

AUTODOME IP 5000 HD

www.boschsecurity.com**BOSCH**

Invented for life



- ▶ Choice of 720p25/30 or 1080p25/30 HD resolution, 30x optical zoom with Bosch's imaging platform specially designed and tuned for accurate color reproduction in scenes with varying lighting levels from day to night
- ▶ Identification of people up to 190 m (623 ft) without loss of any details
- ▶ High-speed PTZ control for tracking people and vehicles in large indoor/outdoor scene
- ▶ Exceptional low bit rates in static scenes to save the storage cost by up to 50% compared to any equivalent dome in the market
- ▶ ONVIF Profile S and third party software support for easy integration with VMS

With AUTODOME IP 5000 HD cameras, you can capture full details of your surveillance space while effectively tracking moving targets. The camera uses robust algorithms to ensure the subject stays in full focus when the camera is zooming in or tracking to assist security staff in identifying activity details in the scene. The 30x zoom lens with 720p25/30 or 1080p25/30 HD resolution ensures a sufficient magnification ratio to identify people easily from a distance of up to 190 m (623 ft) for 1080p models and up to 125 m (410 ft) for 720p models. The AUTODOME IP family makes it easier for you to stay in control of your security even when you're on the go. When used in combination with the Video Security App from Bosch, the camera supports Dynamic Transcoding technology, which allows you to stream high-resolution H.264 video, to pan/tilt/zoom the camera, and to search recorded clips remotely through mobile devices such as smart phones or tablets, all on a low-bandwidth network connection (up to 50% less than other H.264 PTZ cameras).

The camera provides complete network-based control of all functionality including pan/tilt/zoom operation, presets, tours, alarms, and web-based configuration of all camera settings.

Functions

Superior imaging performance

Designed using Bosch's digital imaging platform, AUTODOME IP 5000 HD cameras deliver high-resolution, zoomed-in views for indoor and outdoor applications with large coverage areas.

Three (3) pre-programmed user modes

The camera comes with three (3) pre-tuned scene modes to match various lighting conditions found in indoor scenes. Users can complete the configuration without going through multiple imaging settings.

- Indoor: general day-to-night changes without sun highlights and street lighting
- Outdoor: general day-to-night changes with sun highlights and street lighting
- Vibrant: enhanced contrast, sharpness and saturation

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.

Superior privacy masking

For installations in public places where privacy of private property is of high concern, 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.

PTZ drive and mechanism

The camera supports 256 pre-positions and two styles of Guard Tours: Preset and Record/Playback. The preset tour has capability for up to 64 pre-positions with a configurable dwell time between pre-positions and can be customized as to the order and frequency each preset is visited. The camera also provides support for two (2) recorded tours, which have a total duration of 15 minutes of movements. These are recorded macros of an operator's movements, including pan, tilt, and zoom activities, and can be played back in a continuous manner. Pan and tilt preset repeatability are accurate to within ± 0.2 degrees to ensure that the correct scene is captured every time. The camera delivers maximum pan speed of 300 degrees per second and maximum tilt speed of 200 degrees per second. The camera is capable of manual speeds (pan and tilt) of 0.1 to 120 degrees per second. The camera provides a pan range of up to 360 degrees continuous rotation. The camera's tilt angle is from 0° to $\pm 90^\circ$.

Intelligent Dynamic Noise Reduction reduces bandwidth and storage requirements

The camera uses Intelligent Dynamic Noise Reduction which actively analyzes the contents of a scene and reduces noise artifacts accordingly. The low-noise image and the efficient H.264 compression technology provide clear images while reducing bandwidth and storage by up to 50% compared to other H.264 cameras. This results in reduced-bandwidth streams that still retain a high image quality and smooth motion. The camera provides the most usable image possible by cleverly optimizing the detail-to-bandwidth ratio.

Bitrate optimized profile

The average typical optimized bitrate in kbits/s for various frame rates is shown in the table:

| IPS | 1080p | 720p | 480p |
|-----|-------|------|------|
| 30 | 2600 | 1300 | 1000 |

| | | | |
|----|------|------|-----|
| 15 | 2100 | 1100 | 800 |
| 10 | 1800 | 1000 | 700 |
| 5 | 1250 | 600 | 450 |
| 2 | 500 | 270 | 200 |

Actual bitrate may vary depending on the scene complexities and encoding configurations.

