# **AUTODOME IP 7000 HD**

www.boschsecurity.com





The AUTODOME 7000 HD is an easy to install, highspeed 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 webbased 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



- High-resolution, full HD PTZ camera with 1080p25/30 (2MP) resolution and 20x zoom
- Intelligent Tracking and alarm rules engine with onboard Intelligent Video Analytics (IVA)
- Enhanced system flexibility with dual recording options (iSCSI, SD card) and dual power source options (High Power over Ethernet (High PoE) / 24 VAC)
- Fully configurable quad streaming with individually configurable HD streams, based on Bosch's Common Product Platform (CPP4)
- Easy and intuitive installation with multiple preconfigured user modes that allow users to select the camera configuration that is ideal for their applications

or gaming scenarios). The default 1080p25/30 mode delivers high resolution images with six times more details than a standard definition (SD) camera.

#### **Intelligent Defog**

Users can configure the mode to activate automatically when the global contrast enhancement method in the camera detects fog and adds light to the video image (and then deactivates when the fog clears or the scene changes).

# 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 from IVA/Tracking any background motion (moving trees, pulsating lights, and busy roads) in the scene without blocking the motion from the video.

#### **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.

#### 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  $\pm 0.1$  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.

#### **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.

#### 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 conformant**

The AUTODOME Series conforms to the ONVIF Profile S specification allowing easy integration with the conformant 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 conformant 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 various Bosch devices. This media converter module is designed to accept a wide-range of 10/100 Mbps SFP modules for use with Multimode or Single-mode 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.

#### **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.

#### Easy upgrade

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

#### 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, highresolution 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.

#### 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.

#### 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, 30, 50 and 60 frames/s

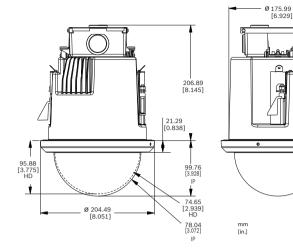
Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations, including latest versions of EN 50130-4, EN 55022:2006 inc. AL:2007, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, and EN 50121-4 (Railway applications)
Product Safety	Complies with UL, CE, CSA, EN, and IEC Standards 60950-1 & 22
Environmental	In-ceiling: IP54, Plenum rated (with acrylic bubble) IK10 rating when using optional bubble VGA- BUBBLE-IK10 (sold separately) Indoor/Outdoor Pendant: IP66, NEMA 4X
ONVIF Conformance	EN 50132-5-2

#### Notice

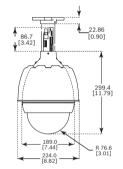
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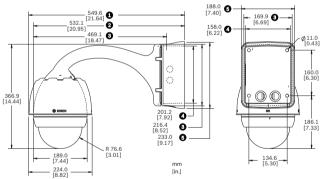
Conformity to EN 50130-4 One of the following power supply units is required to conform to the EN 50130-4 standard: VG4-A-PSU0, VG4-A-PSU1, VG4-A-PSU2, VG4-A-PA0, VG4-A-PA1, or VG4-A-PA2.

### Installation/configuration notes

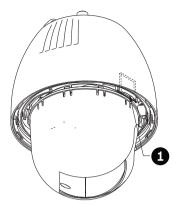


# AUTODOME 7000 Dimensions – In-ceiling





- AUTODOME 7000 Dimensions Pendant, Pipe
- 1 Power supply box and 4 Power supply box sunshield
- 2 Sunshield removed
- 5 Trim skirt
- 3 Mounting plate



AUTODOME 7000 - Slot for SD card

1 Slot for SD card

# Parts included

# In-Ceiling

Quantit y	Item
1	AUTODOME IP 7000 HD In-Ceiling camera with high- resolution acrylic bubble and white trim ring
1	Interface box
1	Optional black trim ring
1	Ceiling gasket (for IP54 conformance)
4	MAC address labels
1	Quick Guide

# **Outdoor Pendant**

Quantit y	Item
1	AUTODOME IP 7000 HD Pendant camera with clear acrylic bubble and sunshield
4	MAC address labels
1	Quick Guide

# Notes:

-The pendant can be converted to an indoor pendant by removing the sunshield.

