The AUTODOME 7000 HD is an easy to install, high-speed PTZ dome camera, in a field-proven indoor/outdoor pendant housing or indoor in-ceiling housing, that delivers unmatched picture quality and network performance day and night with superb high-definition (HD) 1080p25/30 (2MP) video and 20x optical zoom.

The camera provides complete network-based control of all dome functionality including pan/tilt/zoom operation, presets, tours and alarms as well as web-based configuration of all dome settings. It also provides direct network video streaming using H.264 compression / bandwidth throttling to efficiently manage bandwidth and storage requirements while delivering outstanding image quality.

**Functions**

**High-performance PTZ day/night camera**
The camera has a large, effective sensor area that contributes to very high camera sensitivity. The camera can be configured to operate in 720p50/60 mode for capturing fast motion (for example, in traffic or gaming scenarios). The default 1080p25/30 mode delivers high resolution images with six times more details than a standard definition (SD) camera.

**Wide Dynamic Range**
The camera features Wide Dynamic Range (WDR) technology that allows for the capture of clear images from both bright and dark areas in the same frame. WDR ensures that bright areas are not saturated and that dark areas are not too dark.

**Sodium vapor lamp white balance**
The camera is an exceptional performer when capturing video under a sodium vapor lamp (a street lamp or tunnel lamp, for example). Uncorrected images under these conditions have a yellowish tint, which can make identification difficult. In the Sodium Vapor White Balance mode, the camera automatically compensates for the light from a sodium vapor lamp to restore objects to their original color.
Virtual masking
The camera offers Virtual Masking, which gives users flexibility to mask parts of the scene which should not be considered for flow analysis to trigger Intelligent Tracking. This allows users to mask background motion in the scene such as moving trees, pulsating lights, busy roads, etc.

Intelligent Tracking
The camera utilizes the built-in Intelligent Video Analytics (IVA) to follow an individual or an object continuously. Objects detected by IVA when the camera is in a stationary position activate the Intelligent Tracking feature, which controls the pan/tilt/zoom actions of the camera to keep the tracked object in the scene. The new Intelligent Tracking is based on robust flow detection algorithms which can reliably track moving objects even under challenging scenes. The tracking and detection reliability can be enhanced further with virtual masking for scenes with a lot of background motion such as trees or other objects creating constant motion in the scene.

The camera supports three modes for Intelligent Tracking:
- **Auto mode**: When configured in this mode, the camera actively analyzes the video to detect any moving object. If it detects movement, it begins to track the object. This mode is most useful for scenarios where normally no motion is expected.
- **One Click mode**: In this mode, users can click an object moving in the live video image to enable the camera to track the movement of the selected object. This mode is most useful for scenarios where normal scene activity is expected.
- **IVA-triggered mode**: In this mode, the camera continuously analyzes the scene for IVA alarms or IVA rule violations. If an IVA rule is violated, it triggers the advanced tracking feature of the camera to start following the object / person that triggered the alarm. This unique combination of robust IVA and Intelligent Tracking allows the camera to track moving objects of interest without getting distracted by other moving objects in the scene.

Intelligence
With built-in video content analysis, the AUTODOME reinforces the Intelligence-at-the-Edge concept where edge devices become increasingly intelligent. The AUTODOME comes with Bosch’s Intelligent Video Analysis (IVA) built-in. IVA is state-of-the-art intelligent video analysis that reliably detects, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image. The IVA functionality built into the AUTODOME is able to detect idle and removed objects as well as loitering, multiple line crossing, and trajectories. IVA also supports BEV (Bird’s Eye View) People counting. Assisted Self Calibration and configurable detection filters improve reliability and reduce operator work load.

AUTODOME 7000 PTZ drive and mechanism
The AUTODOME 7000 supports 256 pre-positions and two styles of Guard Tours: Preset and Record/Playback. Users can configure the preset standard tour with as many as 256 sequential pre-positions, with a configurable dwell time between pre-positions. The AUTODOME Series also provides support for two recorded tours, which are recorded macros of an operator’s movements, including pan, tilt, and zoom activities, and can be played back with the click of a button.

