

# FLEXIDOME IP starlight 7000 VR



This camera provides clear images 24/7 – even at night or under low-light conditions.

The exceptional starlight sensitivity enables this camera to work with a minimum of ambient light. The extended dynamic mode provides detailed images in scenes with challenging lighting.

The camera is available in 1080p or 720p resolution versions and provides up to 60 images per second. The aesthetic vandal-resistant housing makes the camera suitable for indoor or outdoor installation.

#### **Functions**

# **Exceptional low-light performance**

The latest sensor technology combined with the sophisticated noise suppression results in an exceptional sensitivity in color. The low-light performance is so good that the camera continues to provide excellent color performance even with a minimum of ambient light.

#### **Fast performance**

The 60 images-per-second mode provides for optimum performance in fast action scenes and is particularly suitable for casino and banking applications.

#### **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.











- ► Excellent low-light performance
- ► Built-in Intelligent Video Analytics to trigger relevant alerts and quickly retrieve data
- ► Intelligent Dynamic Noise Reduction reduces bandwidth and storage requirements by up to 50%
- ► Extended Dynamic Range mode to see details in bright and dark areas simultaneously
- ► Easy to install with auto zoom/focus SR lens, wizard and pre-configured modes

The actual dynamic range of the camera is measured using Opto-Electronic Conversion Function (OECF) analysis according to IEC 62676 Part 5. This method is used to provide a standard result which can be used to compare different cameras.

# **Content Based Imaging Technology**

Content Based Imaging Technology (CBIT) is used to radically improve image quality in all lighting conditions and to identify areas for enhanced processing. The camera examines the scene using Intelligent Video Analytics and provides feedback to re-tune the image processing. This provides better detail in the areas that matter and better all-round performance. With IVA, the Intelligent Auto Exposure technology, for example, allows you to view moving objects in bright and dark areas of a scene.

# **Intelligent Video Analytics**

The built-in video analytics is both robust and intelligent. The Intelligence-at-the-Edge concept now delivers even more powerful features:

- · Simple calibration
- False alarm reduction
- · Extended range identification
- · Crowd and queue management
- · Density and flow counting

The mission critical video analytics reliably detects, tracks, and analyzes objects, and alerts you when predefined alarms are triggered. A smart set of alarm rules, together with object filters and tracking modes, makes complex tasks easy.

The system is also extremely robust and is able to reduce false alarms, for example from foliage or shaking objects, even in harsh weather conditions. 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. Calibration is quick and easy – just enter the height of the camera. The internal gyro/accelerometer sensor provides the rest of the information to precisely calibrate the video analytics.

# Intelligent Dynamic Noise Reduction reduces bandwidth and storage requirements

The camera uses Intelligent Dynamic Noise Reduction which actively analyzes the contents of a scene and reduces noise artifacts accordingly.

The low-noise image and the efficient H.264 compression technology provide clear images while reducing bandwidth and storage by up to 50% compared to other H.264 cameras. This results in reduced-bandwidth streams that still retain a high image quality and smooth motion. The camera provides the most usable image possible by cleverly optimizing the detail-to-bandwidth ratio.

#### Area-based encoding

Area-based encoding is another feature which reduces bandwidth. Compression parameters for up to eight user-definable regions can be set. This allows uninteresting regions to be highly compressed, leaving more bandwidth for important parts of the scene.

### Bitrate optimized profile

The average typical optimized bandwidth in kbits/s for various image rates is shown in the table.

IPS	1080p	720p	480p
60	1900	1400	722
30	1600	1200	600
15	1274	955	478
12	1169	877	438
5	757	568	284
2	326	245	122

#### Multiple streams

The innovative multi-streaming feature delivers various H.264 streams together with an M-JPEG stream. These streams facilitate bandwidth-efficient viewing and recording as well as integration with third-party video management systems.

The camera can run multiple independent streams that allows to set a different resolution and frame rate on the first and second stream. The user can also choose to use a copy of the first stream.

The third stream uses the I-frames of the first stream for recording; the fourth stream shows a JPEG image at a maximum of 10 Mbit/s.

#### Regions of interest and E-PTZ

Regions of Interest (ROI) can be user defined. The remote E-PTZ (Electronic Pan, Tilt and Zoom) controls allow you to select specific areas of the parent image. These regions produce separate streams for remote viewing and recording. These streams, together with the main stream, allow the operator to separately monitor the most interesting part of a scene while still retaining situational awareness.

Intelligent Tracking can follow objects within the defined regions of interest. Intelligent Tracking can autonomously detect and track moving objects or the user can click on an object which the tracker will then follow.