Area-based encoding

Area-based encoding is another feature which reduces bandwidth. Compression parameters for up to eight user-definable regions can be set. This allows uninteresting regions to be highly compressed, leaving more bandwidth for important parts of the scene. User can configure encoding regions for every configured preset (preposition/scene), to increase or decrease the encoding quality for selectable areas of the video image. These regions give better control of the bit rate. Important parts of the scene (identified as objects in the GUI) are encoded at high resolution and therefore have an enhanced encoding quality. Less important parts (such as the sky and trees in the background, all identified as backgrounds in the GUI) are encoded at lower quality and therefore have a decreased encoding quality.

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).

Advanced streaming

The camera offers advanced streaming capabilities so that you can configure the camera to take advantage of the latest network technology. The camera is designed on an efficient and powerful H.264 encoding platform capable of delivering high-quality HD video with very low network load. The new intelligent encoding capabilities drop the bandwidth consumption to extremely low levels if the camera detects no motion in the scene. The camera is capable of quad streaming which allows the camera to be configured to deliver independent, configurable streams for live viewing, recording, or remote monitoring on over bandwidth-constrained networks.

Recording and storage management

A memory card (a maximum of 32 GB microSDHC / 2 TB microSDXC) 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.

Alarm handling and Motion Detection

A wide range of configuration options is available for alarms signaling the camera. A built-in algorithm for detecting movement on presets can also be used for alarm signaling, or the camera can interface to an external alarm source using the built-in alarm I/O ports. In addition, a user can also schedule virtual alarms. Any of the available external alarm, motion alarm or scheduled virtual alarms can then be used to trigger a relay output or to force the camera to do certain tasks (for example, to start a guard tour or to go to a preset location).

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.

Complete viewing software

There are many ways to access the camera's features: using a web browser, with the Bosch Video Management System, with the free-of-charge Bosch Video Client, with the Video Security App, or via third-party software.

Bosch Video Security app

The AUTODOME IP cameras fully support Dynamic Transcoding technology from Bosch, which – in combination with the Video Security App from Bosch – provides 24/7 remote access to camera controls, live video streams, recordings and HD images from anywhere, regardless of available bandwidth. Dynamic Transcoding automatically adjusts the bit rate to the available bandwidth to ensure smooth video streaming. When the video is paused at an incident, a full HD still image is shown instantly. To gain all benefits of Dynamic Transcoding, simply expand the IP video surveillance system with either a DIVAR IP recording solution or a VIDEOJET XTC from Bosch.

System integration

The camera conforms to the ONVIF Profile S specifications. This ensures interoperability between network video products regardless of manufacturer. Third-party integrators can easily access the internal feature set of the camera for integration into large projects. Visit the Bosch Integration Partner Program (IPP) website (ipp.boschsecurity.com) for more information.

Ease of installation and servicing

The camera has been designed for quick and easy installation, a key feature from Bosch IP video security products.

Bosch designed the camera with the knowledge that field cables and mounts are installed before the camera is mounted. The new installation concept allows a single person to connect the cables directly to the camera without re-routing cables. The camera is easily secured to the mount with a single screw. The

three-step installation process can save up to 5 minutes per camera installation compared to any conventional PTZ dome. 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 camera comes fully assembled with a sunshield and ready for wall or pipe applications with the proper mounting hardware (sold separately). 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.

Dual power options

All models can be powered by a IEEE 802.3at PoE+ switch or a 24 VAC power supply. When powered using 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 PoE+.

Easy upgrade

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

Unsurpassed reliability

Certifications and approvals

HD standards

- Complies with the SMPTE 274M-2008 Standard in:
 - Resolution: 1920x1080
 - Scan: Progressive
 - Color representation: complies with ITU-R BT.709
 - Aspect ratio: 16:9
 - Frame rate: 25 and 30 frames/s
- Complies with the 296M-2001 Standard in:
 - Resolution: 1280x720
 - Scan: Progressive
 - Color representation: complies with ITU-R BT.709
 - Aspect ratio: 16:9
 - Frame rate: 25 and 30 frames/s

