

# FLEXIDOME IP 7000 VR

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Invented for life



HD Onvif



- ▶ Aesthetic vandal-resistant enclosure, suitable for indoor or outdoor applications
- ▶ Content-based scene analysis optimizes the image processing
- ▶ Intelligent noise reduction reduces bandwidth and storage requirements by up to 50%
- ▶ Easy to install with auto zoom/focus SR lens, wizard and pre-configured modes

The FLEXIDOME IP 7000 VR dome camera combines intelligence with adaptive video processing to provide you with superior HD image quality. This true day/night camera provides high resolution video, tuned for 24x7 applications.

The aesthetic vandal-resistant housing makes the camera suitable for indoor or outdoor installation.

## System overview

Compared to SD cameras, this camera offers, at no higher cost, motorized autofocus, higher resolution, better sensitivity, higher frame rates, and improved picture quality, and is still more bandwidth-efficient. Video storage costs are significantly reduced.

## Functions

### 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 Analysis (IVA) 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 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. The average typical optimized bandwidth in kbits/s for various image rates is shown in the table:

| IPS | 1080p | 720p | 480p |
|-----|-------|------|------|
| 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.

An upright mode can be selected for the second stream. In this mode an image of 400 x 720 (9:16 aspect ratio) is cropped from the full sensor image. When the scene to be monitored is suitable to this mode, the bandwidth and storage requirements are reduced.

### 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.

With IVA, 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.

### Flexible lens choice

The camera comes with a choice of AVF (Automatic Varifocal) lenses for easy installation. These SR (Super Resolution) lenses have an advanced iris design to ensure that the high resolution HD sensor produces the sharpest image possible, even in the corners.

### Simple set-up

The camera has a very intuitive user interface that allows fast and easy configuration. Configurable scene modes are provided with the best settings for a variety of applications.

- **Indoor** – general day-to-night changes in an indoor environment without sun highlights or street lighting effects.
- **Outdoor** – general day-to-night changes in an outdoor environment with sun highlights and street lighting effects.
- **Traffic** – for monitoring traffic movement on roads or parking lots. It can also be used in industrial applications where fast moving objects are to be monitored. Motion artifacts are minimized.
- **Night-optimized** – optimized for details in low light environments.

- **Intelligent AE** – optimized for scenes with fluctuating front and back light caused by sunlight or other illuminated objects in the scene.
- **Vibrant** – enhanced contrast, sharpness and saturation.
- **Low bit rate** – reduces bandwidth requirements.
- **Sports and gaming** – high-speed capture, and improved color rendition and sharpness.
- **Retail** – improved color rendition and sharpness with reduced bandwidth requirements.

### Storage management

Recording management can be controlled by the Bosch Video Recording Manager (VRM) 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.

### Video analytics

With built-in video content analysis, the camera reinforces the Intelligence-at-the-Edge concept where edge devices become increasingly intelligent. The MOTION+ video motion analysis system that is built into all camera versions is the perfect solution for applications where standard video content analysis features are required.

The IVA version of the camera uses the latest generation of the Bosch Intelligent Video Analysis (IVA) software. This IVA system is the guard-assistant system of choice when reliable indoor or outdoor video analytics is needed. The state-of-the-art system reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image.

The face detection feature detects faces in the scene and forwards a high quality JPEG image of the best shot of each face when the face disappears from the scene.

Retrospective forensic search capabilities are available remotely from the web browser or the Bosch Video Client.

### 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 notification so you are always aware of abnormal events.

### Access security

Password protection with three levels and 802.1x authentication is supported. To secure Web browser access, use HTTPS with a SSL certificate stored in the

camera. The video and audio communication channels can be independently AES encrypted with 128-bit keys by installing the optional encryption site license.

#### 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, 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 specification. Compliance with this standard 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.

#### 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/24 VAC power supplies. To increase system reliability, the camera can be simultaneously connected to both PoE and +12 VDC/24 VAC supplies. Additionally, uninterruptible power supplies (UPS) can be used, which will allow continuous operation, even during a power failure.

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.

#### Hybrid mode

An analog video output enables the camera to operate in hybrid mode. This mode provides simultaneous high resolution HD video streaming and an analog video output via a BNC connector. 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 protected against water and dust to IP 66 (NEMA Type 4X) standards. 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.

