

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

### FLEXIDOME micro 3100i outdoor



- ▶ 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

The FLEXIDOME micro 3100i outdoor is discreet and compact by design, offering high-quality imaging for 24/7 surveillance.

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 pre-installed 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.

A smart set of alarm and counter rules alerts you when predefined alarms are triggered, and enables forensic search with high efficiency through 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 (8 px/ft)	97 m (319 ft)	104 m (340 ft)
Observe	63 px/m (19 px/ft)	39 m (127 ft)	41 m (135 ft)
Recognize	125 px/m (38 px/ft)	19 m (64 ft)	21 m (68 ft)
Identify	250 px/m (76 px/ft)	10 m (33 ft)	10 m (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](http://ipp.boschsecurity.com)) for more information.

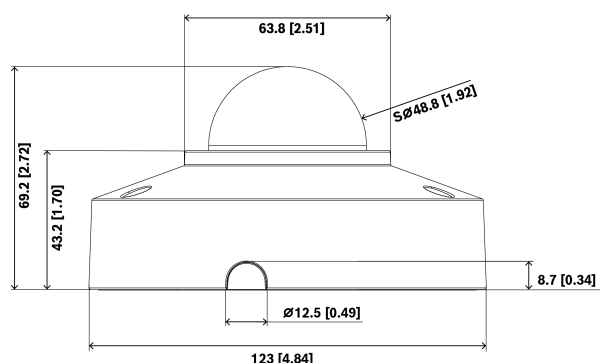
### Regulatory information

Standard	Type
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

Standard	Type
	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, CMIM
Compliance	NDA compliant

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

### Installation/configuration notes



Dimensions in mm (inch)

### Parts included

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

Quantity	Component
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 according to IEC 62676 Part 5)	0.15 lx
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#### 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 up-right 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; Configurable framerate and bandwidth; Bosch Intelligent Streaming
Camera processing latency	<120ms
GOP structure	IP
Frame rate (fps)	1 fps – 30 fps
Video signal-to-noise ratio (dB)	>55 dB
Video resolution (H x V)	5MP (4:3), 2592 x 1944, to 0.1MP (4:3), 320x240 3.8MP (16:9), 2592 x 1456 to 0.1MP (16:9), 512 x 288

### Video content analysis

Analysis type	Intelligent Video Analytics Pro: IVA Pro Buildings
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
Object classes	Person; Vehicle
Object filters	Duration; Size; Aspect ratio; Direction; Color
Tracking modes	Base tracking (2D)
Number of possible alarm rules (simultaneously)	16
Additional functionalities	Tamper detection

### Inputs and outputs

Ethernet	Shielded RJ45
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Analog video output	CVBS: 1.0 Vp-p/75ohm composite, 720 x 480 (NTSC), 720 x 576 (PAL) for installation
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### Storage

Internal storage	5-s-pre-alarm-recording
Memory card slot	Micro SDHC; Micro SDXC (a memory card of Class 6 or higher is recommended for HD recording)
Memory card capacity (GB)	32 GB for Micro SDHC; 2 TB for Micro SDXC card
Industrial SD cards	Extreme lifetime and health monitoring support that provides early service indication

### Data security

Secure element	RSA 4096 bit; AES/CBC 256 bit
PKI	X.509 certificates
End-to-end encryption	Full end-to-end with supported VMS
Encryption	TLS 1.2; AES 256; AES 128; TLS 1.3
Local storage encryption	XTS-AES
Video authentication	MD5; SHA-1; SHA-256; Checksum
Firmware protection	Signed firmware; Secure boot

### Platform

Common Product Platform	CPP14.3
Memory (MB)	2048 MB RAM, 8192 MB Flash

### Network

Ethernet type	10/100BASE-T
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### System integration

Protocols / standards	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, MIBII); SNMP (V3, MIBII); DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no-ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication
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Conformity	ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; Auto-MDIX; ONVIF Profile M
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### 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 dehu- midifying 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, con- densing (%)	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-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-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-U-CBBS SMB, Dinion 3100i IR

Conduit back box for DINION 3100i IR and FLEXIDOME micro 3100i outdoor

Order number **NDA-U-CBBS**

#### 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**

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**NDA-U-PMAS Pole mount adapter small**

Pole mount adapter small

Universal pole mount adapter, white; small.

Order number **NDA-U-PMAS**

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**NDA-U-PSMB Pendant wall/ceiling mount SMB**

Surface mount box (SMB) for wall mount or pipe  
mount.

Order number **NDA-U-PSMB**

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**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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