#### Storage management

Recording management can be controlled by the Bosch Video Recording Manager (Video Recording Manager) or the camera can use iSCSI targets directly without any recording software.

#### **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.

#### Cloud-based services

The camera supports time-based or alarm-based JPEG posting to four different accounts. These accounts can address FTP servers or cloud-based storage facilities (for example, Dropbox). Video clips or JPEG images can also be exported to these accounts.

Alarms can be set up to trigger an e-mail or SMS

Alarms can be set up to trigger an e-mail or SMS notification so you are always aware of abnormal events.

#### **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.

To increase system reliability, the camera can be simultaneously connected to both PoE and +12 VDC supplies. If one power source fails, the other source takes over without a reboot so providing power redundancy.

The automatic zoom/focus lens wizard makes it easy for an installer to accurately zoom and focus the camera for both day and night operation. The wizard is activated from the PC or from the on-board camera push button making it easy to choose the workflow that suits best.

The AVF (Automatic Varifocal) feature means that the zoom can be changed without opening the camera. The automatic motorized zoom/focus adjustment with 1:1 pixel mapping ensures the camera is always accurately focused.

#### **Automatic image rotation**

The integrated gyro/accelerometer sensor automatically corrects the image orientation in steps of 90° if the camera is mounted at right angles or upside down. The sensor image can also be rotated manually through steps of 90°.

To efficiently capture details in long hallways without loss of resolution, mount the camera at right angles. The image is displayed upright at full resolution on your monitor.

#### Scene modes

The camera has a very intuitive user interface that allows fast and easy configuration. Nine configurable modes are provided with the best settings for a variety of applications. Different scene modes can be selected for day or night situations.

#### **Hybrid operation**

A surge-protected analog video output allows full hybrid operation. This means that high resolution IP video streaming and an analog video output are available simultaneously. The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system.

# Aesthetic vandal resistant design

The compact aesthetic design is suitable for installations where housing size and appearance are important. The cast-aluminum housing, polycarbonate window, and hardened inner liner can withstand the equivalent of 55 kg (120 lbs) of force (IK10). The camera is also protected against water and dust. Using the proprietary pan/tilt/rotation mechanism, installers can select the exact field of view. Mounting options are numerous, including surface, wall, corner, and suspended-ceiling mounting.

# True day/night switching

The camera is a true day/night camera with a mechanical filter for vivid daytime color and exceptional night-time imaging while maintaining sharp focus under all lighting conditions. The filter can be switched remotely, or automatically via a light level sensor or contact input.

### **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

#### **Complete viewing software**

There are many ways to access the camera's features: using a web browser, with the Bosch Video Management System, with the free-of-charge Bosch Video Client or Video Security Client, with the video security mobile app, or via third-party software.

#### Video security app

The Bosch video security mobile app has been developed to enable Anywhere access to HD surveillance images allowing you to view live images from any location. The app is designed to give you complete control of all your cameras, from panning and tilting to zoom and focus functions. It's like taking your control room with you.

This app, together with the separately available Bosch transcoder, will allow you to fully utilize our dynamic transcoding features so you can play back images even over low-bandwidth connections.

#### **System integration**

The camera conforms to the ONVIF Profile S specifications. 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**

Standards	Туре
Emission	EN 55032:2012 /AC2013 class B
	EN 50121-4:2016
	FCC: 47CFR15, class B (2015-10-1)
Immunity	EN 50130-4:2011 /A12014 (PoE, +12VDC)*
	EN 50121-4:2016
Environmental	EN 50130-5:2011 Class IV
Safety	EN 62368-1:2014/AC:2015
	EN 60950-1:2006 /A11:2009 /A1:2010 / A12:2011 /A2:2013

Standards	Туре
	UL 62368-1, Ed. 2, Dec 1st, 2014
	UL 60950-1, Ed. 2, October 14, 2014
	CAN/CSA-C22.2 No. 62368-1
	CAN/CSA-C22.2 No. 60950-1
HD	SMPTE 296M-2001 (Resolution: 1280x720)
	SMPTE 274M-2008 (Resolution: 1920x1080)
Color representation	ITU-R BT.709-6
ONVIF conformance	EN 50132-5-2:2011/AC:2012
	EN 62676-2-3:2014

\* Chapters 7 and 8 (mains voltage supply requirement) are not applicable to the camera.