Pan and tilt preset repeatability are accurate to within ±0.1 degrees to ensure that the correct scene is captured every time. The camera delivers variable pan/tilt speeds from a crawl speed of only 0.1 degrees per second to a full 400 degrees per second. The camera is capable of pan speeds of 400 degrees per second and tilt speeds of 300 degrees per second between prepositions. The camera provides a tilt angle 18 degrees above the horizon, and a pan range of up to 360 degrees continuous rotation.

Five (5) pre-programmed user modes
Five pre-programmed but configurable user modes, optimized with the best settings for a variety of typical applications, make camera programming on-site easy and user-friendly. Users select from the menu the mode that best defines the environment in which the camera is installed:
- Outdoor – general day-to-night changes with sun highlights and street lighting
- Indoor – general day-to-night changes without sun highlights and street lighting
- Low light – optimized for sufficient details at low light
- Motion – monitoring traffic or fast moving objects; motion artifacts are minimized
- Vibrant – enhanced contrast color reproduction and sharpness

Users have the ability to customize these modes, if necessary, for the specific requirements of the site.

Superior privacy masking
The camera provides 24 individual, easy to configure privacy masks, with up to 8 displayed in the same scene. As the camera is zoomed, each mask changes size smoothly and quickly, ensuring that the covered object cannot be seen in most cases.

Comprehensive streaming capabilities on Bosch’s Common Product Platform (CPP4)
The camera has an advanced, efficient H.264 encoder (CPP4) embedded for high quality HD streaming video and very efficient streaming and network capabilities. The new platform supports simultaneous streaming of individually configurable HD streams, and allows a choice of HD resolution in combination of SD resolutions.

Recording and storage management
A memory card (SD (Secure Digital), SDHC (Secure Digital High Capacity), or SDXC (Secure Digital eXtended Capacity)) can be used for local alarm
recording or for scheduled local recording to improve the overall recording reliability. Recording management can be controlled by the Bosch Video Recording Manager (VRM), or the camera can use iSCSI targets directly without any recording software.

**Advanced networking capabilities**
The AUTODOME offers advanced capabilities so you can configure the camera to take advantage of the latest networking technology. The AUTODOME offers Quality of Service (QoS) configuration options to ensure fast network response to PTZ data and images. Quality of Service (QoS) is the set of techniques to manage network resources. QoS manages the delay, delay variation (jitter), bandwidth, and packet loss parameters to guarantee the ability of a network to deliver predictable results. QoS identifies the type of data in a data packet and divides the packets into traffic classes that can be prioritized for forwarding.

The AUTODOME also supports the IPv6 internet-layer protocol for packet-switched internetworking across multiple IP networks. IPv6 uses 128-bit addresses (IPv4 uses 32-bit addressing), which allows for many more devices and users on the internet as well as extra flexibility in allocating addresses and efficiency for routing traffic.

**Dual power options**
All models can be powered by a High Power-over-Ethernet (Bosch High PoE)-compliant network using a Bosch High PoE Midspan (sold separately) over a single network cable and/or a 24VAC power supply. Certain models can also be powered by any PoE+ Power Sourcing Equipment (PSE; midspan or switch) that is compliant to the IEEE 802.3at, class 4 standard and/or a 24 VAC power supply. When powered using High PoE or PoE+ (IEEE 802.3at class 4) configuration, only a single cable connection is required to power and to control the camera while also viewing images from the camera. For additional system reliability, users also have the option to connect the 24 VAC power supply to the camera while using High PoE. Only in-ceiling models and indoor/outdoor pendant models used in indoor applications (without heaters on) can use High PoE or PoE+ (including non-Bosch PoE+ PSE).

**Ease of installation and servicing**
The camera has been designed for quick and easy installation; a key feature from Bosch CCTV products. All housings feature recessed screws and latches for increased tamper resistance.

Indoor/outdoor pendant housings are rated to provide IP66 protection and offer an operating temperature range down to -40 °C (-40 °F). The indoor/outdoor pendant comes fully assembled with a sunshield and ready for wall or pipe applications with the proper mounting hardware (sold separately). In addition, the camera models with both pendant and in-ceiling housing come equipped with a low-impact, high-resolution acrylic bubble for enhanced image clarity.

You can easily convert the outdoor pendant for indoor applications by removing the sunshield.

