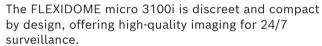


NUE-3703-F06 Micro dome 5MP HDR 56° IP66 IK10

FLEXIDOME micro 3100i





It includes IVA Pro Buildings deep-learning-based video analytics for reliable detection in and around buildings and a built-in Secure Element for the highest level of data security.

This environmental variant leverages IK10 and IP66 ratings, making the housing durable for outdoor and vandal-prone indoor applications.

Unique corner and L-shape wall mounts enable discreet mounting.

Additionally, the cameras are compatible with the Bosch Modular Mounts.

Functions

High Dynamic Range

The camera has High Dynamic Range. This 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.

Intelligent Video Analytics Pro (IVA Pro Buildings)

The camera comes with the IVA Pro Buildings preinstalled and brings reliable deep-learning based detection and tracking of persons and vehicles. Being resistant to false triggers caused by challenging environments with rain, wind (moving













- ► Compact and robust design for discreet use with quick and easy installation and set-up
- ▶ 5 MP for highly detailed images
- ► IVA Pro Buildings brings reliable deep-learning based detection of persons and vehicles
- ► High Dynamic Range (HDR) to see every detail in both bright and dark areas of the scene
- ► Built-in Secure Element with Trusted Platform Module (TPM) to ensure the highest level of security for device access and data transport

trees), snow, hail, and water reflections as well as shadows and bugs, it detects, tracks, and classifies objects.

A smart set of alarm and counter rules alerts you when predefined alarms are triggered, and enables forensic search with high efficiency though recordings. Configuration effort is minimized and made easy by removing the need for calibration.

Intelligent Streaming and H.265 encoding

The camera is designed on the most efficient and powerful H.264 and H.265/HEVC encoding platform. Intelligent streaming is capable of delivering high-quality and high-resolution video with very low network load.

With a doubling of encoding efficiency, H.265 adds even more bit-rate saving on top.

Modular accessories

A full line of modular accessories is available, which allows a consistent design across different cameras and a wide range of installation possibilities.

Available options include wall or pipe mount, a corner mount box, and an in-ceiling mounting kit.

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:

5MP camera with 6 mm lens

DORI	DORI definition	Distance 6 mm	Horizontal width
Detect	25 px/m	97 m	104 m
	(8 px/ft)	(319 ft)	(340 ft)
Observe	63 px/m	39 m	41 m
	(19 px/ft)	(127 ft)	(135 ft)
Recognize	125 px/m	19 m	21 m
	(38 px/ft)	(64 ft)	(68 ft)
Identify	250 px/m	10 m	10 m
	(76 px/ft)	(32 ft)	(34 ft)

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.

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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 cameras have built-in Secure Element (SE) hardware providing main Trusted Platform Module (TPM) functionality to ensure the highest levels of data security and privacy protection. Together with Public Key Infrastructure (PKI) support, superior protection from malicious attacks is guaranteed. The cameras also support RSA encryption key lengths of

up to 4096 bits, ensuring data safety beyond 2030, as well as 802.1x network authentication with EAP/TLS. The advanced certificate handling offers:

- · Bosch origin device certificate pre-installed
- 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

Bosch Remote Portal

With the secure cloud infrastructure, Bosch Remote Portal, you can manage your connected Bosch devices. From the Bosch Remote Portal you can:

- Complete initial configuration of your connected Bosch devices (online or offline).
- Update firmware for single or multiple devices.
- · Manage certificates.
- Monitor the health of your connected Bosch devices.

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.