#### Typical applications

- Retail, banks
- Stadiums
- Schools
- Care facilities
- Traffic monitoring (air, land and sea)
- Hotels, bars and nightclubs
- Commercial and government buildings
- City surveillance and safety
- Border control

### Certifications and approvals

#### HD standards

Complies with the SMPTE 274M-2008 Standard in:

- Resolution: 1920x1080
- Scan: Progressive
- Color representation: complies with ITU-R BT.709
- Aspect ratio: 16:9
- Frame rate: 25 and 30 frames/s

Complies with the 296M-2001 Standard in:

- Resolution: 1280x720
- Scan: Progressive
- Color representation: complies with ITU-R BT.709
- Aspect ratio: 16:9
- Frame rate: 25 and 30 frames/s

#### Standards

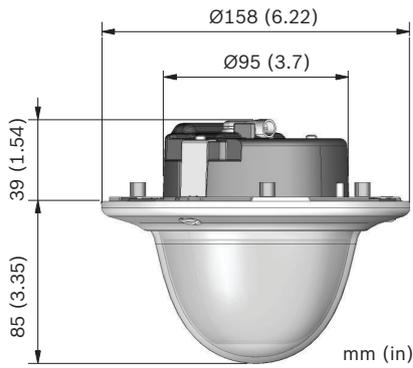
|                   |   |
|-------------------|---|
| Emission          | EN55022 Class B<br>FCC Part 15, class B                                 |
| Immunity          | EN50130-4 (PoE, +12 VDC, 24 VAC)*<br>EN50121-4                          |
| Safety            | EN60950-1<br>UL60950-1 (2nd edition)<br>CAN/CSA-C 22.2 No. 60950-1      |
| Vibration         | Camera with lens as per IEC60068-2-6 (5 m/s <sup>2</sup> , operational) |
| ONVIF conformance | EN 50132-5-2; IEC 62676-2-3   |

\* 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.

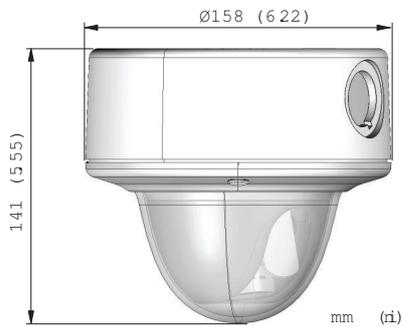
| Region | Certification  |
|--------|----------------|
| Europe | CE             |
|        | CE accessories |
| USA    | UL             |
|        | FCC            |

**Installation/configuration notes**

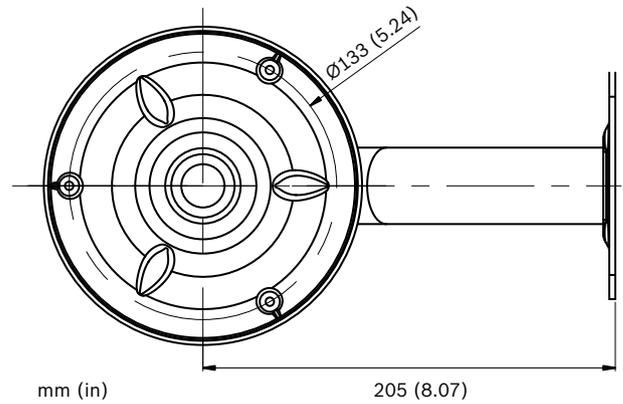
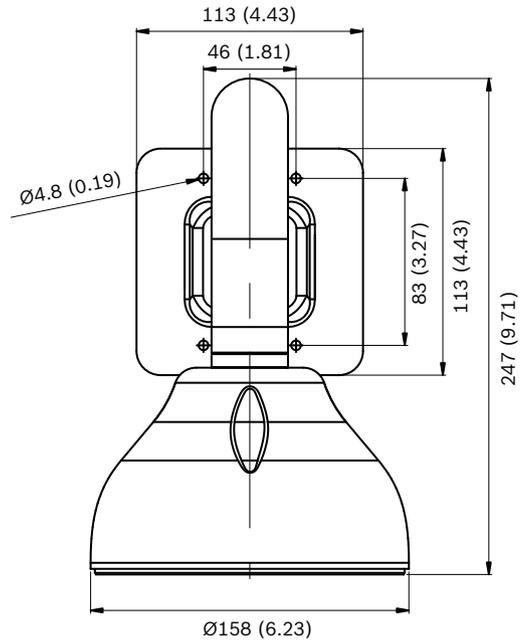
**Dimensions flush mounting**