Bosch offers a full complement of hardware and accessories (sold separately) for wall, corner, mast, roof, pipe mount, and in-ceiling applications for indoor and outdoor environments, which allow the camera to be adapted easily to individual site requirements.

**Video management system support**
The camera ships with Bosch Video Client (BVC), an easy-to-use software from Bosch that is suitable for midsize installations. For large enterprise systems, AUTODOME cameras can be used with Bosch Video Management System (BVMS), which allows enhanced video management and viewing capabilities. In addition, the camera is supported/integrated into all of the leading third party video management systems.

**ONVIF conformance**
The AUTODOME Series conforms to the ONVIF Profile S specification allowing easy integration with the conformance devices and VMS. For more information about ONVIF, visit www.onvif.org.

The camera conforms to the ONVIF (Open Network Video Interface Forum) specification which guarantees interoperability between network video products regardless of manufacturer. ONVIF conformance devices are able to exchange live video, audio, metadata and control information. They are automatically discovered and connected to network applications such as video management systems.

**Fiber Optic Kit**
Bosch offers the optional VG4-SFPSCKT, a unique media converter module for use with AUTODOME cameras. This media converter module is designed to accept a wide-range of 10/100 Mbps SFP modules for use with Multimode or Singlemode optical fiber with LC or SC connectors.

The media converter module along with the SFP module is user-installed directly into the camera’s power supply box to provide an integrated fiber optic solution.

**Unsurpassed reliability**
As with all Bosch products, the camera has been subjected to the industry’s most comprehensive and demanding battery of endurance tests such as HALT (highly accelerated life testing) to make sure it will hold up through years of use. And of course, it comes with Bosch’s industry-leading 3-year warranty.

**Access security**
Various security levels are available for accessing the network, the camera, and the data channels. As well as password protection with three levels, 802.1x authentication using a RADIUS (Remote Authentication Dial In User Service) server is supported. To secure Web browser access, use HTTPS with a SSL certificate.
stored in the camera. For total data protection, the video and audio communication channels can be independently AES encrypted with 128-bit keys by installing the optional encryption site license.

**Easy upgrade**
Remotely upgrade the camera whenever new firmware becomes available. This ensures up-to-date products, thus protecting investment with little effort.

### Certifications and approvals

#### HD standards
- Complies with the SMPTE 274M-2008 Standard in:
  - Resolution: 1920×1080
  - 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: 1280×720
  - Scan: Progressive
  - Color representation: complies with ITU-R BT.709
  - Aspect ratio: 16:9
  - Frame rate: 25, 30, 50 and 60 frames/s

#### Electromagnetic Compatibility (EMC)
Complies with FCC Part 15, ICES-003, and CE regulations, including EN 50130-4, EN 55022 Class A, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, and EN 50121-4 (Railway applications).

#### Product Safety
Complies with CE regulations, UL, CSA, EN, and IEC Standards EN60950-1.

#### Environmental
- In-ceiling: IP54, Plenum rated (with acrylic bubble)
- Indoor/Outdoor pendant: IP66, NEMA 4X

#### ONVIF conformance
EN-50132-5-2

**Notice**
Conformity to EN 50130-4
One of the following power supply units is required to conform to the EN 50130-4 standard: VG4-A-PSU0, VG4-A-PSU1, VG4-A-PSU2, VG4-A-PA0, VG4-A-PA1, or VG4-A-PA2.

### Parts included

#### In-ceiling

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AUTODOME 7000 In-Ceiling camera with acrylic bubble and white trim ring</td>
</tr>
<tr>
<td>1</td>
<td>Interface box</td>
</tr>
<tr>
<td>1</td>
<td>Optional black trim ring</td>
</tr>
<tr>
<td>1</td>
<td>Ceiling gasket (for IP54 conformance)</td>
</tr>
</tbody>
</table>

1. Product DVD (which includes complete Operation Manual)
2. Packet of printed Safety literature

#### Outdoor Pendant

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AUTODOME 7000 Pendant camera with clear acrylic bubble and sunshield</td>
</tr>
<tr>
<td>1</td>
<td>Product DVD (which includes complete Operation Manual)</td>
</tr>
<tr>
<td>1</td>
<td>Packet of printed Safety literature</td>
</tr>
</tbody>
</table>

**Notes:**
- The pendant can be converted to an indoor pendant by removing the sunshield.
- Mounting hardware and accessories are available separately.

