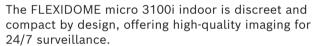


NUV-3703-F06-GOV Micro dome 5MP HDR 56°

FLEXIDOME micro 3100i indoor





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.

Unique corner and plenum-rated ceiling 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 trees), snow, hail, and water reflections as well as shadows and bugs, it detects, tracks, and classifies objects.











5MP

- ► Compact design for discreet indoor 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

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)	(33 ft)	(33 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.

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, Remote Portal, you can manage your connected Bosch devices. From the 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.

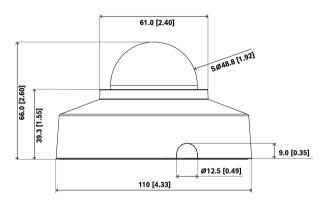
Regulatory information

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
	Packaging EU, 94/62/EU
	N2580-1 (Bosch standard)
	N33.6 (Bosch standard)
Safety	EN IEC 62368-1
	IEC 62368-1
	UL 62368-1
Image performance	IEC 62676-5

Standard	Туре
Color representation	ITU-R BT.709-6
ONVIF conformance	EN 50132-5-2, EN 62676-2
Impact protection	EN 62262 (IKO8): 2002
Marks	CE, FCC, UL, WEEE, RCM, VCCI, UKCA, CMIM
Compliance	NDAA compliant TAA compliant

Region	Regulatory	compliance/quality marks
Europe	CE	
USA	UL CAP	Cybersecurity Assurance Program
Great Britain	UKCA	

Installation/configuration notes



Dimensions in mm (inch)

Parts included

Quantity	Component
1	FLEXIDOME micro 3100i indoor device
1	TR15 key
1	Mounting sticker
1	Quick installation guide
1	Safety and security information
3	Installer UX label

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
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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
White balance modes	Basic; Standard; Manual mode; Hold mode; 3 automatic modes; Sodium lamp auto
Shutter modes	Automatic Electronic Shutter (AES); 1/15,000 max; Default shutter; 1/25 [30] min
Number of privacy masks	8

Video streaming

Video compression	H.264 (ISO/IEC 14496-10); M-
	JPEG; H.265/HEVC

Streaming	Multiple configurable streams in H.265; H.264 and M-JPEG; Config- urable framerate and bandwidth; Bosch Intelligent Streaming	Memory card capacity (GB)	32 GB for Micro SDHC; 2 TB for Micro SDXC card
		Industrial SD cards	Extreme lifetime and health monitor
Camera processing latency			ing support that provides early service indication
GOP structure	IP	Data security	
Frame rate (fps)	1 fps – 30 fps	PKI	X.509 certificates
Video signal-to-noise ratio (dB)	>55 dB	End-to-end encryption	Full end-to-end with supported VMS
Video resolution (H x V)	5MP (4:3), 2592 x 1944, to 0.1MP (4:3), 320x240	Encryption	TLS 1.2; AES 256; AES 128; TLS 1.3
	3.8MP (16:9), 2592 x 1456 to 0.1MP (16:9), 512 x 288	Local storage encryption	XTS-AES
Video content analysis		Video authentication	MD5; SHA-1; SHA-256; Checksum
Analysis type Intelligent Video Analytics Pro: IVA		Platform	
	Pro Buildings	Common Product Platform	CPP14.3
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 to move	Memory (MB)	2048 MB RAM, 8192 MB Flash
		Network	
		Ethernet type	10/100BASE-T
Object classes	Person; Vehicle	System integration	
Object filters	Duration; Size; Aspect ratio; Direction; Color	Protocols / standards	IPv4; IPv6; UDP; TCP; HTTP; HTTPS RTP/RTCP; IGMP V2/V3; ICMP;
Tracking modes	Base tracking (2D)	APIPA (, NTP (SN SNMP (' DDNS (i no-ip.cc	ICMPv6; RTSP; FTP; ARP; DHCP; APIPA (Auto-IP, link local address);
Number of possible alarm rules (simultaneously)	16		NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de,
Additional functionalities	Tamper detection		no-ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP;
Inputs and outputs			SOAP; CHAP; Digest authentication
Ethernet	Shielded RJ45	Conformity	ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; Auto-MDIX; ONVIF Profile M
Analog video output	CVBS: 1.0 Vp-p/75ohm composite, 720 x 480 (NTSC), 720 x 576 (PAL) for installation	 Mechanical	T TOTILE W
Storage		Pan range (°)	0° - 355°
Internal storage	5-s-pre-alarm-recording	Tilt range (°)	0° – 75°
Memory card slot	Micro SDHC; Micro SDXC (a memory card of Class 6 or higher is recommended for HD recording)	Roll range (°)	0° – 355°
		Dimensions (Ø x H) (mm)	110 mm x 66 mm
		Dimensions (Ø x H) (in)	4.33 in x 2.6 in