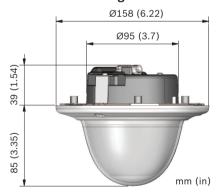
However, if the system in which this camera is used needs to comply with this standard, then any power supplies used must comply with this standard.

Marks	CE, cULus, WEEE, RCM, EAC, CMIM, and China
	RoHS

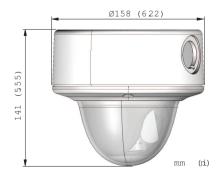
Region	Regulatory compliance/quality marks	
Europe	CE	
USA	UL	ST-VS 2016-E-045

# Installation/configuration notes

# **Dimensions flush mounting**



# **Dimensions surface mounting**



Technical specif	ications	
Power		
Input voltage	Power-over-Ethernet (48 VDC nominal) and/or +12 VDC ±10% (auxiliary)	
PoE IEEE standard	802.3af (802.3at Type 1)	
	Power level: Class 3	
Power Consumption	7.2 W max.	
Current draw (PoE)	200 mA max.	
Current draw (12 VDC)	600 mA max.	
Sensor (1080p version	)	
Sensor type	1/2.8-inch CMOS	
Effective pixels	1920 (H) x 1080 (V); 2MP (approx.)	
Sensor (720p version)		
Sensor type	1/2.8-inch CMOS	
Effective pixels	1280 (H) x 720 (V)	
Sensitivity		
Low-light technology	starlight	
Measuring method	IEC 62676 Part 5 (1/25, F1.2 / F1.6)	
Color	0.0104 lx (3-9 mm SR lens); 0.0179 lx (10-23 mm SR lens)	
Mono	0.0039 lx (3-9 mm SR lens); 0.0066 lx (10-23 mm SR lens)	
Dynamic range - HDR mode		
High Dynamic Range (10-bit, 3x exposure)	120 dB WDR	
Measured according to IEC 62676 Part 5	108 dB WDR	
Video streaming		
Video compression	H.264 (MP); M-JPEG	
Streaming	Multiple configurable streams in H.264 and M-	

JPEG, configurable frame rate and bandwidth.

Regions of Interest (ROI)

<67 ms (max. average at 1080p60)

Camera processing

latency

GOP structure IP, IBP, IBBP Encoding interval 1 to 50 [60] ips  Video resolution (H x V)  1080p HD 1920 x 1080 (1080p version only)  Upright mode 1080p 1080 x 1920 (1080p version only)  1.3 MP (5:4) 1280 x 720  Upright mode 720p 720 x 1280  D1 4:3 (cropped) 704 x 480  432p SD 768 x 432  288p SD 512 x 288  Camera installation  Application variant Starlight mode (default) / HDR - extended dynamic mode  Base frame rate 25/30/50/60 fps (PAL/NTSC for analog output)  Mirror image On / Off Flip image On / Off  Rotate 0° / 90° / 180° / 270°  Camera LED Enable/disable  Analog output Off, 4:3 letterbox, 4:3 crop, 16:9  Positioning Coordinates / Mounting height  Lens wizard Autofocus, remote zoom  Video functions - color  Adjustable picture settings  White Balance 2500 to 10000K, 4 automatic modes (Basic, Standard, Sodium lamp, Dominant color), Manual mode and Hold mode  Video functions - ALC  ALC level Adjustable from peak to average	Video streaming			
Video resolution (H x V)  1080p HD		IP, IBP, IBBP		
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T20p HD  1280 x 720  Upright mode 720p  720 x 1280  D1 4:3 (cropped)  704 x 480  432p SD  768 x 432  288p SD  512 x 288  Camera installation  Application variant  Starlight mode (default) / HDR - extended dynamic mode  Base frame rate  25/30/50/60 fps (PAL/NTSC for analog output)  Mirror image  On / Off  Rotate  0° / 90° / 180° / 270°  Camera LED  Enable/disable  Analog output  Off, 4:3 letterbox, 4:3 crop, 16:9  Positioning  Coordinates / Mounting height  Lens wizard  Autofocus, remote zoom  Video functions - color  Adjustable picture settings  White Balance  2500 to 10000K, 4 automatic modes (Basic, Standard, Sodium lamp, Dominant color), Manual mode and Hold mode  Video functions - ALC  ALC level  Adjustable	Upright mode 1080p	1080 x 1920 (1080p version only)		
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Standard, Sodium lamp, Dominant color), Manual mode and Hold mode  Video functions - ALC  ALC level Adjustable		Contrast, Saturation, Brightness		
ALC level Adjustable	White Balance	Standard, Sodium lamp, Dominant color),		
	Video functions - ALC			
Saturation Adjustable from peak to average	ALC level	Adjustable		
	Saturation	Adjustable from peak to average		