### Technical specifications

#### 20x HD Day/Night Camera

<table>
<thead>
<tr>
<th>Imager</th>
<th>1/2.8-in.-type CMOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Pixels</td>
<td>Effective: Approximately 3.27 megapixels</td>
</tr>
<tr>
<td></td>
<td>Delivered: Approximately 2 megapixels</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>HD: 16:9</td>
</tr>
<tr>
<td>Lens</td>
<td>20x optical zoom (4.7 to 94 mm)</td>
</tr>
<tr>
<td>Focus</td>
<td>One-push (default), Automatic (normal, low), Manual</td>
</tr>
<tr>
<td>Iris</td>
<td>Automatic with manual override (F1.6 to F3.5)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field of View</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• 1080p Mode</td>
<td>2.9° (tele) to 55.4° (wide)</td>
</tr>
<tr>
<td>• 720p Mode</td>
<td>2.0 (tele) to 37.6 (wide)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minimum Working Distance</th>
<th></th>
</tr>
</thead>
</table>
| Day mode                 | 300 mm (wide) to 1000 mm (tele)
| Night mode               | 10 mm (wide) to 1000 mm (tele)

| Gain Control              | Automatic/Manual (~3 to +28 dB, +2 dB steps/16 steps) |

| Digital Zoom              | 12x |

<table>
<thead>
<tr>
<th>Sensitivity (typical)²</th>
<th>30 IRE²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day Mode</td>
<td>0.8 lux (0.074 fc)</td>
</tr>
<tr>
<td></td>
<td>1.7 lux (0.158 fc)</td>
</tr>
<tr>
<td>Night Mode</td>
<td>0.04 lux (0.004 fc)</td>
</tr>
<tr>
<td></td>
<td>0.08 lux (0.007 fc)</td>
</tr>
</tbody>
</table>
**SensUP Off**
- (1/30 [1/25] shutter; High Sensitivity Off)
- 0.12 lux (0.011 fc)
- 0.3 lux (0.028 fc)

**SensUP On, max.**
- (0.25 sec. shutter; High Sensitivity On)
- 0.005 lux (0.0005 fc)
- 0.011 lux (0.001 fc)

**Electronic Shutter Speed (AES)**
- 1/1 to 1/10000 s, 22 steps

**Wide Dynamic Range (WDR)**
- 86 dB (WDR on)

**Signal-to-Noise Ratio (SNR)**
- > 50 dB (AGC off, Weighting ON)

**Backlight Compensation**
- On/Off

**White Balance**
- ATW, Indoor, Outdoor, AWB Hold, Extended ATW, Manual, Outdoor Auto, Sodium Lamp Auto, Sodium Lamp

**Day/Night**
- Monochrome, Color, Auto

**Mechanical**

<table>
<thead>
<tr>
<th>In-Ceiling</th>
<th>Pendant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pan Range</td>
<td>360° cont.</td>
</tr>
<tr>
<td>Tilt Angle</td>
<td>1° above horizon</td>
</tr>
<tr>
<td>Pre-position Speed</td>
<td>Pan: 400°/s Tilt: 300°/s</td>
</tr>
<tr>
<td>Pan/Tilt Modes</td>
<td></td>
</tr>
<tr>
<td>• Turbo Mode (Manual Control)</td>
<td>Pan: 0.1°/s – 400°/s Tilt: 0.1°/s – 300°/s</td>
</tr>
<tr>
<td>• Normal Mode</td>
<td>0.1°/s-120°/s</td>
</tr>
<tr>
<td>Preset Accuracy</td>
<td>± 0.1° typ.</td>
</tr>
</tbody>
</table>

