

FLEXIDOME IP turret 3000i IR - outdoor



The FLEXIDOME IP turret 3000i IR is built for high quality, 24/7 performance, with a range of reliable surveillance features, including Essential Video Analytics.

The compact and minimalist design provides ease of installation.

Functions

Essential Video Analytics

The built-in video analysis reinforces the Intelligenceat-the-Edge concept and now delivers even more powerful features. Essential Video Analytics is ideal for use in controlled environments with limited detection ranges.

The system reliably detects, tracks, and analyzes objects, and alerts you when predefined alarms are triggered. A smart set of alarm rules makes complex tasks easy and reduces false alarms to a minimum. Metadata is attached to your video to add sense and structure. This enables you to quickly retrieve the relevant images from hours of stored video. Metadata can also be used to deliver irrefutable forensic evidence or to optimize business processes based on people counting or crowd density information.

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.













- ▶ 1080p and 5MP resolutions
- ► Built-in Essential Video Analytics to trigger relevant alerts and quickly retrieve data
- ► Fully configurable H.265 multi-streaming
- ► High Dynamic Range (120 dB) for challenging bright and dark scenes
- ► Built-in IR illuminator with 15 m (49 ft) viewing distance

The actual dynamic range of the camera is measured using Opto-Electronic Conversion Function (OECF) analysis according to IEC 62676 Part 5.

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 triple 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 new compression standard of choice for IP video surveillance systems.

Tamper and motion detection

A wide range of configuration options is available for alarms signaling camera tampering. A built-in algorithm for detecting movement in the video can also be used for alarm signaling.

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.

Edge recording

Insert a memory card into the card slot to store up to 2 TB of local alarm recording. Pre-alarm recording in RAM reduces recording bandwidth on the network, and extends the effective life of the memory card. It has advanced edge recording providing a reliable storage solution possible due to the combination of these functions:

- Industrial SD card support allows for extreme lifetime
- Health monitoring of industrial SD cards provide early service indications.

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:

1080p camera with 2.3 mm or 2.8 mm lens

DORI	DORI definition	Distance 2.3 mm/2.8 mm	Horizontal width
Detect	25 px/m	17 m/28 m	77 m
	(8 px/ft)	(56 ft/93 ft)	(252 ft)
Observe	63 px/m	7 m/11 m	30 m
	(19 px/ft)	(22 ft/37 ft)	(100 ft)
Recognize	125 px/m	3 m/6 m	15 m
	(38 px/ft)	(11 ft/19 ft)	(50 ft)
Identify	250 px/m	2 m/3 m	8 m
	(76 px/ft)	(6 ft/9 ft)	(25 ft)

5.3MP camera with 2.3 mm or 2.8 mm lens

DORI	DORI definition	Distance 2.3 mm/2.8 mm	Horizontal width
Detect	25 px/m	37 m/57 m	123 m
	(8 px/ft)	(121 ft/188 ft)	(403 ft)
Observe	63 px/m	15 m/23 m	49 m
	(19 px/ft)	(48 ft/75 ft)	(160 ft)
Recognize	125 px/m	7 m/11 m	25 m
	(38 px/ft)	(24 ft/38 ft)	(81 ft)
Identify	250 px/m	4 m/6 m	12 m
	(76 px/ft)	(12 ft/19 ft)	(40 ft)

True day/night switching

The camera incorporates mechanical filter technology for vivid daytime color and exceptional night-time imaging while maintaining sharp focus under all lighting conditions.

Easy installation

Power for the camera can be supplied via a Power-over-Ethernet compliant network cable connection. With this configuration, only a single cable connection is required to view, power, and control the camera. Using PoE makes installation easier and more cost-effective, as cameras do not require a local power source.

The camera can also be supplied with power from +12 VDC power supplies.

For trouble-free network cabling, the camera supports Auto-MDIX which allows the use of straight or cross-over cables.

Data security

Special measures have been put in place to ensure the highest level of security for device access and data transport. The three-level password protection with security recommendations allows users to customize device access. Web browser access can be protected using HTTPS and firmware updates can also be protected with authenticated secure uploads. The on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) support, guarantee superior protection from malicious attacks. The 802.1x network authentication with EAP/TLS, supports TLS 1.2 with updated cipher suites including AES 256 encryption.

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

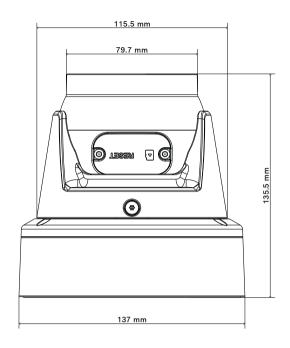
System integration and ONVIF conformance

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.

