

# NDE-7604-AL Fixed dome 8MP IP66 IK10 IR FLEXIDOME inteox 7100i IR



The NDE-7604-AL camera is "Driven by OSSA", ensuring seamless connectivity with the Azena Application Store to add third-party software apps easily that meet customer-specific requirements. The camera delivers high image quality with 4K resolution for demanding security and surveillance requirements.

# Intelligent open, flexible, and extendable camera platform

The camera has a powerful, embedded processor with dedicated hardware to support advanced machine learning and neural-network-based Video Analytics. All cameras with this platform have high image quality, built-in Video Analytics, intelligent bitrate management, and the highest levels of data security. The platform also gives you the flexibility to customize your camera to your specific requirements. The camera platform integrates with the cloud infrastructure of Azena for app management across devices. Also, Bosch offers advanced device management and services through the Bosch Remote Portal (https://remote.boschsecurity.com/). From the Bosch Remote Portal you can (remotely):

- Complete initial configuration of your online and connected Bosch devices.
- Update firmware for single or multiple devices.
- Manage certificates through Configuration Manager or the web interface of your camera.
- Monitor the health of and receive alerts for your connected Bosch devices.
- Connect your Bosch devices to the Azena portal for app management.



- Open platform that allows third-party apps from the Application store from Azena
- ► H.265 reduces bit rate by up to 80%
- ▶ 8MP (4K UHD) for exceptional detail
- Built-in Intelligent Video Analytics to trigger alerts and quickly retrieve data with the highest levels of accuracy

## Functions

#### **Dynamic Noise Reduction**

Smart encoding capabilities reduce the bandwidth consumption to extremely low levels. 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 80% 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.

## More flexibility in streaming capabilities

The camera has three independent encoder streams. Users can configure each stream individually to change the video resolution and the frame rate. Users have two options:

- 1. Let the camera deliver what is possible based on its encoding performance across the streams equally.
- 2. Select one of the three streams to be prioritized, for example, to guarantee "quality of service" for the recording stream.

Users can select the coding standard (H.264/H.265) for each stream.

Each stream also has its own set of 8 encoder profiles that users can configure.

#### **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

#### Intelligent Video Analytics on the edge

This intelligence-at-the-edge concept allows a decision on which videos are captured based on video content analysis. By only selecting alarm video for streaming or recording, less bandwidth and storage is used. Alarm conditions can be signaled by a relay output on the unit or an alarm connection, to stream video to a decoder or video management system. Alarms can also be transmitted to a video management system to start extended alarm scenarios.

As well as creating alarms, Intelligent Video Analytics produces metadata that describes the content of the analyzed scene. This metadata is sent over the network—and may also be recorded—together with the video stream.

With a future-proof design, the camera can tackle new use cases by delivering more reliable detections and thus more insights on what is happening in a scene. Based on the open platform principle, these capabilities are leveraged by Intelligent Video Analytics by Bosch as well as by third-party apps from the Application store from by Bosch as well as by third-party apps from the Application store from Azena.

#### **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:

# 8 MP camera with 3.6 mm - 10 mm lens

DORI	DORI definition	Distance 3.6 mm/10 mm	Horizontal width
Detect	25 px/m	68 m/181 m	154 m
	(8 px/ft)	(212 ft/565 ft)	(480 ft)
Observe	63 px/m	27 m/72 m	61 m
	(19 px/ft)	(89 ft/238 ft)	(202 ft)
Recognize	125 px/m	14 m/36 m	31 m
	(38 px/ft)	(45 ft/119 ft)	(101.1 ft)
Identify	250 px/m	7 m/18 m	15 m
	(76 px/ft)	(22 ft/60 ft)	(50.5 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. 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 Only trusted and authenticated third-party apps can be uploaded. A safe sandbox environment enables the secure execution of trusted third-party software. There is full transparency on individual app requirements to access system resources (listed in the Application store from Azena).

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**

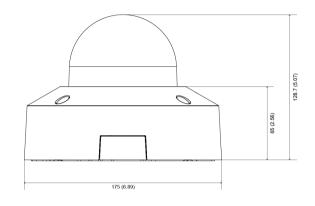
Degulatory information

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.