-Mounting hardware and accessories are available separately.

# **Technical specifications**

Imager	1/2.8" progressive scan CMOS
Total sensor pixels	1945 x 1109 (2.16 M pixels)
Effective pixels	1080p: 1984 (H) x 1105 (V) (approximately 2.38M pixels) 720p: 1344 (H) x 745 (V)

Lens	20x optical zoom 4.9 mm (wide) to 94.0 mm (tele) (F 1.6 to F 3.5)		
Field of View	59.5° (wide) to 3.3° (tele)		
Focus	Auto (Sensitivity: normal, low), One-push AF, Manual, Interval AF, Zoom Trigger AF, Focus compensation in ICR on		
Digital Zoom	12x		
Sensitivity / Minimum	Illumination (typical)	30 IRE	50 IRE
Day Mode (Color)			
Fixed shutter 1/30, High Sensitivity mode On		0.06 lux	0.2 lux
Fixed shutter 1/30, High Sensitivity mode Off		0.26 lux	0.83 lux
Fixed shutter ¼, High Sensitivity mode On			0.03 lux
Night Mode (Black a	nd white)		
Fixed shutter 1/30, High Sensitivity mode On		0.033 lux	0.08 lux
Fixed shutter ¼, High Sensitivity mode On		0.0026 lux	

**Note:** In Black and White (Night) mode / low light situations, High Sensitivity turns on automatically.

Electronic Shutter Speed	1/25 sec to 1/15,000 sec (12 steps)
Signal-to-noise Ratio(SNR)	>50dB (AGC off)
Noise Reduction	Intelligent Dynamic Noise Reduction
Backlight Compensation (BLC)	On/Off
Intelligent Defog	Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)"
White Balance	Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto), One-push, Manual
Day/Night	Mechanical switchable IR filter (Auto/On/off) Monochrome

# Mechanical

	In-Ceiling	Pendant
Pan Range	360° cont.	360° cont.
Tilt Angle	1° above horizon	18° above horizon
Pre-position Speed	Pan: 400°/s Tilt: 300°/s	Pan: 400°/s Tilt: 300°/s
Pan/Tilt Modes		

Turbo Mode     (Manual Control)	Pan: 0.1°/s – 400°/s Tilt: 0.1°/s – 300°/s	
Normal Mode	0.1°/s-120°/s	0.1°/s-120°/s
Preset Accuracy	± 0.1° typ.	± 0.1° typ.

# Electrical

	In-Ceiling	Pendant
Input Voltage	High PoE (wit required to po PoE+ (IEEE 8	50/60 Hz; (class II) h Bosch Midspan (NPD-6001A); ower the heater) 02.3at, class 4 standard) (when used powering the heater)
Power Consumption, typical	24 W / 44 VA	60 W / 69 VA (heaters on) or 24 W / 44 VA (heaters off / without heater connected in power supply box for indoor applications)

# **Surge Suppression**

Protection on	Peak current 17 A, peak power 300 W
Alarm Inputs	(8/20 μs)
Protection on	Peak current 2 A, peak power 300 W
Alarm Outputs	(8/20 μs)
Protection on Relay Output	Peak current 7.3 A, peak power 600 W (10/1000 $\mu s)$
Protection on Power	Peak current 7.3 A, peak power 600 W
Input (Dome)	(10/1000 μs)
Protection on Power Output (Arm Power Supply)	Peak current 21.4 A, peak power 1500 W (10/1000 µs)
10/100 Ethernet	Peak current 14 A, peak power 200 W
Data Lines	(8/20 µs)

#### **Software Control**

Camera Setup/ Control	version 7.0 or lat Manager, Bosch <sup>v</sup>	(such as Internet E: er), Bosch Configu /ideo Management ecording Station (E nt (BVC)	ration System
Software Update	Network firmwar	e upload	
Network			
Video compression	H.264 (ISO/IEC 14496-10), M-JPEG		
Encoding / Streaming			
Н.:	H.264 MJPEG		
	Scenario		
Stream 1	Stream 2	Stream 3	Stream 4

