / 250 ft	202 ft

DORI	DORI definition	Distance 3.9 mm / 10 mm	Horizontal width
Recognize	125 px/m	9 m / 38 m	31 m
	38 px/ft	31 ft / 125 ft	101 ft
Identify	250 px/m	5 m / 19 m	15 m
	76 px/ft	16 ft / 63 ft	51 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 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

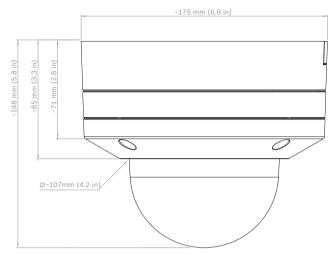
A full line of universal accessories are available that allow a consistent design across different platforms and a wide range of installation possibilities. Several dedicated accessories are available that seamlessly fit to the camera and expand the different installation options over previous generations.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

Certifications and approvals

Standards		Туре
Emission		ETSI EN 301 489-1 EN 50121-4 47CFR15, class B (STP) and 47CFR15, class A (UTP) AS/NZS CISPR 32
Immunity		EN 50130-4 EN 50121-4
Environmental		EN 50130-5 (Class IV); 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 60068-2-52, EN 60068-2-75, EN 60068-2-78 UL 2043 combined with NDA-8000-PLEN NEMA TS-2 chapter 2.1
Safety		EN 62368-1 EN 60950-22 UL 62368-1 UL 60950-22 CAN/CSA-C22.2 No. 62368-1 CAN/CSA-C22.2 No. 60950-22-07
Image performa	nce	IEC 62676-5
UHD		SMPTE 2036 (Resolution: 3840 x 2160) 4K UHD (2160p)
Color representation		ITU-R BT.709-6
ONVIF conforma	ince	EN 50132-5-2 EN 62676-2
Impact protection	on	EN 62262 (IK10+)
Water/dust protection		EN 60529 (IP66) UL50E (Type 4X)
Environment		EN 50581 (RoHS)
Marks		CE, cULus, WEEE, RCM, EAC and China RoHS
Region	Reg	ulatory compliance/quality marks
Europe	CE	EU Declaration of Conformity
USA	UL	E243325-UL TC 20190122

Installation/configuration notes

Dimensions



Technical specifications

Power

Input voltage	PoE IEEE 802.3af / 802.3at Type 1, Class 3 24 VAC ±10% 12-26 VDC ±10% PoE and auxiliary power can be connected simultaneously for redundant operation
Power Consumption (typical / maximum)	PoE: 7 W / 13 W 24 VAC: 7.1 W - 12 VA / 13 W - 25 VA 12-26 VDC: 7.5 W / 16 W

Sensor

Sensor type	1/1.8-inch CMOS
Total sensor pixels	3840 (H) x 2160 (V), 8MP (approx.)

Starlight sensitivity (3.9 to 10 mm lens)

Measured according to IEC 62676 Part 5 (1/25, F1.5)

Color	0.041 lx
Mono	0.0072 lx

Video performance - Dynamic range

Wide Dynamic Range	120 dB WDR
Measured according to IEC 62676 Part 5	107 dB WDR (3.9 to 10 mm lens)

Optical (3.9 to 10 mm lens)

Lens	3.9 to 10 mm P-iris lens (IR corrected) F-stop 1.5 - 2.7
Adjustment	Motorized zoom/focus
Iris control	P-iris control
Viewing angle	Wide: 117° x 62° (H x V)

Video streamingVideo compressionH.265;Sensor modes20 fps, 25 fps, 30 fps,StreamingMultiple 265 and bandwid Regions Bosch IrCamera latency120 msGOP structureIPFrame rate1-30 fpsSignal-to-Noise Ratio>55 dB	 * x 24° (H x V) H.264; M- JPEG HDR, 3840 x 2160 (8 MP) 3840 x 2160 (8 MP) 3840 x 2160 (8 MP) e configurable streams in H.264, H. 	
Video compressionH.265;Sensor modes20 fps, 25 fps, 30 fps,StreamingMultiple 265 and bandwid Regions Bosch IrCamera latency120 msGOP structureIPFrame rate1-30 fpsSignal-to-Noise Ratio>55 dB	HDR, 3840 x 2160 (8 MP) 3840 x 2160 (8 MP) 3840 x 2160 (8 MP) e configurable streams in H.264, H.	
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GOP structureIPFrame rate1-30 fpsSignal-to-Noise Ratio>55 dB	d M-JPEG, configurable frame rate and dth. of Interest (ROI) ntelligent Streaming	
Frame rate 1-30 fp: Signal-to-Noise Ratio >55 dB	(8 MP, 30 fps)	
Signal-to-Noise Ratio >55 dB		
	S	
(SNR)		
Video resolution (H x V)		
4K UHD 3840 x	2160	
7.3 MP 3584 x	2016	
2.8 MP (4:3) 1920 x	1440	
1080p HD 1920 x	1080	
Upright mode 1080p 1080 x	1920	
1.3 MP (5:4) 1280 x	1024	
720p HD 1280 x	720	
Upright mode 720p 720 x 1	280	
480p SD 854 x 4	80	
SD 4:3 (cropped) 704 x 4	80	
Camera installation		
Mirror image On / Off		
Rotate 0°/90°	upright / 180° / 270° upright	
Camera LED Enable/	disable	
Positioning Coordin	ator / Mounting height	
Camera view wizard Motorize	ates / Mounting height	
Wireless IEEE 80 commissioning	ed 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 level	Adjustable	
Saturation	Adjustable from peak to average	
Shutter	Automatic Electronic Shutter (AES); Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter	
Day/Night	Auto (adjustable switch points), Color, Monochrome	
Video functions - enh	ance	
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	
Intelligent defog	Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)	
Video content analys	is	
Analysis type	Intelligent Video Analytics	
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	
Tamper detection	Maskable	

