AUTODOME 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



- High-resolution, full HD PTZ camera with 1080p25/30 (2MP) resolution and 20x zoom for capturing fine details
- New Intelligent Tracking and alarm rules engine with on-board 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 new 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

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). Images under these conditions may have a yellowish tint, which may 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 AUTODOME 7000 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. AUTODOME 7000 in-ceiling models and indoor/outdoor pendant models used in indoor applications (without heaters on) 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 (for in-ceiling models or indoor/ outdoor pendant models in indoor applications), 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.

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.

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 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 AUTODOME Series 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: 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 EN 50130-4, EN 55022 Class A, EN 61000-3-3, EN 61000-6-1, EN61000-6-2, 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

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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.

Parts included

In-ceiling

Quantity	Item
1	AUTODOME 7000 In-Ceiling camera with acrylic bubble and white trim ring
1	Interface box
1	Optional black trim ring
1	Ceiling gasket (for IP54 conformance)

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

Outdoor Pendant

Quantity	Item
1	AUTODOME 7000 Pendant camera with clear acrylic bubble and sunshield
1	Product DVD (which includes complete Operation Manual)
1	Packet of printed Safety literature

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

Imager	1/2.8-intype CMOS	
Number of Pixels	Effective: Approximately 3.27 megapixels Delivered: Approximately 2 megapixels	
Aspect Ratio	HD: 16:9	
Lens	20x optical zoom,(4.7 to 94 mm)	
Focus	One-push (default), Automatic (normal, low), Manual	
lris	Automatic with manual override (F1.6 to F3.5)	
Field of View		
• 1080p Mode	2.9° (tele) to 55.4° (wide)	
• 720p Mode	2.0 (tele) to 37.6 (wide)	
Minimum Working Distance	Day mode: 300mm (wide) to 1000mm (tele) Night mode: 10mm (wide) to 1000 mm (tele)	
Gain Control	Automatic/Manual (-3 to +28 dB, +2 dB steps/16 steps)	
Digital Zoom	12x	
Sensitivity (typical) ¹	30 IRE ²	50 IRE ²
Day Mode		
SensUP Off (1/30 [1/25] shutter); High Sensitivity Off	0.8 lux (0.074 fc)	1.7 lux (0.158 fc)
SensUP On, max. (0.25 sec. shutter); High Sensitivity On ³	0.04 lux (0.004 fc)	0.08 lux (0.007 fc)
Night Mode		

Night Mode

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 ³	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	

1. F1.6, maximum AGC. Normal light source (Halogen lamp).

2. Tinted bubble adds 0.8 f-stop loss.

3. Measured using ND1 + ND4 filters and recalculated with the transmission factor at 0.0025.

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 Contro 		1°/s – 400°/s 1°/s – 300°/s

(Maridai Control)	1111: 0.1 / 5	00075
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	21-30 VAC, 50/60 Hz (class II); High PoE (with Bosch NPD-6001A Midspan); PoE+ (IEEE 802.3at, class 4 standard)	21-30 VAC, 50/60 Hz; (class II) High PoE (with Bosch NPD-6001A Midspan) or [PoE+ (IEEE 802.3at, class 4 standard)] ⁴
Power Consumption, typical	24 W / 44 VA	60 W / 69 VA (heaters on) or 24 W / 44 VA (heaters off) 5

4. When used indoors, not powering heater.

5. 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	Via web browser (such as Internet Explorer version 7.0 or later), Bosch Configuration Manager, Bosch Video Management System (BVMS), or Bosch Video Client (BVC)
Software Update	Network firmware upload

Network

TILED COMPLESSION FILE TA450-10, N-5FE	Video compression	H.264 (ISO/IEC 14496-10), M-JPEG
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Encoding / Streaming

	H.264		MJPE	G	
	Scenario				
	Stream 1	Stream 2	Stream 3	Stream 4	
1	Full HD 1080p30	Full HD 1080p5	l-frame only from Stream 1	1080p	
2	Full HD 1080p30	HD 720p10	l-frame only from Stream 1	1080p	
3	Full HD 1080p30	Downscaled stream	l-frame only from Stream 1	1080p	
4	Full HD 1080p30	Copy of Stream 1	l-frame only from Stream 1	1080p	
5	HD 720p60	HD 720p8	l-frame only from Stream 1	720p	
6	HD 720p30	HD 720p30	l-frame only from Stream 1	720p	
7	HD 720p30	Downscaled stream	l-frame only from Stream 1	720p	

8	Downscaled stream	Downscaled stream	l-frame only from Stream 1	1080p	
GC	OP Structure	IP, IBP, IBBP			
Da	ta Rate (Range)	9.6 kbps to 10 M	bps (per stream)		
Ov	erall IP Delay	240 ms			
Re	solutions (H x V)				
		HD Resolution	ons		
	• 1080p HD	1920 x 1080			
	• 720p HD	1280 x 720	1280 x 720		
		Down-scaled SD	streams		
	• 432p SD	768 x 432			
	• 288p SD	512 x 288			
	• 144p SD	256 x 144			
	Corridor mode	400 x 720	400 x 720		
	D1 4:3 cropped				
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, 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			
	lvanced tworking	IPv6, QoS			
Au	dio				
• 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)			
Lo	ocal Storage				
Me	emory Card Slot	User-supplied SD/SDHC/SDXC memory card (maximum 2TB – SDXC)			
Re	cording	Continuous recording of video and audio			