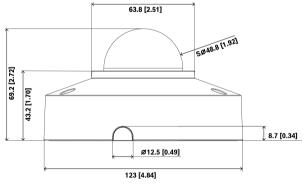
Regulatory information

Standard	Туре
Emission	EN 55032 (Class A)
	CFR 47 FCC part 15 (Class A)
	VCCI (Class A)
	AS/NZS CISPR32 (Class A)
Immunity	EN 55035
	EN 61000-6-1
	EN 61000-6-2
Environmental	IEC 60068-2-1
	IEC 60068-2-2
	IEC 60068-2-6
	IEC 60068-2-14
	IEC 60068-2-27
	EN IEC 63000: 2018
	RoHS EU, 2011/65/EU and 2015/863/EU
	WEEE EU, 2012/19/EU

Standard	Туре
	Packaging EU, 94/62/EU
	N2580-1 (Bosch standard)
	N33.6 (Bosch standard)
Safety	EN IEC 62368-1
	IEC 62368-1
	UL 62368-1
	EN/IEC/UL 60950-22
Ingress protection	EN 60529 (IP66)
Image performance	IEC 62676-5
Color representation	ITU-R BT.709-6
ONVIF conformance	EN 50132-5-2, EN 62676-2
Impact protection	EN 62262 (IK10): 2002
Marks	CE, FCC, UL, WEEE, RCM, VCCI, UKCA, BIS, KCC, SASO, CMIM, Sweden PVC free
Compliance	NDAA compliant

Region	Regulatory compliance/quality marks	
Europe	CE	
Great Britain	UKCA	

Installation/configuration notes



Dimensions in mm (inch)

Parts included

Quantity	Component
1	FLEXIDOME micro 3100i device
1	TR15 key
1	Mounting sticker

Quantity	Component
1	Quick installation guide
1	Safety and security information
3	Installer UX label
1	RJ45 guider

Technical specifications

Electrical

PoE input	PoE IEEE 802.3af / 802.3at Type 1, Class 3
Power consumption PoE (W) (typical – maximum)	3.2 W - 4.5 W

Sensor

Total sensor pixels	5 MP approx.
Sensor type	1/2.7 inch CMOS
Effective pixels (H x V)	2,592 x 1,944

Sensitivity

Color (lx) (sensitivity measured ac-	0.15 lx
cording to IEC 62676 Part 5)	

Dynamic range

High Dynamic Range (HDR) (dB)	120 dB

Optical

Lens focal length (mm)	6 mm
Lens aperture (/F)	1.9 /F
Horizontal field of view (°)	56.1°
Vertical field of view (°)	39.2°

Video functions

Day/night modes	Auto (adjustable switch points); Color; Monochrome
Camera functionality	Mirror image; Rotation 90°; Rotation 180°; Rotation 270° including upright mode; Backlight compensation (BLC); Sharpness enhancement; Intelligent defog; Pixel counter; Saturation; Brightness; Video watermarking; Display stamping; Location

White balance (K)	2,000 K - 10,000 K	Inputs and	
White balance modes	Basic; Standard; Manual mode; Hold mode; 3 automatic modes; Sodium	Ethernet	
	lamp auto	Storage	
Shutter modes	Automatic Electronic Shutter (AES); 1/15,000 max; Default shutter;	Internal storage	
	1/25 [30] min	Memory card s	
Number of privacy masks	8		
Video streaming		Memory card c	
Video compression	H.264 (ISO/IEC 14496-10); M- JPEG; H.265/HEVC	Industrial SD ca	
Streaming	Multiple configurable streams in H.265; H.264 and M-JPEG; Config-		
	urable framerate and bandwidth; Bosch Intelligent Streaming	Data secu	
Camera processing latency	<120ms	Secure elemen	
GOP structure	IP	PKI	
Frame rate (fps)	1 fps – 30 fps	End-to-end end	
Video signal-to-noise ratio (dB)	>55 dB	Encryption	
Video resolution (H x V)	5MP (4:3), 2592 x 1944, to 0.1MP (4:3), 320x240	Local storage e	
	3.8MP (16:9), 2592 x 1456 to 0.1MP (16:9), 512 x 288	Video authentio	
		Firmware prote	
Video content analysis		Platform	
Analysis type	Intelligent Video Analytics Pro: IVA Pro Buildings	Common Produ	
Alarm triggers	Any object; Object in field; Line crossing; Enter / leave field; Loitering; Follow route; Counting; Occupancy; Condition change; Similarity search; Objects stopping or starting	Network	
		Ethernet type	
		System in	
	to move	Protocols / star	
Object classes	Person; Vehicle		
Object filters	Duration; Size; Aspect ratio; Direction; Color		
Tracking modes	Base tracking (2D)		
Number of possible alarm rules (sim-	16		
ultaneously)			