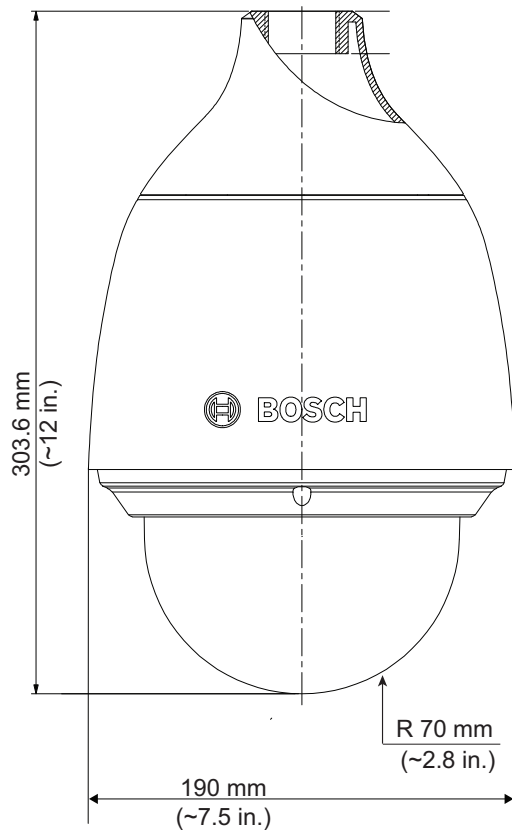
| Marking | Applicable Standard |
|-------------------|--|
| cULus | <ul style="list-style-type: none"> UL60950-1/-22 (ed 2) (Includes CSA 22.2 No. 60950-1/-22) |
| FCC Part 15 (USA) | <ul style="list-style-type: none"> 47CFR Part 15 ICES-003 (Canada) |

| | |
|-------------------------|--|
| CE (Europe) | Electromagnetic Compatibility (EMC) Directive <ul style="list-style-type: none"> • EN 55022:2010 • EN 50130-4:2011 • EN 61000-3-2:2014 • EN 61000-3-3:2013 Product Safety: Low Voltage Directive (IECEE CB scheme certificate and report are required) <ul style="list-style-type: none"> • EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 (with national differences) • IEC 60950-1/-22 (ed 1) |
| Other labels / markings | <ul style="list-style-type: none"> • RCM |

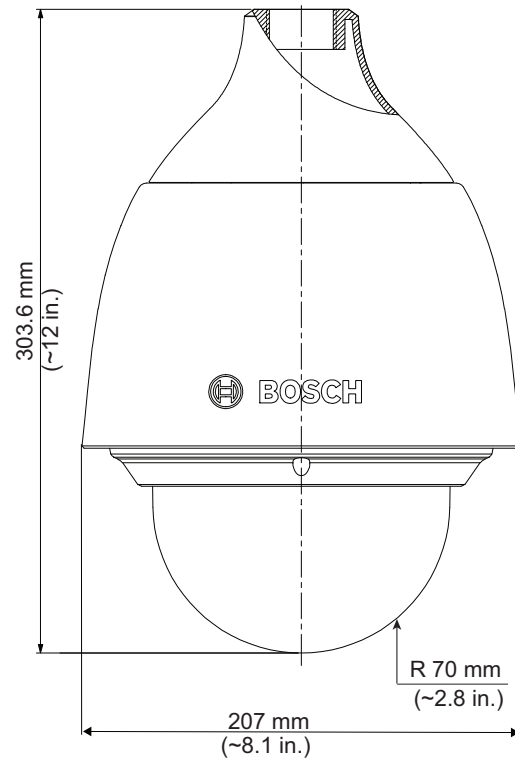
Other requirements are defined in the *Technical specifications* section.

| Region | Certification |
|--------|--------------------------|
| Europe | CE - AUTODOME IP 5000 HD |
| USA | UL - AUTODOME IP 5000 HD |

