

## **FLEXIDOME IP starlight 6000 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 frames per second mode provides for optimum performance in fast action scenes that ensures no critical data is lost.

#### **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 Essential Video Analytics to trigger relevant alerts and quickly retrieve data
- ► Intelligent Streaming and Intelligent Dynamic Noise Reduction for low network strains and storage costs
- ► 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.

## **Essential Video Analytics**

The built-in video analysis reinforces the Intelligenceat-the-Edge concept and now delivers even more powerful features. Essential Video Analytics is ideal for use in controlled environments with limited detection ranges.

The system reliably detects, tracks, and analyzes objects, and alerts you when predefined alarms are triggered. A smart set of alarm rules makes complex tasks easy and reduces false alarms to a minimum. 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 Auto Exposure**

Fluctuations in backlight and front light can ruin your images. To achieve the perfect picture in every situation, Intelligent Auto Exposure automatically adjusts the exposure of the camera. It offers superb

front light compensation and incredible backlight compensation by automatically adapting to changing light conditions.

## **Intelligent Dynamic Noise Reduction**

Quiet scenes with little or no movement require a lower bitrate. By intelligently distinguishing between noise and relevant information, Intelligent Dynamic Noise Reduction reduces bitrate by up to 50%. Because noise is reduced at the source during image capture, the lower bitrate does not compromise on video quality.

Intelligent Dynamic Noise Reduction adjusts spatial and temporal filtering (3DNR) based on intelligent analysis of the scene content. Motion compensated temporal filtering (MCTF) reduces motion blur normally associated with standard temporal filtering. This maintains image quality of fast moving objects while still optimizing bitrate.

With Intelligent Dynamic Noise Reduction, our focus is to significantly reduce storage costs, and lessen network strain by only using bandwidth when needed.

## 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

## 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.

### 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.

## **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.

## 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.

## 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.

## **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.

## **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.

## 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 are necessary to ensure the highest level of security for device access and data transport. On initial setup, the camera is only accessible over secure channels. You must set a service-level password in order to access camera functions. Web browser and viewing client access can be protected using HTTPS or other secure protocols that support state-of-the-art TLS 1.2 protocol with updated cipher suites including AES encryption with 256 bit keys. No software can be installed in the camera, and 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 protocol. Superior protection from malicious attacks is guaranteed by the Embedded Login Firewall, onboard 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

## **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 and ONVIF conformance

The camera conforms to the ONVIF Profile S , ONVIF Profile G , and ONVIF Profile T specifications. Third-party integrators can easily access the internal feature set of the device for integration into large projects. Visit the Bosch Integration Partner Program (IPP) website (ipp.boschsecurity.com) for more information.

## **Certifications and approvals**

Туре
EN 55032:2012 /AC2013 class B
EN 50121-4:2016
FCC: 47CFR15, class B (2015-10-1)
EN 50130-4:2011 /A12014 (PoE, +12VDC)*
EN 50121-4:2016
EN 50130-5:2011 Class IV
EN 62368-1:2014/AC:2015
EN 60950-1:2006 /A11:2009 /A1:2010 / A12:2011 /A2:2013
UL 62368-1, Ed. 2, Dec 1st, 2014

Standards	Туре
	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

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

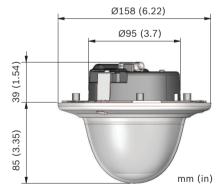
However, if the system in which this camera is used needs to comply with this standard, then any power supplies used must comply with this standard.