1080p				
1080p				
1080p				
1080p				
720p				
720p				
720p				
1080p				
Data Rate (Range) 9.6 kbps to 10 Mbps (per stream)				

Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/ RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, 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
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, alarm/events/schedule recording
Fiber Optic Kit	
VG4-SFPSCKT	
Description	Fiber Optic Ethernet Media Converter kit <sup>6</sup> . 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-A-PSU1, or a VG4-A-PSU2 power supply box with supplied mounting hardware
6. Kit available separately and must be	installed inside the AUTODOME power supply box.

# 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.)			
• SFF	• SFP-25, SFP-26		63.8 x 13	3.5 x 8.5 mm (2.5	x 0.5 x 0.3 in.)
Weight (all SFP modules)			0.23 kg (.05 lb)		
	Туре	С	onnector	Wavelength (transmit / receive)	Max. Distance
SFP-2	MMF	D	uplex LC	1310 nm / 1310 nm	2 km (1.2 miles)
SFP-3	SMF	D	uplex LC	1310 nm / 1310 nm	20 km (12.4 miles)
SFP-25	MMF	S	ingle SC	1310 nm / 1550 nm	2 km (1.2 miles)
SFP-26	MMF	S	ingle SC	1550 nm / 1310 nm	2 km (1.2 miles)
Fiber Comp	oatibility				
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.			
		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					
Sectors/Tit	ling	16 independent sectors with a 20-character title/sector		0-character	
Masking	king 24		4 individually configurable privacy masks		
Pre-positio	ns	256, each with a 20-character title		tle	
Guard Tour	S	<ul> <li>Two (2) types of tours:</li> <li>Recorded tours - two (2)</li> <li>Preset tour - one (1), consisting of u 256 scenes, consecutively</li> </ul>		nsisting of up to	
Supported Languages		English, Chinese, Dutch, French, German, Italian, Japanese, Polish, Portuguese, and Spanish		uese, and	
Note: Czech and Slovak languages are also supported.					

# **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)	Pendant (with acrylic bubble)
Ingress Protection Rating/ Standard	IP54, Plenum rated	IP66, NEMA 4X
Operating Tempera- ture (with heater wired)	-10 to +40 °C (+14 to +104 °F)	-34 to +74 °C (-30 to +165 °F) (in accordance with NEMA TS 2-2003 (R2008), section 2.1.5.1) -40 to +55 °C (-40 to +131 °F) (continuous operation)
Operating Tempera- ture (without heater wired)		-10 to +55 °C (+14 to +131 °F) (continuous operation)
Storage Tempera- ture	-40 to +60 °C (-40 to +140 °F)	-40 to +60 °C (-40 to +140 °F)
Operating Humidity	0% to 90% RH, non-condensing	0% to 100% RH, condensing <sup>7</sup>

7 For outdoor pendants only, condensing humidity implies moisture can condense to water droplets.

NEMA TS 2-2003 (R2008), para 2.1.5.1 using fig. 2.1 test profile -34 °C to +74 °C (-30 °F to +165 °F)

**Note:** TS2 conformance applies to outdoor models only.

#### Construction

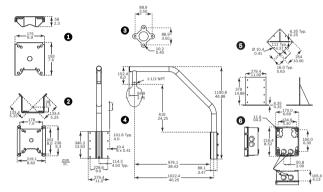
Dimensions	See dimensional drawings
Weight	
In-ceiling	2.59 kg (5.71 lb)
<ul> <li>Indoor/Outdoor Pendant</li> </ul>	3.07 kg (6.77 lb)
Bubble Size	153.1 mm diameter (6.03 in.)
Construction Material	
Housing	In-ceiling: Magnesium Pendant: Cast aluminum
Bubble	In-ceiling: HD High-resolution acrylic Pendant: High-resolution acrylic
Standard Color	White (RAL 9003)
Standard Finish	Powder coated, sand finish