Weight (g)	230 g	
Weight (lb)	0.51 lb	
Color	White	
Color (RAL)	RAL 9003 Signal white	
Bubble material	Clear polycarbonate	
Coating type	Clear with anti-scratch coating	
Material	Polycarbonate housing	
Mounting type	Surface-mounted	

Environmental

Operating temperature (°C)	0 °C - 40 °C
Operating temperature (°F)	32 °F – 104 °F
Storage temperature (°C)	-30 °C - 70 °C
Storage temperature (°F)	-22 °F – 158 °F
Operating relative humidity, non- condensing (%)	5% - 93%
Operating relative humidity, condensing (%)	5% - 100%
Storage relative humidity (%)	5% - 95%
Impact protection	IK08
Sustainability	PVC free
Country of origin	Taiwan

Ordering information

NUV-3703-F06-GOV Micro dome 5MP HDR 56°

Fixed dome camera for indoor 30 fps surveillance with H.264/H.265 and IVA Pro Buildings, 5MP, 56° lens, IK08, NDAA compliant and TAA compliant Available in North America only Order number **NUV-3703-F06-GOV**

Accessories

NDA-3081-4S 4S adapter plate, 171mm

4S adapter plate for FLEXIDOME micro 3100i indoor Order number **NDA-3081-4S**

NDA-5081-TM Tilt mount 20°, 110mm

Tilt mount (20°) for FLEXIDOME panoramic 5100i indoor and FLEXIDOME micro 3100i indoor Order number **NDA-5081-TM**

NDA-5081-PIP Pendant interface plate, 110mm

Pendant interface plate for the FLEXIDOME micro 3100i indoor and the FLEXIDOME panoramic 5100i families Order number **NDA-5081-PIP**

NDA-3081-PC Paintable cover, FD micro 3100i, 4pcs Paintable cover (4 pieces) for FLEXIDOME micro 3100i

Order number NDA-3081-PC

NDA-3083-LWMT L-shape wall mount for FLEXIDOME 3100i

L-shaped wall mount support for 4S and gangbox for FLEXIDOME indoor 3100i, FLEXIDOME indoor 3100i IR FLEXIDOME outdoor 3100i IR, FLEXIDOME micro 3100i indoor, FLEXIDOME micro 3100i outdoor, FLEXIDOME indoor 5100i, FLEXIDOME indoor 5100i IR, FLEXIDOME outdoor 5100i, FLEXIDOME outdoor 5100i IR Order number NDA-3083-LWMT

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-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-MCBNC-01M Analog cable, BNC connector

0.1 m (0.3 ft) analog cable to BNC (female) for connecting a camera to a coaxial cable Order number **NDA-MCBNC-01M**

NDA-U-WMT Pendant wall mount

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

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

Extension for universal pipe mount, 50 cm, white Order number **NDA-U-PMTE**

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-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-PMAS Pole mount adapter small

Pole mount adapter small

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

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

Universal pipe mount for dome cameras, 31 cm, white Order number **NDA-U-PMT**



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