Tamper detection

Additional functionalities

Inputs and outputs

Storage Internal storage Internal storage S-s-pre-alarm-recording Memory card slot Micro SDHC; Micro SDXC (a mencard of Class 6 or higher is recommended for HD recording) Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for icro SDXC card Industrial SD cards Extreme lifetime and health moning support that provides early sovice indication Data security Secure element RSA 4096 bit; AES/CBC 256 bit X.509 certificates End-to-end encryption Full end-to-end with supported Value of the company of th
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Video authentication MD5; SHA-1; SHA-256; Checksu Firmware protection Signed firmware; Secure boot
Firmware protection Signed firmware; Secure boot
Platform
Common Product Platform CPP14.3
Network
Ethernet type 10/100BASE-T
System integration
Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTT RTP/RTCP; IGMP V2/V3; ICMP; ICMPv6; RTSP; FTP; ARP; DHCP APIPA (Auto-IP, link local addres NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); DNS; DNSv6; DDNS (DynDNS.org, selfHOST.d no-ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authenticat
Conformity ONVIF Profile S; ONVIF Profile G ONVIF Profile T; ONVIF Profile M

Mechanical

Pan range (°)	0° - 355°
Tilt range (°)	0° – 75°
Roll range (°)	0° - 355°
Dimensions (Ø x H) (mm)	123 mm x 69.2 mm
Dimensions (Ø x H) (in)	4.84 in x 2.72 in
Weight (g)	480 g
Weight (lb)	1.06 lb
Color	White
Color (RAL)	RAL 9003 Signal white
Bubble material	Clear polycarbonate
Coating type	Clear with anti-scratch coating
Material	Aluminum Alloy housing with dehumidifying membrane and waterproof connection area
Mounting type	Surface-mounted

Environmental

Operating temperature (°C)	-30 °C – 50 °C
Operating temperature (°F)	-22 °F − 122 °F
Cold start temperature (°C)	-20 °C
Cold start temperature (°F)	-4 °F
Storage temperature (°C)	-50 °C − 70 °C
Storage temperature (°F)	-58°F − 158°F
Operating relative humidity, non- condensing (%)	5% - 93%
Operating relative humidity, condensing (%)	5% - 100%
Storage relative humidity (%)	5% - 95%
Impact protection	IK10
IP rating	IP66
Sustainability	PVC free
Country of origin	Thailand

Ordering information

NUE-3703-F06 Micro dome 5MP HDR 56° IP66 IK10

Fixed dome camera for outdoor 30 fps surveillance with H.264/H.265 and IVA Pro Buildings, 5MP, 56° lens, IP66, IK10, NDAA compliant

Order number NUE-3703-F06

Accessories

NDA-3082-PIP Pendant interface plate, 123mm

Pendant interface plate for FLEXIDOME micro 3100i outdoor

Order number NDA-3082-PIP

NDA-5081-PLEN In-ceiling plenum rated kit, 110mm

Plenum-rated in-ceiling mount kit for FLEXIDOME panoramic 5100i and FLEXIDOME micro 3100i Order number **NDA-5081-PLEN**

NDA-5080-CMB Corner mount box 45°, 110mm

Corner mount box for FLEXIDOME panoramic 5100i indoor and FLEXIDOME micro 3100i, 45° tilt angle Order number **NDA-5080-CMB**

NDA-U-WMT Pendant wall mount

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

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

Universal pipe mount for dome cameras, 31 cm, white Order number ${\bf NDA-U-PMT}$

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-WMP Wall mount plate

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

Order number NDA-U-WMP

NDA-U-PMAS Pole mount adapter small

Pole mount adapter small

Universal pole mount adapter, white; small.

Order number NDA-U-PMAS

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

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

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

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**

NDA-U-PMTG Pendant pipe mount, gang boxUniversal pipe mount, compatible with gang box installation for fixed dome cameras only, white

Order number NDA-U-PMTG

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