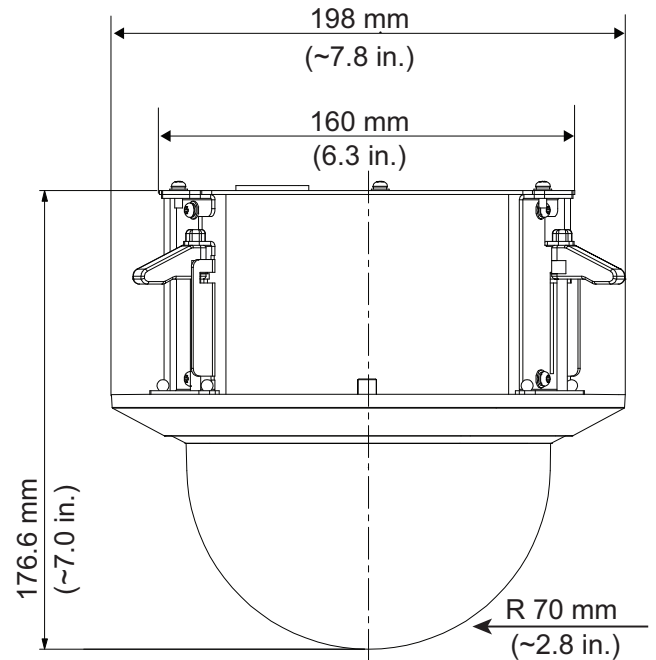
Installation/configuration notes



Indoor pendant



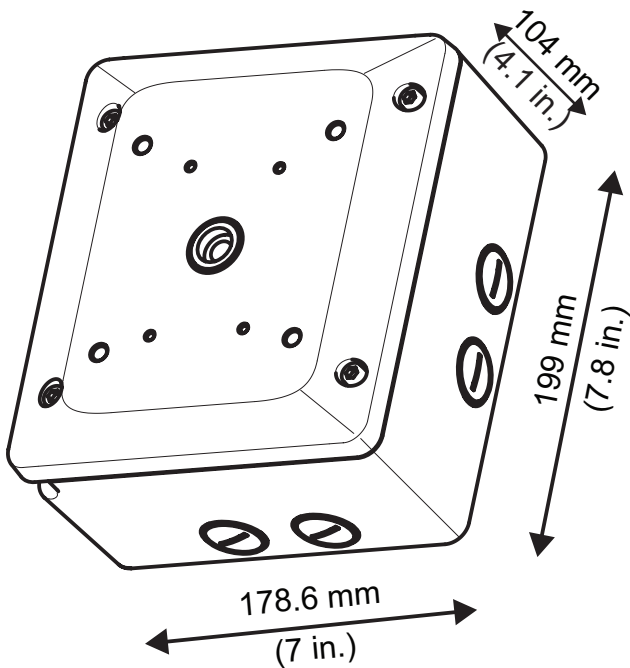
Outdoor pendant



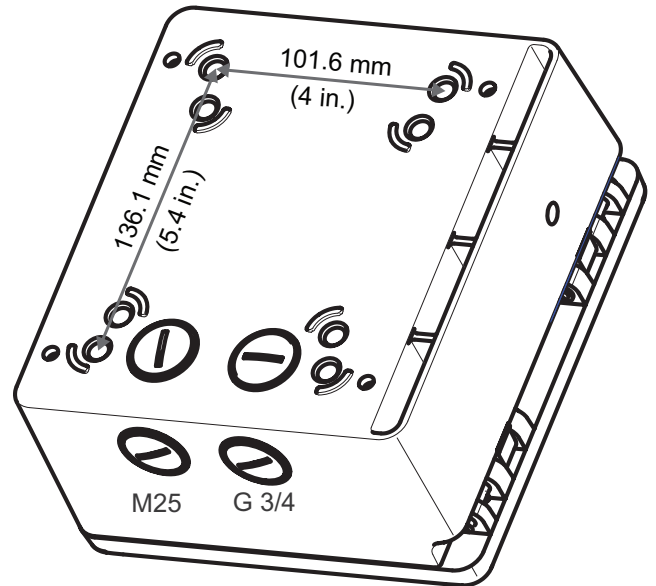
In-ceiling



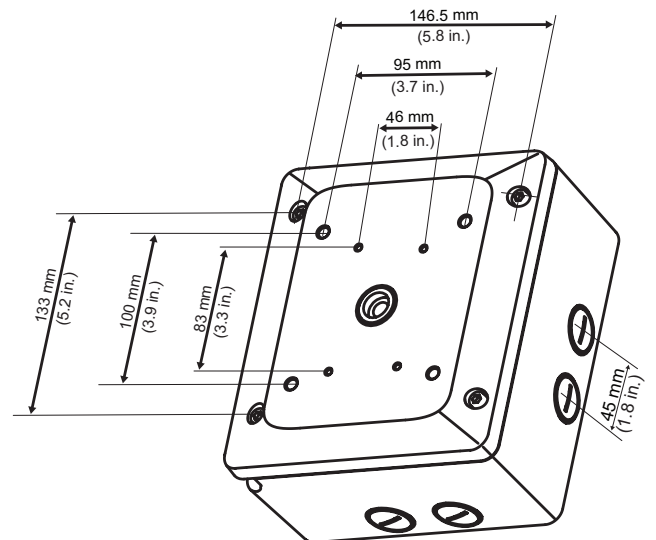
Mount Matrix