Marks	CE, cULus, WEEE, RCM, EAC, CMIM, and China RoHS
	110110

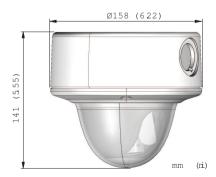
Region	Regulatory	compliance/quality marks
Europe	CE	
USA	UL	ST-VS 2016-E-045

## Installation/configuration notes

## **Dimensions flush mounting**



## **Dimensions surface mounting**



Technical specif	ications	
Power (12 VDC/PoE version)		
Input voltage	Power-over-Ethernet (48 VDC nominal) and/or +12 VDC ±10% (auxiliary)	
PoE	IEEE 802.3af / 802.3at Type 1, Class 3	
Power Consumption	7.2 W max.	
Current consumption	600 mA max. (12 VDC) 200 mA max. (PoE 48 VDC)	
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)	
Color	0.0104 lx	
Mono	0.0039 lx	
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		

H.264 (MP); M-JPEG
Multiple configurable streams in H.264 and M- JPEG, configurable frame rate and bandwidth. Regions of Interest (ROI)
<67 ms (max. average at 1080p60)
IP, IBP, IBBP
1 to 50 [60] ips

Video streaming		
Encoder regions	Up to eight areas with encoder quality settings per area	
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 1024 (1080p version only)	
720p 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	
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	Contrast, Saturation, Brightness	
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	
	Adjustable from poek to everege	
Saturation	Adjustable from peak to average	

Video functions - ALC		
	Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter	
Day/Night	Auto (adjustable switch points), Color, Monochrome	
Video functions - enhan	ice	
Sharpness	Sharpness enhancement level selectable	
Backlight compensation	On/off/Intelligent Auto Exposure (BLC)	
Contrast enhancement	On/off	
Signal-to-noise ratio (SNR)	>55 dB	
Noise reduction	Intelligent Dynamic Noise Reduction Intelligent Streaming	
Intelligent defog	Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)	
Video content analysis		
Analysis type	Essential Video Analytics	
Features	Rule based alarms and tracking Line crossing Enter /leave field Follow route Loitering Idle / removed object People counting Crowd density estimation 3D tracking Audio detection (if microphone used)	
Calibration / Geolocation	Automatic based on gyro / accelerometer data and camera height	
Tamper detection	Maskable	
Additional functions		
Scene modes	9 default modes with scheduler	
Privacy Masking	Eight independent areas, fully programmable	
Video authentication	Off / Watermark / MD5 / SHA-1 / SHA-256	
Display stamping	Name; Logo; Time; Alarm message	

Internal RAM  5 s pre-alarm recording  Memory card slot  Supports up to 32 GB microSDHC / 2 TB microSDXC card.  Extreme lifetime and health monitoring support that provides early service indication.  Recommended: Industrial microSD cards with health monitoring  Recording  Continuous recording, ring recording.  Alarm/events/schedule recording	ditional functions	
Internal RAM  5 s pre-alarm recording  Memory card slot  Supports up to 32 GB microSDHC / 2 TB microSDXC card.  Extreme lifetime and health monitoring support that provides early service indication.  Recommended: Industrial microSD cards with health monitoring  Recording  Continuous recording, ring recording.  Alarm/events/schedule recording  Input/output  Analog Video out  CVBS (PAL/NTSC), 1 Vpp, BNC, 75 Ohm (surprotected)	el counter	Selectable area
Internal RAM  5 s pre-alarm recording  Supports up to 32 GB microSDHC / 2 TB microSDXC card. Extreme lifetime and health monitoring support that provides early service indication. Recommended: Industrial microSD cards with health monitoring  Recording  Continuous recording, ring recording. Alarm/events/schedule recording  Input/output  Analog Video out  CVBS (PAL/NTSC), 1 Vpp, BNC, 75 Ohm (surprotected)	mera rotation	Automatic detection with manual override (90°)
Memory card slot  Supports up to 32 GB microSDHC / 2 TB microSDXC card.  Extreme lifetime and health monitoring support that provides early service indication.  Recommended: Industrial microSD cards with health monitoring  Recording  Continuous recording, ring recording.  Alarm/events/schedule recording  Input/output  Analog Video out  CVBS (PAL/NTSC), 1 Vpp, BNC, 75 Ohm (surprotected)	cal storage	
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Analog Video out CVBS (PAL/NTSC), 1 Vpp, BNC, 75 Ohm (sur protected)		
protected)	out/output	
Audio line in 10 kOhm typical;, 1 Vrms max	-	CVBS (PAL/NTSC), 1 Vpp, BNC, 75 Ohm (surge protected)
	dio line in	10 kOhm typical;, 1 Vrms max
Audio line out 1 Vrms; 1.5 kOhm typical	dio line out	1 Vrms; 1.5 kOhm typical
Alarm input 2 inputs	ırm input	2 inputs
Alarm input (x2) +5 VDC to +40 VDC (+3.3 VDC with DC-coupled 22 kOhm pull-up resistor)	tivation voltage	(+3.3 VDC with DC-coupled 22 kOhm pull-up
Alarm output 1 output	ırm output	1 output
Alarm output voltage 30 VAC or +40 VDC  Maximum 0.5 A continuous, 10VA		
Ethernet RJ45	nernet	RJ45
Audio streaming	dio 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		L16, 16 kHz sampling rate AAC-LC, 48 kbps at 16 kHz sampling rate
Signal-to-Noise Ratio >50 dB	gnal-to-Noise Ratio	>50 dB