# **Mounts/Accessories**

# Bubbles

Buddies	
In-ceiling	
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
Clear rugged IK10-rated nylon	VGA-BUBBLE-IK10
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	
Corner Mounting Plate	VG4-A-9542
Mast (Pole) Mounting Plate	VG4-A-9541
Pendant Pipe Mounts	
Pipe Mount Cap	VG4-A-9543
Pendant Roof Mounts	

Roof (Parapet) Mount (VG4-A-9543 Pipe Mount Cap required. Available separately.)	VGA-ROOF-MOUNT (1.5-inch NPT tapered male threads)
Optional Mounting Plates for Roof Mounts	
Flat Roof Adapter for Parapet Mount	LTC 9230/01
In-ceiling Support Kits	
Bracket for suspended or drop ceilings	VGA-IC-SP
Power Supplies	
High PoE Midspan 60W, single port, AC in	NPD-6001A
Outdoor Power Supply Box, no transformer	VG4-A-PSU0
Outdoor Power Supply Box (120/230 VAC Transformer)	VG4-A-PSU1 / VG4-A-PSU2
Fiber Optic Kit	VG4-SFPSCKT



#### AUTODOME Dimensions - Mounts

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

### **Ordering information**

#### AUTODOME IP 7000 HD (20x In-Ceiling)

Superb quality indoor, in-ceiling PTZ dome camera with 1080p HD resolution; 20x optical zoom; IVA; PoE; iSCSI/SD; multiple pre-programmed user modes; H. 264 quad-streaming (CPP4); tinted bubble. Rated IP54.

Order number VG5-7220-CPT5

#### AUTODOME IP 7000 HD (20x Indoor/Outdoor Pendant)

Superb quality indoor/outdoor pendant PTZ dome camera with 1080p HD resolution; 20x optical zoom; IVA; PoE; iSCSI/SD; multiple pre-programmed user modes; H.264 quad-streaming (CPP4); clear bubble. Rated IP66.

Order number VG5-7220-EPC5

#### Accessories

#### High PoE Midspan, 60 W, 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

Power supply, 24 VAC input, for a PTZ camera in the AUTODOME Series. White, aluminum enclosure with cover, rated IP66 and IK 08. 100 W output. Optional trim skirt (sold separately). Order number **VG4-A-PSU0** 

# VG4-A-PSU1 120 VAC Power Supply Unit

Power supply with transformer, 120 VAC input, for an AUTODOME or MIC7000 Series PTZ camera. White, aluminum enclosure with cover, rated IP66 and IK 08. 100 W output. Optional trim skirt (sold separately). Order number **VG4-A-PSU1** 

#### VG4-A-PSU2 230 VAC Power Supply Unit

Power supply with transformer, 230 VAC input, for an AUTODOME or MIC7000 Series PTZ camera. White, aluminum enclosure with cover, rated IP66 and IK 08. 100 W output. Optional trim skirt (sold separately). Order number **VG4-A-PSU2** 

#### 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 an AUTODOME pendant arm or a DINION 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 pendant arm or a DINION 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

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

#### VGA-SBOX-COVER Cover for AutoDome Power Supply Boxes

Order number VGA-SBOX-COVER

#### VG4-A-TSKIRT 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-TSKIRT** 

# VGA-BUBBLE-CCLA Clear High-resolution Bubble for an In-ceiling Housing Low-impact acrylic bubble

Order number VGA-BUBBLE-CCLA

#### VGA-BUBBLE-CTIA Tinted High-resolution Bubble for an In-ceiling Housing Low-impact acrylic bubble

Order number VGA-BUBBLE-CTIA

#### 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-BUBBLE-IK10 IK10 Bubble for pendant housing IK10-rated bubble qualified for use with AUTODOME 7000 HD cameras with pendant housings Order number VGA-BUBBLE-IK10

VG4-SFPSCKT Fiber Optic Ethernet Media Converter Kit Ethernet media converter video transmitter/data receiver fiber optic kit for AUTODOME cameras and for MIC-IP-PSU for MIC analog cameras. 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** 

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