**Electrical**

<table>
<thead>
<tr>
<th>In-Ceiling</th>
<th>Pendant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>21-30 VAC, 50/60 Hz (class II); High PoE (with Bosch NPD-6001A Midspan); PoE+ (IEEE 802.3at, class 4 standard)</td>
</tr>
<tr>
<td>Power Consumption, typical</td>
<td>24 W / 44 VA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scenario</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stream 1</td>
<td>Stream 2</td>
</tr>
<tr>
<td>1</td>
<td>Full HD 1080p30</td>
</tr>
<tr>
<td>2</td>
<td>Full HD 1080p30</td>
</tr>
<tr>
<td>3</td>
<td>Full HD 1080p30</td>
</tr>
<tr>
<td>4</td>
<td>Full HD 1080p30</td>
</tr>
<tr>
<td>5</td>
<td>HD 720p60</td>
</tr>
<tr>
<td>6</td>
<td>HD 720p30</td>
</tr>
<tr>
<td>7</td>
<td>HD 720p30</td>
</tr>
<tr>
<td>8</td>
<td>Downscaled stream</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>GOP Structure</td>
<td>IP, IBP, IBBP</td>
</tr>
<tr>
<td>Data Rate (Range)</td>
<td>9.6 kbps to 10 Mbps (per stream)</td>
</tr>
<tr>
<td>Overall IP Delay</td>
<td>240 ms</td>
</tr>
</tbody>
</table>

**Resolutions (H x V)**

<table>
<thead>
<tr>
<th>HD Resolutions</th>
<th>1080p HD</th>
<th>720p HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920 x 1080</td>
<td>1280 x 720</td>
<td></td>
</tr>
</tbody>
</table>

**Down-scaled SD streams**

| 432p SD | 768 x 432 |
| 288p SD | 512 x 288 |
| 144p SD | 256 x 144 |
| Corridor mode | 400 x 720 |
| D1 4:3 cropped | 704 x 480 |

**Ethernet**

10-Base T/100 Base-TX, auto-sensing, half/full duplex, RJ45

**Protocols**

IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, SNMP, 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

**Advanced Networking**

IPv6, QoS

**Audio**

- Standard
  - G.711, 8 kHz sampling rate
  - L16, 16 kHz sampling rate
  - AAC, 16 kHz sampling rate
- Signal-to-Noise Ratio
  >50 dB
- Audio Streaming
  Bidirectional (full-duplex)

**Local Storage**

- Memory Card Slot
  User-supplied SD/SDHC/SDXC memory card (maximum 2TB – SDXC)
- Recording
  Continuous recording of video and audio

---

### Fiber Optic Kit

**VG4-SFPSCKT**

**Description**

Fiber Optic Ethernet Media Converter kit. Requires a small form-factor pluggable (SFP) module (sold separately).

**Data Interface**

Ethernet

**Data Rate**

10/100 Mbps

IEEE 802.3 Compliant

Full Duplex or Half Duplex Electrical Port

Full Duplex Optical Port

**Compatible Receiver**

CNFE2MC

**Installation**

Installed inside a VG4-A-PA0, VG4-A-PA1, VG4-A-PA2, VG4-PSU1, or a VG4-PSU2 power supply box with supplied mounting hardware

---

### SFP Modules

**Description**

Interchangeable modules available for use with MMF or SMF optical fiber.

**Data Interface**

Ethernet

**Data Rate**

10/100 Mbps

IEEE 802.3 Compliant

**Mechanical**

**Dimensions (LxWxH)**

- SFP-2 and SFP-3
  - 55.5 x 13.5 x 8.5 mm (2.2 x 0.5 x 0.3 in.)
- SFP-25, SFP-26
  - 63.8 x 13.5 x 8.5 mm (2.5 x 0.5 x 0.3 in.)

**Weight (all SFP modules)**

0.23 kg (.05 lb)

<table>
<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Wavelength (transmit/receive)</th>
<th>Max. Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFP-2</td>
<td>MMF</td>
<td>Duplex LC</td>
<td>1310 nm / 1310 nm</td>
</tr>
<tr>
<td>SFP-3</td>
<td>SMF</td>
<td>Duplex LC</td>
<td>1310 nm / 1310 nm</td>
</tr>
<tr>
<td>SFP-25</td>
<td>MMF</td>
<td>Single SC</td>
<td>1310 nm / 1550 nm</td>
</tr>
<tr>
<td>SFP-26</td>
<td>MMF</td>
<td>Single SC</td>
<td>1550 nm / 1310 nm</td>
</tr>
</tbody>
</table>

**Fiber Compatibility**

Optical Fiber Compatibility, MMF

50/125 µm MMF. For 50/125 µm fiber, subtract 4 dB from the specified optical budget value. Must meet or exceed fiber standard ITU-T G.651.
### Optical Fiber Compatibility, SMF

8–10/125 µm SMF. Must meet or exceed fiber standard ITU-T G.652.