Audio streaming		
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, 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	Full end-to-end encryption with supported VMS Network: TLS1.0/1.2, AES128, AES256 Local storage: XTS-AES	
Ethernet	10/100 Base-T, auto-sensing, half/full duplex	
Connectivity	Auto-MDIX	
Interoperability	ONVIF Profile S, ONVIF Profile G, ONVIF Profile T GB/T 28181	
Optical		
Lens	3 to 9 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)	
Environmental		
Operating temperature	-30 °C to +55 °C (-22 °F to +131 °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)	
Storage humidity	Up to 98% relative humidity	
Impact protection	IK10	

Environmental		
Water/dust protection	IP 66 and NEMA Type 4X (with appropriate installation standards)	
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 liner	
Adjustment range	360° pan, 90° tilt, ±90° twist	
Dome bubble	Polycarbonate, clear with UV blocking anti- scratch coating	
Trim ring	Aluminum	

## **Ordering information**

## NIN-63013-A3 Dome 1MP HDR 3-9mm auto IP66

High-performance IP dome camera for intelligent HD surveillance in low light and with hybrid IP/analog operation.

720p

Order number NIN-63013-A3 | F.01U.314.807

# NIN-63013-A3S Dome 1MP HDR 3-9mm auto IP66 surface

High-performance IP dome camera for intelligent HD surveillance in low light and with hybrid IP/analog operation.

720p

Surface mount box

Order number NIN-63013-A3S | F.01U.314.809

### NIN-63023-A3 Dome 2MP HDR 3-9mm auto IP66

High-performance IP dome camera for intelligent HD surveillance in low light and with hybrid IP/analog operation.

1080p

Order number NIN-63023-A3 | F.01U.314.815

# NIN-63023-A3S Dome 2MP HDR 3-9mm auto IP66 surface

High-performance IP dome camera for intelligent HD surveillance in low light and with hybrid IP/analog operation.

1080p

Surface mount box

Order number NIN-63023-A3S | F.01U.314.817

#### **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  $90^{\circ}$  corner.

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-455TBL Bubble, tinted, for FLEXIDOME

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

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

Clear replacement bubble for FLEXIDOME cameras.
Order number **VDA-455CBL** | **F.01U.090.269** 

## 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** 

## 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

# VDA-PMT-DOME Pipe mount bracket for FLEXIDOME, 158mm

Sturdy pipe mount bracket for dome cameras (Ø158 mm)

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

# 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 (non-polarized).

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

## NIN-DMY Dummy camera, FLEXIDOME VR family

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

#### **Services**

## EWE-FD6STA-IW 12mths wrty ext FD Starlight 6000IP

12 months warranty extension

Order number EWE-FD6STA-IW | F.01U.346.341

#### Represented by:

Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands Phone: + 31 40 2577 284 emea.securitysystems@bosch.com emea.boschsecurity.com

Germany: Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany www.boschsecurity.com North America: Bosch Security Systems, LLC 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 585 223 9180 onlinehelp@us.bosch.com www.boschsecurity.us Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2809
par.securitysystems@bosch.com
www.boschsecurity.asia