Certifications and approvals

Emission	Standard	Туре
AS/NZS CISPR 32	Emission	EN 55032
Immunity		CFR 47 FCC part 15, Class B
EN 50121-4 Environmental EN 50130-5 (Class IV); EN 60068-2-1, EN 60068-2-2, EN 60068-2-2, EN 60068-2-30, EN 60068-2-27, EN 60068-2-30, EN 60068-2-52, EN 60068-2-75, EN 60068-2-78, EN 60068-2-78, EN 60068-2-5 Safety EN 62368-1 EN 60950-22 UL 62368-1 UL 60950-22 IEC 62471 (IR safety) CAN/CSA-C22.2 No. 60950-1 CAN/CSA-C22.2 No. 60950-22-07 Image performance IEC 62676-5 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 (IP66) Environmental EN 50581 (RoHS)		AS/NZS CISPR 32
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Environmental EN 50581 (RoHS)	Impact protection	EN 62262 (IK10)
	Water/dust protection	EN 60529 (IP66)
Marks CE, FCC, cULus, WEEE, RCM, VCCI, EAC, CMIM	Environmental	EN 50581 (RoHS)
	Marks	CE, FCC, cULus, WEEE, RCM, VCCI, EAC, CMIM

Installation/configuration notes



Technical specifications

Power		
Input voltage	POE IEEE 802.3af / 802.3 at Type 1, Class 3	
	12 VDC ±30%	
Power consumption	PoE: 3.5 W / 10.5 W	
(typical / maximum)	12 VDC: 3.1 W / 9.5 W	
Sensor - 2 MP		
Sensor type	1/2.8 inch CMOS	
Effective pixels	1920 (H) x 1080 (V)	
Sensor - 5.3 MP		
Sensor type	1/2.9 inch CMOS	
Effective pixels	3072 (H) x 1728 (V)	
Video performance - Sensitivity		

2MP

Measured according to IEC 62676 Part 5 (1/30, F1.6 or F2.2)

•	Color	0.1 lx
•	Mono	0.02 lx
•	With IR	0.0 lx

Video performance - Sensitivity		
5.3MP	nisitivity	
Measured according to II	EC 62676 Part 5 (1/30, F1.6 or F2.2)	
• Color	0.5 lx	
• Mono	0.08 lx	
• With IR	0.0 lx	
Video performance - Dy	namic range	
High Dynamic Range	120 dB WDR	
Measured according to II	EC 62676 Part 5	
2 MP	103 dB	
5.3 MP	101 dB	
Optical		
Lens type	2.3 mm fixed, F2.2 2.8 mm fixed, F1.6	
Day/Night	Switchable IR-cut filter	
Field of view		
2 MP	2.3 mm: 132° x 77° (H x V) 2.8 mm: 107° x 57° (H x V)	
5.3 MP	2.3 mm: 118° x 69° (H x V) 2.8 mm: 94° x 51° (H x V)	
Night vision		
Distance	15 m (49 ft)	
LED	2 LEDs, 850 nm	
IR intensity	Adjustable	
Video streaming		
Video compression	H.265; H.264; M- JPEG	
Sensor modes		
2 MP	30 fps, HDR, 1920 x 1080 25 fps, HDR, 1920 x 1080	
5.3 MP	20 fps, HDR, 3072 x 1728 (5.3 MP) 25 fps, HDR, 2720 x 1530 (4.1 MP)	
Streaming	Multiple configurable streams in H.264 or H.265 and M-JPEG, configurable frame rate and bandwidth. Regions of Interest (ROI)	
GOP structure	IP	

Video streaming		
Encoding interval		
2 MP	1 to 30 fps	
5.3 MP	1 to 20 fps (5.3 MP)	
	1 to 25 fps (4.1 MP)	
Signal-to-noise ratio (SNR)	>55 dB	
Video resolution - 2 MP		
1080p HD	1920 x 1080	
720p HD	1280 x 720	
SD	768 x 432	
D1	720 x 480	
VGA	640 x 480	
Video resolution - 5 MP		
5.3 MP	3072 x 1728	
4.1 MP	2720 x 1530	
3 MP	2304 x 1296	
1080p HD	1920 x 1080	
720p HD	1280 x 720	
SD	768 x 432	
D1	720 x 480	
VGA	640 x 480	
Camera installation		
Mirror image	On / Off	
Rotation	0°/90°/180°/270°	
Camera LED	Enable / Disable	
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		
Shutter	Automatic Electronic Shutter (AES); Fixed (1/25[30] to 1/15000) selectable; Default shutter	
Day/Night	Auto (adjustable switch points), Color, Monochrome	
Video functions - enhan	ice	
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 analysis		
Analysis type	Essential Video Analytics	
Features	Rule based alarms and tracking, Line crossing, Enter / leave field, Follow route, Loitering, Idle / removed object, People counting, Crowd density estimation, 3D tracking	
Additional functions		
Privacy Masking	Eight independent areas, fully programmable	
Display stamping	Name, Logo, Time; Alarm message	
Pixel counter	Selectable area	
Local storage		
Internal RAM	up to 5 s pre-alarm recording	
Memory card slot	microSDHC / microSDXC SD card slot	
Memory card slot Industrial SD cards	microSDHC / microSDXC SD card slot Extreme lifetime and health monitoring support that provides early service indication	
	Extreme lifetime and health monitoring support	
Industrial SD cards	Extreme lifetime and health monitoring support	
Industrial SD cards Input/output	Extreme lifetime and health monitoring support that provides early service indication $CVBS: 1.0\ Vp-p\ /\ 75\Omega\ composite,\ 720\ x\ 480$	
Industrial SD cards Input/output Analog video out	Extreme lifetime and health monitoring support that provides early service indication	
Industrial SD cards Input/output Analog video out Audio line in	Extreme lifetime and health monitoring support that provides early service indication	