Video functions - ALC		
Shutter	Automatic Electronic Shutter (AES); Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter	
Day/Night	Auto (adjustable switch points), Color, Monochrome	
Video functions - enhan	ce	
Sharpness	Sharpness enhancement level selectable	
Backlight compensation	On / off / Intelligent Auto Exposure (IAE)	
Contrast enhancement	On/off	
Signal-to-noise ratio (SNR)	>55 dB	
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	Intelligent Video Analytics	
Configurations	Silent VCA / Profile 1/2 / 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 Audio detection (if microphone used)	
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 / accelerometer data and camera height
Tamper detection	Maskable
Additional functions	
Scene modes	9 default modes with scheduler:
	Indoor, Outdoor, Traffic, Night Optimized, Intelligent AE, Vibrant, Low bitrate, Sports & Gaming, Retail
Privacy Masking	Eight independent areas, fully programmable
Video authentication	Off / Watermark / MD5 / SHA-1 / SHA-256
Display stamping	Name; Logo; Time; Alarm message
Pixel counter	Selectable area
Camera rotation	Automatic detection with manual override (90°
Local storage	
Internal RAM	5 s pre-alarm recording
Memory card slot	Supports up to 32 GB microSDHC / 2 TB microSDXC card. (A memory card of Class 6 or higher is recommended for HD recording)
Recording	Continuous recording, ring recording, alarm/ events/schedule recording
Input/output	
Analog Video out	CVBS (PAL/NTSC), 1 Vpp, BNC, 75 Ohm (surg protected)
Audio signal line in	10 kOhm typical;, 1 Vrms max
Audio signal line out	1 Vrms; 1.5 kOhm typical
Alarm input (x2)	+5 VDC to +40 VDC
activation voltage	(+3.3 VDC with DC-coupled 22 kOhm pull-up resistor)

Input/output	
Alarm output voltage	30 VAC or +40 VDC Maximum 0.5 A continuous, 10VA
Ethernet	RJ45
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
Software	
Unit discovery	IP Helper
Unit configuration	Via web browser or Configuration Manager
Firmware update	Remotely programmable
Software viewing	Web browser; Video Security Client; Video Security App; BVMS; Bosch Video Client; or third party software
Latest firmware and software	http:// downloadstore.boschsecurity.com/
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, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox™, CHAP, digest authentication
Encryption	TLS 1.2, SSL, DES, 3DES
Ethernet	10/100 Base-T, auto-sensing, half/full duplex
Connectivity	Auto-MDIX

Network	ONNIE D. CL. O.
Interoperability	ONVIF Profile S; GB/T 28181
Optical	
Lens	3 to 9 mm Automatic Varifocal (AVF) SR lens (IR corrected) - or - 10 to 23 mm Automatic Varifocal (AVF) SR lens (IR corrected)
Lens mount	Board mounted
Adjustment	Motorized zoom/focus
Iris control	Automatic iris control
Viewing angle (3 to 9 mm, F1.2)	Wide: 117° x 59° (H x V) Tele: 37° x 21° (H x V )
Viewing angle (10 to 23 mm, F1.6)	Wide: 32° x 18° (H x V) Tele: 14.4° x 8.1° (H x V )
Mechanical	
Dimensions (D x H)	158 x 124 mm (6.22 x 4.89 in)
Weight	0.85 kg (1.87 lb) 1.28 kg (2.82 lb) with SMB
Mounting	Flush mount or surface mount
Color	White (RAL9010) trim ring with black inner line
Adjustment range	360° pan, 90° tilt, ±90° twist
Dome bubble	Polycarbonate, clear with UV blocking anti- scratch coating
Trim ring	Aluminum
Environmental	
Operating temperature	-30 °C to +50 °C (-22 °F to +122 °F) for continuous operation; -34 °C to +74 °C (-30 °F to +165 °F) according to NEMA TS 2-2003 (R2008), para 2.1.5.1 using fig. 2.1 test profile
Cold start temperature	-20 °C (-4 °F)
Storage temperature	-50 °C to +70 °C (-58 °F to +158 °F)
Operating humidity	5% to 93% relative humidity (non-condensing) 5% to 100% relative humidity (condensing)

Environmental	
Storage humidity	Up to 98% relative humidity
Impact protection	IK10
Water/dust protection	IP 66 and NEMA Type 4X (with appropriate installation standards)