Regulatory infor	mation
Standards	Туре
Emission	EN 50121-4
	EN 55032 (class B)
	CFR 47 FCC part 15 (class B)
Immunity	EN 50121-4
	EN 50130-4
Environmental	EN 50130-5 (Class IV)
	EN 50581
	RoHS EU, 2011/65/EU
	WEEE EU, 2012/19/EU
	Packaging EU, 94/62/EU
	N2580-1 (Bosch standard)
	N33.6 (Bosch standard)
Safety	EN 62368-1
	UL 62368-1
	IEC 62368-1
	EN 62471 (Eye safety for IR)
ONVIF conformance	EN 50132-5-2
	EN 62676-2
Impact protection	EN 62262 (IK10)
Water/dust protection	EN 60529 (IP66)
	UL50E (Type 4X)

Standards	Туре
Marks	CE, FCC, WEEE, cULus, C-Tick, VCCI

#### Installation/configuration notes



Parts inc	luded	
Quantity	Component	
1	FLEXIDO	ME inteox 7100i camera
1	Quick Ins	tallation Guide
1	Safety ins	structions
Technica	l specif	ications
Power		
Input voltage		PoE 802.3at Type 2, Class 4 24 VAC ±10% PoE and auxiliary power can be connected simultaneously for redundant operation
Power Consu (typical / max	•	PoE+: Max. 25.5 W 24 VAC: 7.1 W - 25 W/ 13 W - 25 W
Sensor		
Sensor type		1/1.8-inch CMOS
Total sensor p	oixels	3840 (H) x 2160 (V), 8MP (approx.)
Video perfor	mance - Se	ensitivity
Sensitivity - (3200K, reflectivity 89%, F1.5, 30IRE)		
Color		0.189 lux
Mono		0.0316 lux

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(SNR) Video resolution (H x V) 4K UHD 3840 x 2160	Frame rate	1-30 fps
4K UHD 3840 x 2160	-	>55 dB
	Video resolution (H x V	)
5 MP 2560 x 1440	4K UHD	3840 x 2160
	5 MP	2560 x 1440

1000-110	1000 1000
1080p HD	1920 x 1080
1.3 MP	1536 x 864
720p HD	1280 x 720
480p SD	768 x 342
SD 4:3 (cropped)	512 x 480
Camera installation	
Mirror image	On / Off
Rotate	0° / 90° upright / 180° / 270° upright
Camera LED	Automatic
Camera view wizard	Zoom, autofocus
Video functions - color	
Exposure control	Automatic, Manual
Manual exposure control adjustments	Shutter, Gain, Iris
Day / Night	Automatic, Color, Monochrome
Zoom position / Focus position	One push auto focus
White balance	Automatic, Manual
Manual white balance adjustments	Red gain, Blue gain
Video content analysis	i
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

Video content analysi	
Tamper detection	Maskable
Additional functions	
Privacy Masking	One area, fully programmable
Display stamping	Name; Logo; Time; Alarm message
Local storage	
Memory card slots	microSDHC / microSDXC SD card slot
Industrial SD cards	Extreme lifetime
Input/output	
Audio signal line in	10 kOhm typical; 1 Vrms max
Audio signal line out	1 Vrms; 1.5 kOhm typical
Alarm input	1 input, activation voltage: +3.3 VDC to +40 VDC
Alarm output	2 outputs, maximum: 30 VAC or +40 VDC, 0.5 A continuous, 10 VA
Ethernet	RJ45
Surge protection	Ethernet: 1 kV to ground (8/20 µs pulse)
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, NTP (SNTP), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox <sup>™</sup> , CHAP, digest authentication
Encryption	TLS1.0/1.2, AES128, AES256
Ethernet	10/100/1000 Base-T, auto-sensing, half/full duplex
Connectivity	Auto-MDIX

Interoperability	ONVIF Profile S; ONVIF Profile GONVIF 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
Video authentication	checksum, MD5, SHA-1, SHA-256
Mechanical	
Dimensions (D x H)	175 x 130 mm (6.9 x 5.1 in)
Weight	1.5 kg (3.31 lbs)
Mounting	Surface mount
Color	White (RAL9003)
PTR range	Pan: 0° to +370° Tilt: 0° to +75° Roll: 0° to +355°
Dome bubble	Polycarbonate, clear with UV blocking anti- scratch coating Anti-reflection coating UV resistant Scratch resistant
Housing	Aluminum with dehumidifying membranes and waterproof connection area
Environmental	
Operating temperature	-40 °C to +50 °C (-40 °F to +122 °F) for continuous operation;
Storage temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating humidity	5% to 93% relative humidity non condensing 5% to 100% relative humidity condensing
Storage humidity	Up to 98% relative humidity
Impact resistance casing and dome	IK10
Water/dust protection	IP 66 and NEMA type 4X

## **Ordering information**

#### NDE-7604-AL Fixed dome 8MP IP66 IK10 IR

Fixed dome 8MP H.265 IVA IP66 IK10 IR running an open camera platform

Order number NDE-7604-AL | F.01U.394.577

#### Accessories

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-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** 

Order number NDA-U-PMT | F.01U.324.940

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

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-RMT Pendant parapet mount

Universal roof mount for dome cameras, white Order number NDA-U-RMT | F.01U.324.945

## 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** 

## Services

EWE-D71IR-IW 12 mths wrty ext inteox 7100i IR 12 months warranty extension Order number EWE-D71IR-IW | F.01U.396.736

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