### Optical Distance Specifications

Specified transmission distances are limited to the optical loss of the fiber and any additional loss introduced by connectors, splices, and patch panels. The modules are designed to operate over the entire optical loss budget range, so they do not require a minimum loss in order to operate.

### Miscellaneous

<table>
<thead>
<tr>
<th>Sector/Titling</th>
<th>16 independent sectors with a 20-character title/sector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masking</td>
<td>24 individually configurable privacy masks</td>
</tr>
<tr>
<td>Pre-positions</td>
<td>256, each with a 20-character title</td>
</tr>
</tbody>
</table>
| Guard Tours | Two (2) types of tours:  
  - Recorded tours – two (2)  
  - Preset tour – one (1), consisting of up to 256 scenes, consecutively |
| Supported Languages | English, Chinese, Dutch, French, German, Italian, Japanese, Polish, Portuguese, and Spanish |

### User Connections

| Power, Camera | RJ-45 10/100 Base-TX Ethernet (High Power-over-Ethernet [High PoE]) or PoE+ (IEEE 802.3at, class 4 standard)  
  21-30 VAC, 50/60 Hz |
|---|---|
| Power, Heater | RJ-45 10/100 Base-TX Ethernet (High Power-over-Ethernet [High PoE])  
  21-30 VAC, 50/60 Hz |
| Video and Control | RJ-45 10/100 Base-TX Ethernet |
| Alarm Inputs (7) | 2 supervised; 5 non-supervised Programmable for "normally open" or "normally closed" |
| Alarm Outputs (4) | 1 dry contact relay; 3 open collector/  
  transistor outputs  
  32 VDC @ 150 ma max. |
| 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 |

### Environmental

#### In-Ceiling (with acrylic bubble)

- IP54, Plenum rated  
- NEMA 4X  
- NEMA 4X for:  
  - Access to Hazardous parts  
  - Ingress of solid foreign objects (falling dirt, circulating dust, settling dust)  
  - Ingress of water (dripping and light splashing, hosedown and splashing)  
  - Corrosive agents

#### Pendant (with acrylic bubble)

- IP66, NEMA 4X  
- NEMA 4X for:  
  - Access to Hazardous parts  
  - Ingress of solid foreign objects (falling dirt, circulating dust, settling dust)  
  - Ingress of water (dripping and light splashing, hosedown and splashing)  
  - Corrosive agents

### Operating Temp.

- -10 °C to 40 °C (14 °F to 104 °F)  
- -40 °C to 55 °C (-40 °F to 131 °F)  
- -10 °C to 55 °C (14 °F to 131 °F)  
- -40 °C to 60 °C (-40 °F to 140 °F)  
- -40 °C to 60 °C (-40 °F to 140 °F)

### Storage Temp.

- -40 °C to 60 °C (-40 °F to 140 °F)

### Humidity

- 0% to 90% relative, non-condensing
- 0% to 100% relative, condensing

### Construction

#### Dimensions

See dimensional drawings

#### Weight

- In-ceiling: 2.58 kg (5.69 lb)  
- Indoor/Outdoor Pendant: 3.06 kg (6.75 lb)

#### Bubble Size

- In-ceiling: 153.1 mm diameter (6.03 in.)  
- Pendant: 153.1 mm diameter (6.03 in.)

#### Construction Material

- **Housing**  
  - In-ceiling: Magnesium  
  - Pendant: Cast aluminum
- **Bubble**  
  - In-ceiling: HD High-resolution acrylic  
  - Pendant: High-resolution acrylic

#### Standard Color

- White (RAL 9003)

#### Standard Finish

- Powder coated, sand finish

### Mounts/Accessories

#### Bubbles

| Clear HD high-resolution acrylic | VGA-BUBHD-CCLA |
| Tinted HD high-resolution acrylic (Included with in-ceiling camera models.) | VGA-BUBHD-CTIA |

#### Pendant

| Clear high-resolution acrylic (Included with pendant camera models.) | VGA-BUBBLE-PCLA |
| Tinted high-resolution acrylic | VGA-BUBBLE-PTIA |

Polycarbonate bubbles are not recommended for use with HD products because of optical degradation.