# **Ordering information**

#### NIN-73013-A3A Dome 1MP HDR 3-9mm auto IP66

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

720p

3 to 9 mm SR lens

Order number NIN-73013-A3A | F.01U.314.808

# NIN-73013-A3AS Dome 1MP HDR 3-9mm auto IP66 surface

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

720p

3 to 9 mm SR lens

Surface mount box

Order number NIN-73013-A3AS | F.01U.314.810

#### NIN-73013-A10A Dome 1MP HDR 10-23mm auto IP66

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

720p

10 to 23 mm SR lens

Order number NIN-73013-A10A | F.01U.314.812

# NIN-73013-A10AS Dome 1MP HDR 10-23mm auto IP66 surface

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

720p

10 to 23 mm SR lens

Surface mount box

Order number NIN-73013-A10AS | F.01U.314.814

# NIN-73023-A3A Dome 2MP HDR 3-9mm auto IP66

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

1080p

3 to 9 mm SR lens

Order number NIN-73023-A3A | F.01U.314.816

# NIN-73023-A3AS Dome 2MP HDR 3-9mm auto IP66 surface

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

1080p

3 to 9 mm SR lens

Surface mount box

Order number NIN-73023-A3AS | F.01U.314.818

#### NIN-73023-A10A Dome 2MP HDR 10-23mm auto IP66

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

1080p

10 to 23 mm SR lens

Order number NIN-73023-A10A | F.01U.314.820

# NIN-73023-A10AS Dome 2MP HDR 10-23mm auto IP66

High-performance IP dome camera for IVA-optimized, mission critical, HD surveillance in low light and with hybrid IP/analog operation.

1080p

10 to 23 mm SR lens

Surface mount box

Order number NIN-73023-A10AS | F.01U.314.851

#### **Accessories**

#### **VDA-WMT-DOME Dome Wall Mount**

Sturdy wall mount bracket for dome cameras (Ø158) Order number VDA-WMT-DOME | F.01U.167.450

#### VDA-CMT-PTZDOME Corner mount adapter

Corner (270°) mount adapter for use with the appropriate wall mount

Order number VDA-CMT-PTZDOME | F.01U.288.068

### **VDA-CMT-DOME Corner mount for AUTODOME** camera, 158mm

Sturdy bracket for mounting dome cameras in a 90°

Order number VDA-CMT-DOME | F.01U.167.533

### LTC 9213/01 Pole mount adapter for LTC9210,9212,9215

Flexible pole mount adapter for camera mounts (use together with the appropriate wall mount bracket). Max. 9 kg (20 lb); 3 to 15 inch diameter pole; stainless steel straps

Order number LTC 9213/01 | F.01U.009.291

#### VDA-PLEN-DOME In-ceiling housing for plenum, **FLEXIDOME**

In-ceiling housing for plenums kit for several series of Bosch dome cameras

Order number VDA-PLEN-DOME | F.01U.275.196

#### VGA-IC-SP Suspended ceiling support kit,7"

Suspended ceiling support kit for dome cameras. Aperture Ø177 mm (Ø7 in). Maximum supported weight 11.3 kg (25 lb).

Order number VGA-IC-SP | F.01U.245.271

#### VDA-455CBL Clear dome bubble for FLEXIDOME series

Clear replacement bubble for FLEXIDOME cameras.

Order number VDA-455CBL | F.01U.090.269

# VDA-455TBL Bubble, tinted, for FLEXIDOME

Tinted replacement bubble for dome camera. Order number VDA-455TBL | F.01U.090.268

#### Represented by:

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Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany www.boschsecurity.com

# 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 injectors 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-1220-60 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 (nonpolarized).

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

#### S1460 Service monitor cable, 2.5mm jack to BNC

2.5 mm jack to BNC video connector cable. 1 m Order number **\$1460 | F.01U.500.418** 

# VDA-455SMB-IP Surface mount box for dome camera

Surface Mount Box for dome cameras; IP version Order number VDA-455SMB-IP | F.01U.263.391

# VDA-PMT-DOME Pipe mount bracket for FLEXIDOME,

Sturdy pipe mount bracket for dome cameras (Ø158

Order number VDA-PMT-DOME | F.01U.275.155 F.01U.167.532

#### NIN-DMY Dummy camera, FLEXIDOME VR family

FLEXIDOME VR family dummy camera Order number NIN-DMY | F.01U.288.449

# **Services**

# EWE-FD7STA-IW 12mths wrty ext FD IP starlight 7000

12 months warranty extension

Order number EWE-FD7STA-IW | F.01U.346.289

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