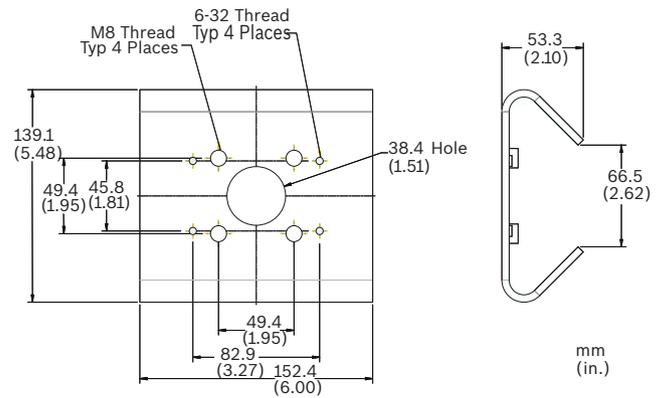
**Dimensions surface mounting**



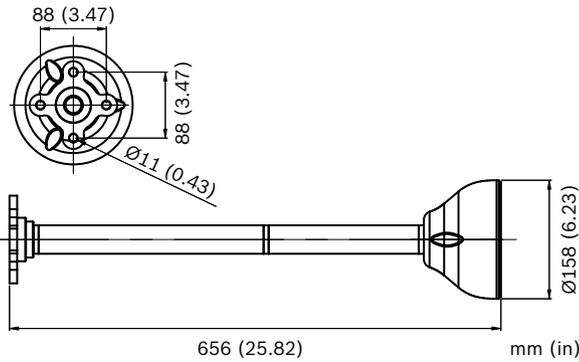
**VDA-WMT-DOME –Pendant Wall Mount**



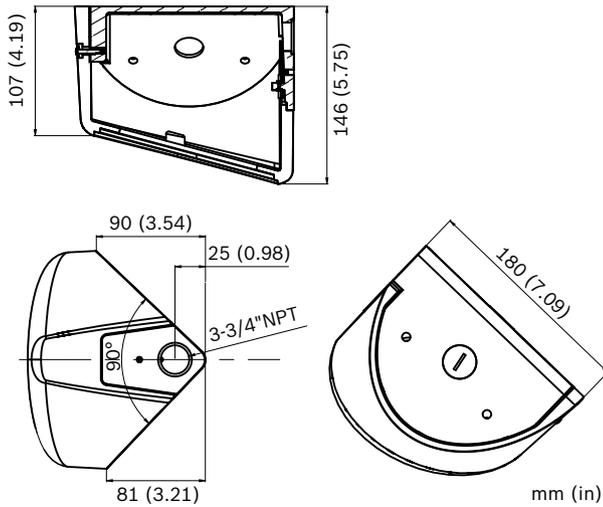
**LTC 9213/01 Pole Mount Adapter**



**VDA-PMT-DOME –Pendant Pipe Mount**



**VDA-CMT-DOME –Corner Mount**



**Parts included**

**Technical specifications**

|   |  |
|---|--|
| <b>Power</b>  |  |
| Power Supply  | 24 VAC 50/60 Hz<br>12 VDC<br>Power-over-Ethernet 48 VDC nominal                                  |
| Current Consumption   | 500 mA   600 mA IVA (12 VDC)<br>450 mA   500 mA IVA (24 VAC)<br>150 mA   175 mA IVA (PoE 48 VDC) |
| Power Consumption   | 6 W   7.2 W IVA  |
| PoE   | IEEE 802.3af (802.3at Type 1)  |
| <b>Sensor</b>   |  |
| Sensor type   | 1/2.7-inch CMOS  |
| Total sensor pixels   | 1952 x 1092 (2MP)  |
| <b>Video performance - Sensitivity</b>                      |  |
| <b>Sensitivity</b> – (3200K, reflectivity 89%, 1/60, 30IRE) |  |
| <b>Lens 3 - 9 mm (F1.2)</b>                                 |  |