### Pendant Arm Mounts

| Wall Arm (No Transformer) | VG4-A-PA0 |
| Wall Arm (120/230 VAC Transformer) | VG4-A-PA1 / VG4-A-PA2 |
| Pendant Arm with Wiring | VGA-PEND-ARM |
| Mounting plate for VGA-PEND-ARM | VGA-PEND-WPLATE |
| Trim skirt for VG4 Series Power Supplies | VG4-A-TSKIRT |
Optional Mounting Plates for Arm Mounts

<table>
<thead>
<tr>
<th>Mounting Plate</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corner Mounting Plate</td>
<td>VG4-A-9542</td>
</tr>
<tr>
<td>Mast (Pole) Mounting Plate</td>
<td>VG4-A-9541</td>
</tr>
<tr>
<td>Pendant Pipe Mounts</td>
<td></td>
</tr>
<tr>
<td>Pipe Mount Cap</td>
<td>VG4-A-9543</td>
</tr>
</tbody>
</table>

Pendant Roof Mounts

<table>
<thead>
<tr>
<th>Mounting Plate</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roof (Parapet) Mount</td>
<td></td>
</tr>
<tr>
<td>(VG4-A-9543 Pipe Mount Cap required. Available separately.)</td>
<td>VGA-ROOF-MOUNT</td>
</tr>
</tbody>
</table>

Optional Mounting Plates for Roof Mounts

<table>
<thead>
<tr>
<th>Mounting Plate</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat Roof Adapter for Parapet Mount</td>
<td>LTC 9230/01</td>
</tr>
<tr>
<td>In-ceiling Support Kits</td>
<td></td>
</tr>
<tr>
<td>Bracket for suspended or drop ceilings</td>
<td>VGA-IC-SP</td>
</tr>
</tbody>
</table>

Power Supplies

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>High PoE Midspan 60W, single port, AC in</td>
<td>NPD-6001A</td>
</tr>
<tr>
<td>Outdoor Power Supply Box, no transformer</td>
<td>VG4-A-PSU0</td>
</tr>
<tr>
<td>Outdoor Power Supply Box (120/230 VAC Transformer)</td>
<td>VG4-A-PSU1 / VG4-A-PSU2</td>
</tr>
<tr>
<td>Fiber Optic Kit</td>
<td>VG4-SFPSCKT</td>
</tr>
</tbody>
</table>

Dimensional Drawings

AUTODOME 7000 – Slot for SD card

1 Slot for SD card

AUTODOME 7000 Dimensions – Pendant, Pipe

1 Power supply box and sunshield
2 Sunshield removed
3 Mounting plate
4 Power supply box
5 Trim skirt

AUTODOME 7000 Dimensions – In-ceiling
AUTODOME Dimensions - Mounts

1 Mast Mount
2 Corner Mount
3 Pipe Mount
4 Roof Mount
5 Roof Mount Adapter
6 Power Supply for Pipe and Roof Mounts

Ordering information

**AUTODOME 7000 HD 20x In-ceiling**
Order number VG5-7220-CPT4

**AUTODOME 7000 HD 20x Indoor/Outdoor Pendant**
Order number VG5-7220-EPC4

**Accessories**

NPD-6001A High PoE Midspan 60W, single port, AC in High Power, 60 W Single Port PoE Midspan with AC in
Order number NPD-6001A

VG4-A-PSU0 24 VAC Power Supply Unit
24 VAC, 100 W, white, for an AutoDome Series camera
Order number VG4-A-PSU0

VG4-A-PSU1 120 VAC Power Supply Unit
120 VAC, 100 W, white, for an AutoDome Series camera
Order number VG4-A-PSU1

VG4-A-PSU2 230 VAC Power Supply Unit
230 VAC, 100 W, white, for an AutoDome Series camera
Order number VG4-A-PSU2