Fiber Optic Kit					
VG4-SFPSC	жт				
Description		R	Fiber Optic Ethernet Media Converter kit ⁶ . Requires a small form-factor pluggable (SFP) module (sold separately).		
Data Interfa	ace	Ef	thernet		
Data Rate		IE Fi	10/100 Mbps IEEE 802.3 Compliant Full Duplex or Half Duplex Electrical Port Full Duplex Optical Port		
Compatible	Receiver	С	NFE2MC		
Installation		V p	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 sep	arately and must be	install	ed inside the AUTO	OOME power supply box.	
SFP Module	es				
Descriptior	1		Interchangeable modules available for use with MMF or SMF optical fiber.		
Data Interfa	ace	E	Ethernet		
Data Rate			10/100 Mbps IEEE 802.3 Compliant		
Mechanical					
Dimensions	s (LxWxH)				
• SFF	-2 and SFP-	3	55.5 x 13	8.5 x 8.5 mm (2.2	x 0.5 x 0.3 in.)
• SFF	-25, SFP-26	ò	63.8 x 13.5 x 8.5 mm (2.5 x 0.5 x 0.3 in.)		
Weight (all modules)	SFP		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	Single SC		1310 nm / 1550 nm	2 km (1.2 miles)
SFP-26	MMF	Single SC		1550 nm / 1310 nm	2 km (1.2 miles)
Fiber Compatibility					
Optical Fiber Compatibility, MMF		sı b	ubtract 4 dB	MF. For 50/125 from the specifie Must meet or exc T G.651.	d optical

Optical Fiber Compatibility, SMF	$810/125\mu\text{m}$ 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/Titling	16 independent sectors with a 20-character title/sector
Masking	24 individually configurable privacy masks
Pre-positions	256, each with a 20-character title
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)	Pendant (with acrylic bubble)
Ingress	IP54, Plenum rated	IP66, ^{, NEMA} 4X ⁷
Protection Rating/ Standard	 NEMA 4X for: Access to Hazardous Ingress of solid forei circulating dust, sett Ingress of water (dri hosedown and splas Corrosive agents 	gn objects (falling dirt, tling dust) pping and light splashing,

Operating Temp.	-10 ℃ to 40 ℃ (14 ℉ to 104 ℉)	-40 °C to 55 °C (-40 °F to 131 °F) or -10 °C to 55 °C (14 °F to 131 °F) ⁸
Storage Temp.	-40 °C to 60 °C (-40 °F to 140 °F)	-40 °C to 60 °C (-40 °F to 140 °F)
Humidity	0% to 90% relative, non- condensing	0% to 100% relative, condensing

Meets requirements for NEMA 4X, except impact test, with use of an acrylic bubble.
 Without heater connected in power supply box for indoor applications.

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	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

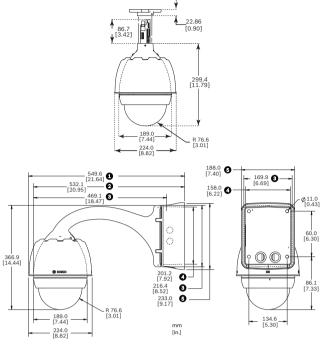
Mounts/Accessories

Bubbles				
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			

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				
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			
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			

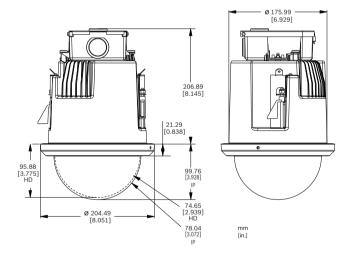


AUTODOME 7000 Dimensions - Pendant, Pipe

- 1 Power supply box and sunshield

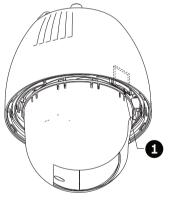
4 Power supply box

- 2 Sunshield removed
- 5 Trim skirt
- 3 Mounting plate



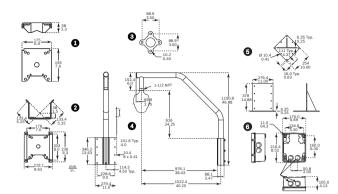
AUTODOME 7000 Dimensions – In-ceiling

Dimensional Drawings



AUTODOME 7000 - Slot for SD card

1 Slot for SD card



AUTODOME Dimensions - Mounts

- 1 Mast Mount
- 4 Roof Mount
- 2 Corner Mount
- 3 Pipe 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

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**

Order number VG4-A-PSUI

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 a 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-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-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

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

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