|  |   |
|--|---|
| <b>Video performance - Sensitivity</b>   |   |
| • Color                                  | 0.22 lx (0.022 fc)  |
| • Mono                                   | 0.05 lx (0.005 fc)  |
| <b>Lens 10 - 23 mm (F1.6)</b>            |   |
| • Color                                  | 0.4 lx (0.04 fc)  |
| • Mono                                   | 0.1 lx (0.01 fc)  |
| <b>Video performance - Dynamic range</b> |   |
| Dynamic range                            | 76 dB WDR<br>92 dB WDR (with IAE)   |
| <b>Video streaming</b>                   |   |
| 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) |
| Overall IP Delay                         | Min. 120 ms, Max. 240 ms  |
| GOP structure                            | IP, IBP, IBBP   |
| Encoding interval                        | 1 to 30 (25) ips  |
| <b>Resolutions (H x V)</b>               |   |
| • 1080p HD                               | 1920 x 1080   |
| • 960p HD 4:3 (cropped)                  | 1280 x 960  |
| • 720p HD                                | 1280 x 720  |
| • Upright 9:16 (cropped)                 | 400 x 720   |
| • D1 4:3 (cropped)                       | 704 x 480   |
| • 480p SD                                | Encoding: 704 x 480;<br>Displayed: 854 x 480  |
| • 432p SD                                | 768 x 432   |
| • 288p SD                                | 512 x 288   |
| • 240p SD                                | Encoding: 352 x 240;<br>Displayed: 432 x 240  |
| • 144p SD                                | 256 x 144   |
| <b>Video functions</b>                   |   |
| Day/Night                                | Color, Mono, Auto   |
| Adjustable picture settings              | Contrast, Saturation, Brightness  |
| White Balance                            | 4 automatic modes, manual mode and measure  |
| Shutter                                  | Automatic Electronic Shutter (AES)<br>Fixed (1/60 [1/50] to 1/15000) selectable<br>Default shutter                  |

| Video functions                 |   |
|---------------------------------|---|
| Backlight compensation          | Off / On / Intelligent Auto Exposure (BLC)  |
| Contrast enhancement            | On/off  |
| Noise reduction                 | Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments                                      |
| Sharpness                       | Sharpness enhancement level selectable  |
| Privacy Masking                 | Four independent areas, fully programmable  |
| Video Motion Analysis           | MOTION+ or Intelligent Video Analysis   |
| Other functions                 | Image mirror, Image flip, Pixel counter, Video watermarking, Display stamping, Scene modes                              |
| Audio streaming                 |   |
| Audio Streaming                 | Full duplex / half duplex   |
| Signal-to-noise ratio           | > 50 dB   |
| Audio compression               | AAC-LC, G.711, L16 (live and recording)   |
| Input/output                    |   |
| Analog Video out                | CVBS (PAL/NTSC), 1 Vpp, BNC, 75 Ohm   |
| Analog Video out (service only) | CVBS (PAL/NTSC), 1 Vpp, 2.5 mm jack, 75 Ohm (no surge protection)   |
| Audio                           | 1 x mono line in, 1 x mono line out   |
| • signal line in                | 12 kOhm typical, 1 Vrms max   |
| • signal line out               | 1 Vrms at 1.5 kOhm typical,   |
| Alarm                           | 2 inputs  |
| • activation voltage            | +5 VDC to +40 VDC (+3.3 VDC with DC-coupled 22 kOhm pull-up resistor)   |
| Relay                           | 1 output  |
| • voltage                       | 30 VAC or +40 VDC<br>Maximum 0.5 A continuous, 10VA   |
| Local storage                   |   |
| Internal RAM                    | 10 s pre-alarm recording  |
| Memory card slot                | Supports up to 32 GB microSDHC / 2 TB microSDXC card. (An SD card of Class 6 or higher is recommended for HD recording) |
| Recording                       | Continuous recording, ring recording, alarm/events/schedule recording   |
| Software                        |   |
| Unit Configuration              | Via web browser or Configuration Manager  |
| Firmware update                 | Remotely programmable   |
| Software viewer                 | Web browser, Bosch Video Client, or third party software  |

| Network                     |   |
|-----------------------------|---|
| Protocols                   | IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, NTP (SNTP), SNMP (V1, 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 1.0, SSL, DES, 3DES, AES (optional)   |
| Ethernet                    | 10/100 Base-T, auto-sensing, half/full duplex   |
| Connectivity                | Auto-MDIX   |
| Interoperability            | ONVIF Profile S;<br>GB/T 28181  |
| Optical                     |   |
| Lens                        | 3 to 9 mm Automatic Varifocal (AVF) SR lens (IR corrected)<br>- or -<br>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)   | Wide: 121° x 62° (H x V)<br>Tele: 38° x 21° (H x V)   |
| Viewing angle (10 to 23 mm) | Wide: 34° x 18° (H x V)<br>Tele: 14.8° x 8.3° (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)<br>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  |
| Environmental               |   |
| Operating temperature       | -30 °C to +50 °C (-22 °F to +122 °F)  |
| 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   |
| Storage humidity            | Up to 98% relative humidity   |

|                           |  |
|---------------------------|--|
| Environmental             |  |
| Impact protection         | IK10   |
| Water/dust protection     | IP 66 and NEMA Type 4X   |
| Environmental Test Method | EN 50130-5:2011 Alarm systems Part 5 (Class IV Outdoor in general) |