Inde Inte Gan (LPIPrivacy MaskingEightFace detectionImageDisplay stampingName	default modes with scheduler: bor, Outdoor, Traffic, Night Optimized, lligent AE, Vibrant, Low bitrate, Sports & ning, Retail, License Plate Recognition R) at independent areas, fully programmable ge posting	
Face detection Image Display stamping Name Pixel counter Seletee		
Display stamping Nan Pixel counter Sele	ge posting	
Pixel counter Sele		
	ne; Logo; Time; Alarm message	
Local storage	ectable area	
Internal RAM 5 s j	ore-alarm recording	
Memory card slots Dua	I SDXC / SDHC / SD card slots.	
Dual SD-card slot configurations	 Mirror (redundant storage) Failover (extended service interval) Extend (maximum retention time) Automatic Network Replenishment 	
	eme lifetime and health monitoring port that provides early service indication.	
Input/output		
Power output +12	VDC, max 50mA	
Audio signal line in 10 k	(Ohm typical; 1 Vrms max	
Audio signal line out 1 Vr	ms; 1.5 kOhm typical	
	puts, activation voltage: +3.3 VDC to VDC	
	tput, maximum: 30 VAC or +40 VDC, A continuous, 10 VA	
Ethernet RJ4	5	
Surge protection Ethe	ernet: 1 kV, 2 kA to ground (8/20 µs pulse)	
separately) (VG Cab PA2	Fiber Optic Ethernet Media Converter kit 4-SFPSCKT) installed inside a Surveillance inet (NDA-U-PA0, NDA-U-PA1 or NDA-U- provides the fiber optic interface to the inted camera.	
Audio streaming		
L16 AAC	11, 8 kHz sampling rate , 16 kHz sampling rate -LC, 48 kbps at 16 kHz sampling rate -LC, 80 kbps at 16 kHz sampling rate	
Signal-to-Noise Ratio >50	dB	
Audio Streaming Full-		

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, Dropbox [™] , CHAP, digest authentication
Ethernet	10/100 Base-T, auto-sensing, half/full duplex
Connectivity	Auto-MDIX
Interoperability	ONVIF Profile S; ONVIF Profile G; ONVIF Profile T GB/T 28181
Data security	
Crypto Coprocessor (TPM)	RSA 2048 bit, AES/CBC 256 bit
FIPS	FIPS 140-2 Level 3 compliant
РКІ	X.509 certificates
Encryption	Full end-to-end encryption with supported VMS Network: TLS1.0/1.2, AES128, AES256 Local storage: XTS-AES
Video authentication	checksum, MD5, SHA-1, SHA-256
Mechanical	
Dimensions (D x H)	175 x 148 mm (6.9 x 5.7 in)
Weight	2.3 kg (5.07 lbs)
Mounting	Surface mount
Color	White (RAL9003)
Motorized PTR range	Pan: 0º to +361º Tilt: -3.5º to +89º Roll: -95º to +95º
Dome bubble	Polycarbonate, clear with UV blocking anti- scratch coating
Housing	Aluminum with dehumidifying membranes and waterproof connection area
Environmental	
Operating temperature	-50 °C to +60 °C (-58 °F to +140 °F) for continuous operation; Up to +74 °C (+165 °F) according to NEMA TS 2-2003 (R2008), para 2.1.5.1 using fig. 2.1 test profile
	-30 °C to +70 °C (-22 °F to +158 °F)
Storage temperature	-30 -6 (0 +70 -6 (-22 -1 (0 +130 -1)

Environmental	
Storage humidity	Up to 98% RH
Impact resistance casing and dome	IK10+ (50 joules)
Water/dust protection	IP 66 and NEMA Type 4X