Input/output		
Alarm output	Maximum load: 12 VDC / 50 mA	
Ethernet	RJ45 connector	
Audio streaming		
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	
Audio Streaming	Full-duplex / half duplex	
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, noip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox™, CHAP, digest authentication	
Encryption	TLS1.0/1.2, AES128, AES256	
Ethernet	10/100 Base-T	
Interoperability	ONVIF Profile S; ONVIF Profile G; ONVIF Profile T: GB/T 28181	
Mechanical		
Dimensions (Ø x H)	137 x 135 mm (5.39 x 5.31 in)	
Weight (approx.)	1132.90 g (2.49 lbs)	
Mounting	Surface mount	
Color	White (RAL9003)	
3-axis adjustment (pan/tilt/rotation)	Pan: 0° to 350°; Tilt: 0° to 78°; Roll: 0° to 360°;	
Dome bubble	Polycarbonate, clear with anti-scratch coating	
Environmental		
Operating temperature (continuous)	-30 °C to +50 °C (-22 °F to +122 °F)	
Storage temperature	-30 °C to +70 °C (-22 °F to +158 °F)	
Humidity	5% to 100% relative humidity (condensing);	

Environmental		
	5% to 93% relative humidity (non condensing)	
Storage humidity	Up to 98% relative humidity	
Impact resistance	IK10	
Water/dust protection	IP66	

Ordering information

NTE-3502-F02L Turret camera 2MP HDR 130° IP66 IK10 IR

IP turret camera with tamper and motion detection; 2MP HD 1080p resolution; 130° lens; with built-in IR illuminator; outdoor; IP66; IK10; EVA.

Order number NTE-3502-F02L | F.01U.385.763 F.01U.393.627

NTE-3502-F03L Turret camera 2MP HDR 100° IP66 IK10 IR

IP turret camera with tamper and motion detection; 2MP HD 1080p resolution; 100° lens; with built-in IR illuminator; outdoor; IP66; IK10; EVA.

Order number NTE-3502-F03L | F.01U.385.764 F.01U.393.628

NTE-3503-F02L Turret camera 5MP HDR 120° IP66 IK10 IR

IP turret camera with tamper and motion detection; 5MP resolution; 120° lens; with built-in IR illuminator; outdoor; IP66; IK10; EVA.

Order number NTE-3503-F02L | F.01U.385.765 F.01U.393.629

NTE-3503-F03L Turret camera 5MP HDR 100° IP66 IK10 IR

IP turret camera with tamper and motion detection; 5MP resolution; 100° lens; with built-in IR illuminator; outdoor; IP66; IK10; EVA.

Order number NTE-3503-F03L | F.01U.385.766 F.01U.393.630

Accessories

NDA-3080-CND Conduit adapter 3000i outdoor camera M20

Conduit adapter for NDE-3000 outdoor camera Order number NDA-3080-CND | F.01U.379.489

NDA-3080-PIP Pendant interface plate NDE-3000 Pendant interface plate for NDE-3000 dome

Order number **NDA-3080-PIP** | **F.01U.379.474**

NDA-3080-4S 4S adapter plate NDE-3000 4S adapter plate for NDE-3000 dome camera

Order number **NDA-3080-45 | F.01U.379.488**

NDA-U-CMT Corner mount adapter

Universal corner mount, white Order number NDA-U-CMT | F.01U.324.946

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-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-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-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-WMP Wall mount plate

Back plate for universal wall mount, corner mount and pole mount, white, IP66

Order number NDA-U-WMP | F.01U.324.950

NDA-U-WMT Pendant wall mount

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

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

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-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**

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

Power-over-Ethernet midspan injector for use with PoE enabled cameras; 15.4 W, 1-port

Weight: 200 g (0.44 lb)

Order number NPD-5001-POE | F.01U.305.288

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

Power-over-Ethernet midspan injector for use with PoE enabled cameras; 15.4 W, 4-ports

Weight: 620 g (1.4 lb)

Order number NPD-5004-POE | F.01U.305.289

UPA-1220-50 Power supply, 220VAC 50Hz, 12VDC 1A out

Power supply for camera. 110-240 VAC, 50/60 Hz In; 12 VDC, 1 A Out; regulated.

Input connector: 2-prong, European Europlug standard (4 mm / 19 mm).

Order number UPA-1220-50 | F.01U.076.158

UPA-1220-60 Power supply, 120VAC 60Hz,12VDC 1A out

Power supply for camera. 100-240 VAC, 50/60 Hz In; 12 VDC, 1 A Out; regulated.

Input connector: 2-prong, North American standard (non-polarized).

Order number **UPA-1220-60 | F.01U.076.155**

Represented by:

Burope, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: 43 140 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, LLC
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: +65 6571 2699
apr. securitysystems@bosch.com
www.boschsecurity.asia