## Ordering information

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 3 to 9 mm SR lens; MOTION+  
Order number **NIN-832-V03P**

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; IAE; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 3 to 9 mm SR lens; IVA  
Order number **NIN-832-V03IP**

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 3 to 9 mm SR lens; MOTION+; SMB  
Order number **NIN-832-V03PS**

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; IAE; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 3 to 9 mm SR lens; IVA; SMB  
Order number **NIN-832-V03IPS**

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 10 to 23 mm SR lens; MOTION+  
Order number **NIN-832-V10P**

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; IAE; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 10 to 23 mm SR lens; IVA  
Order number **NIN-832-V10IP**

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 10 to 23 mm SR lens; MOTION+; SMB  
Order number **NIN-832-V10PS**

### FLEXIDOME IP 7000 VR

High-performance IP dome camera for HD surveillance. 1080p30; Hybrid; IP66; IK10; IDNR; IAE; ROI; H.264 quad-streaming; cloud services; free viewing Apps; 10 to 23 mm SR lens; IVA; SMB  
Order number **NIN-832-V10IPS**

### Accessories

#### VDA-WMT-DOME Wall Pendant Mount Bracket

Wall pendant mount bracket for FlexiDome cameras  
Order number **VDA-WMT-DOME**

#### VDA-CMT-DOME Corner Mount Bracket

Corner mount bracket for FlexiDome cameras  
Order number **VDA-CMT-DOME**

#### VDA-PMT-DOME Pendant Pipe Mount Bracket

Pendant pipe mount bracket for FlexiDome cameras  
Order number **VDA-PMT-DOME**

#### LTC 9213/01 Pole Mount Adapter

Flexible pole mount adapter for camera mounts (use together with the appropriate wall mount adapter). Max. 9 kg (20 lb); 3 to 15 inch diameter pole; stainless steel straps  
Order number **LTC 9213/01**

#### VDA-PLEN-DOME In-ceiling Housing for Plenums Kit

FLEXIDOME in-ceiling housing installation kit (plenum-rated) for various FLEXIDOME cameras  
Order number **VDA-PLEN-DOME**

#### VGA-IC-SP In-ceiling Support Kit

Suspended ceiling support kit for FLEXIDOME VR cameras (requires VDA-PLEN-DOME kit) and AUTODOME 100/600/7000 cameras.  
Order number **VGA-IC-SP**

#### UPA-2420-50 Power Supply

Power supply for cameras. 220 VAC, 50 Hz In; 24 VAC, 20 VA Out  
Order number **UPA-2420-50**

#### UPA-2430-60 Power Supply

Power supply for camera. 120 VAC, 60 Hz; 24 VAC, 30 VA Out  
Order number **UPA-2430-60**

#### UPA-2450-50 Power Supply, 220 V, 50 Hz

Indoor power supply for camera. 220 VAC, 50 Hz In; 24 VAC, 50 VA Out  
Order number **UPA-2450-50**

#### UPA-2450-60 Power Supply, 120 V, 60 Hz

Indoor power supply for camera. 120 VAC, 60 Hz In; 24 VAC, 50 VA Out  
Order number **UPA-2450-60**

#### VDA-455TBL Tinted bubble

Tinted bubble for FlexiDome series  
Order number **VDA-455TBL**

**VDA-455CBL Clear bubble**

Clear Bubble for FlexiDome series  
Order number **VDA-455CBL**

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**S1460 Service/Monitor Cable**

2.5 mm jack to BNC video connector cable. 1 m  
Order number **S1460**

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**VIDEOJET XTC XF Video Transcoder**

High-performance video transcoder. H.264; CF card slot; ROI; max resolution 1080p; 2 channels  
Order number **VJT-XTCXF**

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**Surface Mount Box FLEXIDOME VR**

Surface Mount Box for FLEXIDOME VR Cameras  
Order number **VDA-455SMB-IP**

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**NIN-DMY Dummy Camera**

FLEXIDOME VR family dummy camera  
Order number **NIN-DMY**

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**Software Options**

**BVIP AES 128 Bit Encryption**

Site licence for BVIP AES 128-bit encryption. Enables encrypted communication between BVIP devices and management stations  
Order number **MVS-FENC-AES**

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