Ordering information

NDE-8504-R Fixed dome 8MP HDR 3.9-10mm PTRZ IP66

Fixed dome 8MP PTRZ H.265 IVA IP66 Order number **NDE-8504-R**

Accessories

NDA-U-CMT Corner mount adapter Universal corner mount, white Order number NDA-U-CMT

NDA-U-PA0 Surveillance cabinet 24VAC Surveillance cabinet, 24 VAC input, 24 VAC output, **IP66** Order number NDA-U-PA0

NDA-U-PA1 Surveillance cabinet 120VAC Surveillance cabinet, 100 - 120 VAC 50/60 Hz input, 24 VAC output, IP66 Order number NDA-U-PA1

NDA-U-PA2 Surveillance cabinet 230VAC Surveillance cabinet, 230 VAC input, 24 VAC output, IP66 Order number NDA-U-PA2

NDA-U-PMAL Pole mount adapter large Universal pole mount adapter, white; large Order number NDA-U-PMAL

NDA-U-PMAS Pole mount adapter small Pole mount adapter small Universal pole mount adapter, white; small. Order number NDA-U-PMAS

NDA-U-PMT Pendant pipe mount, 12" (31cm) Universal pipe mount for dome cameras, 31 cm, white Order number NDA-U-PMT

NDA-U-PMTE Pendant pipe extension, 20" (50cm) Extension for universal pipe mount, 50 cm, white Order number NDA-U-PMTE

NDA-U-PSMB Pendant wall/ceiling mount SMB Surface mount box (SMB) for wall mount or pipe mount.

Order number NDA-U-PSMB

NDA-U-RMT Pendant parapet mount Universal roof mount for dome cameras, white Order number NDA-U-RMT

NDA-U-WMP Wall mount plate Back plate for universal wall mount, corner mount and pole mount, white, IP66 Order number NDA-U-WMP

NDA-U-WMT Pendant wall mount

Universal wall mount for dome cameras, white Order number NDA-U-WMT

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

NDA-8000-PIPW Pendant interface plate, outdoor

Pendant interface plate including weather protector for FLEXIDOME IP 8000i and FLEXIDOME IP panoramic 6000/7000 outdoor. Order number NDA-8000-PIPW

NDA-8000-CBL Clear replacement bubble Clear replacement bubble. Order number NDA-8000-CBL

NDA-8000-IC In-ceiling mount kit In-ceiling mount kit for FLEXIDOME IP 8000i. Order number NDA-8000-IC

NDA-8000-PC Paintable cover, 4 pcs Paintable cover (4 pieces) for FLEXIDOME IP 8000i. Order number NDA-8000-PC

NDA-8000-PLEN Plenum-rated in-ceiling mount kit Plenum-rated in-ceiling mount kit for FLEXIDOME IP 8000i. Order number NDA-8000-PLEN

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

NDA-8000-TBL Tinted Bubble Tinted bubble for FLEXIDOME IP 8000i. Order number NDA-8000-TBL

NDA-8000-WP On-camera weather protector On-camera weather protector for FLEXIDOME IP 8000i.

Order number NDA-8000-WP

VG4-SFPSCKT ETHERNET TO SFP INTERFACE KIT

Ethernet media converter video transmitter/data receiver fiber optic kit for AUTODOME cameras and for MIC-IP-PSU for MIC analog cameras. Order number VG4-SFPSCKT

SFP-2 Fiber module, multimode, 1310nm, 2LC

SFP Fiber Optic Module, 2 km (1.2 miles), 2 LC connectors. Multi-mode 1310 mm Order number SFP-2

SFP-3 Fiber module, single-mode, 1310nm, 2LC SFP Fiber Optic Module, 20 km (12.4 miles), 2 LC connectors. Single-mode 1310 nm Order number SFP-3

SFP-25 Fiber module, 1310/1550nm, 1SC SFP Fiber Optic Module, 2 km (1.2 miles), 1 SC connector Multi-mode 1310/1550 nm Order number SFP-25

SFP-26 Fiber module, 1550/1310nm, 1SC SFP Fiber Optic Module, 2 km (1.2 miles), 1 SC connector Multi-mode 1550/1310 nm Order number SFP-26

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** **NDA-U-WMTG Pendant wall mount, gang box** Universal wall mount, compatible with gang box installation for fixed dome cameras only, white Extension for universal pipe mount, 50 cm, white Order number **NDA-U-WMTG**

Represented by:

Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands Phone: + 31 40 2577 284 emea.securitysystems@bosch.com emea.boschsecurity.com Germany: Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany www.boschsecurity.com North America: Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 585 223 9180 onlinehelp@us.bosch.com www.boschsecurity.us

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems 11 Bishan Street 21 Singapore 573943 Phone: +65 6571 2808 Fax: +66 6571 2699 apr.securitysystems@bosch.com www.boschsecurity.asia

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