VG4-A-PA0 Pendant Arm Mount
Pendant arm mount with power supply box for an AutoDome Series cameras, no transformer, white
Order number VG4-A-PA0

VG4-A-PA1 Pendant Arm Mount with 120 VAC Transformer
Pendant arm mount with power supply box for AutoDome Series cameras with a 120 VAC transformer, white
Order number VG4-A-PA1

VG4-A-PA2 Pendant Arm Mount with 230 VAC Transformer
Pendant arm mount with power supply box for AutoDome Series cameras with a 230 VAC transformer, white
Order number VG4-A-PA2

**VGA-PEND-ARM Pendant Arm with Wiring**
Compatible with an AutoDome Series pendant housing
Order number VGA-PEND-ARM

**VGA-PEND-WPLATE Mounting Plate**
Mounting plate for VGA-PEND-ARM, compatible with an AutoDome Series camera
Order number VGA-PEND-WPLATE

**VGA-ROOF-MOUNT Roof Mount**
Roof parapet mount, white (VG4-A-9543 Pipe Mount Cap required. Available separately.)
Order number VGA-ROOF-MOUNT

**LTC 9230/01 Flat Roof Mount Adapter**
For mounting a unit in an upright position on a flat surface for roof parapet mount VGA-ROOF-MOUNT
Order number LTC 9230/01

**VG4-A-9541 Pole Mount Adapter**
Pole mount adapter for a for an AutoDome Series pendant arm or a VEI-30 or NEI-30 Dinion Infrared Imager, designed for poles with a diameter of 100-380 mm (4-15 in.), white
Order number VG4-A-9541

**VG4-A-9542 Corner Mount Adapter**
Corner mount adapter for an AutoDome Series pendant arm or a VEI-30 or NEI-30 Dinion Infrared Imager
Order number VG4-A-9542

**VG4-A-9543 Pipe Mount**
Pipe mount, white, for an AutoDome Series pendant housing
Order number VG4-A-9543

**VGA-IC-SP In-ceiling Support Kit for Various Bosch Dome Cameras**
Suspended ceiling support kit for various families of Bosch dome cameras
Order number VGA-IC-SP

**VGA-SBOX-COVER Cover for AutoDome Power Supply Boxes**
Order number VGA-SBOX-COVER

**VG4-A-TSkit Trim Skirt for AutoDome Power Supply Boxes**
Trim skirt for the following AutoDome Series power supply boxes:
VG4-A-PSU0, VG4-A-PSU1, and VG4-A-PSU2
Order number VG4-A-TSkit
VGA-BUBBLE-PCLA Clear High-resolution Bubble for a Pendant Housing
Low-impact acrylic bubble
Order number VGA-BUBBLE-PCLA

VGA-BUBBLE-PTIA Tinted High-resolution Bubble for a Pendant Housing
Low-impact acrylic bubble
Order number VGA-BUBBLE-PTIA

VGA-BUBHD-CCLA Clear HD High-Resolution Acrylic Bubble for In-Ceiling AUTODOME cameras
Order number VGA-BUBHD-CCLA

VGA-BUBHD-CTIA Tinted HD High-Resolution Acrylic Bubble for In-Ceiling AUTODOME cameras
Order number VGA-BUBHD-CTIA

VG4-SFPSCKT Fiber Optic Ethernet Media Converter Kit
Ethernet media converter video transmitter/data receiver fiber optic kit
Order number VG4-SFPSCKT

SFP-2 Small Form-factor Pluggable Optical Interface
SFP Fiber Optic Module, Multi-mode, 1310 nm, 2 km (1.2 miles), 2 LC connectors
Order number SFP-2

SFP-3 Small Form-factor Pluggable Optical Interface
SFP Fiber Optic Module, Single-mode, 1310 nm, 20 km (12.4 miles), 2 LC connectors
Order number SFP-3

SFP-25 Small Form-factor Pluggable Optical Interface
SFP Fiber Optic Module, Multi-mode, 1310/1550 nm, 2 km (1.2 miles), 1 SC connector
Order number SFP-25

SFP-26 Small Form-factor Pluggable Optical Interface
SFP Fiber Optic Module, Multi-mode, 1550/1310 nm, 2 km (1.2 miles), 1 SC connector
Order number SFP-26