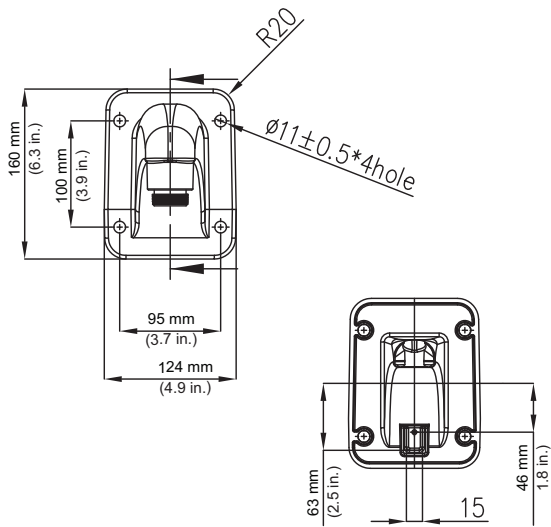
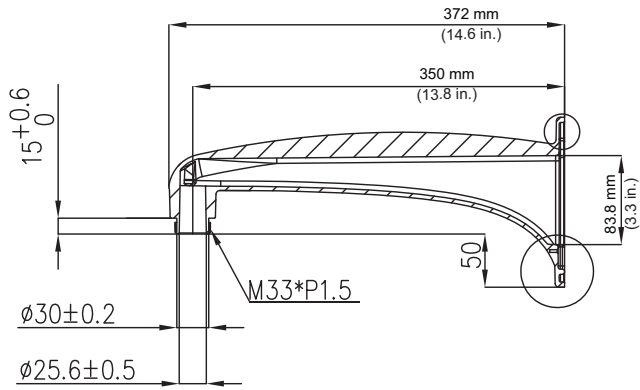
VDA-AD-JNB dimensions (outer box)



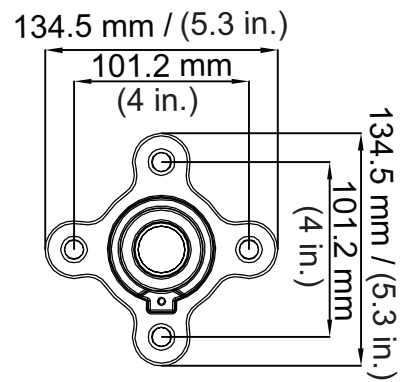
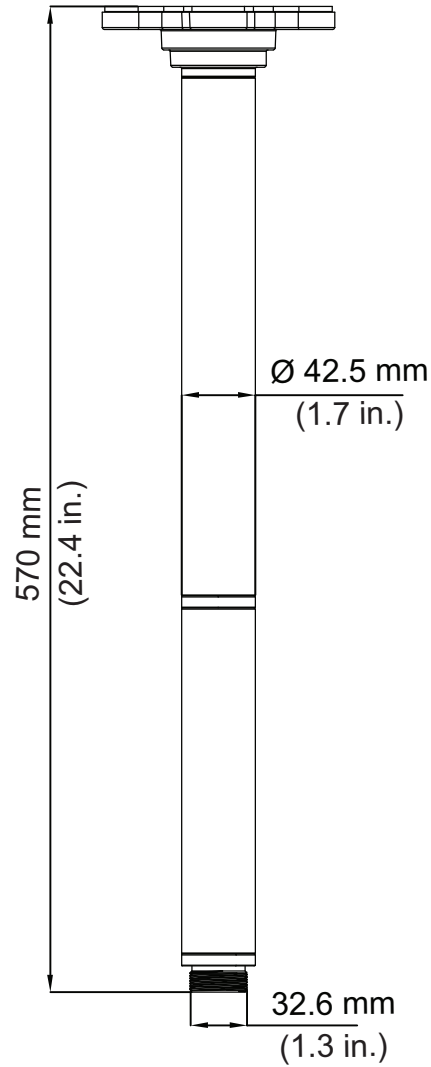
VDA-AD-JNB mounting hole measurements - back/rear



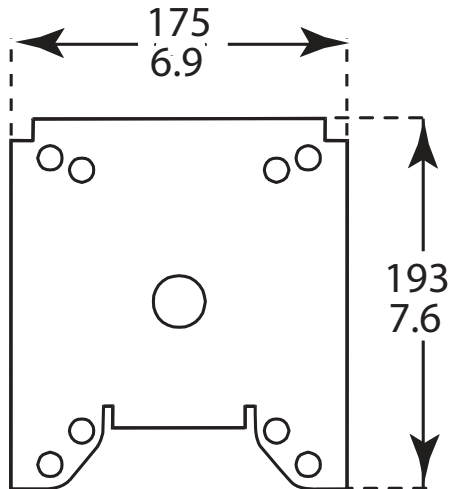
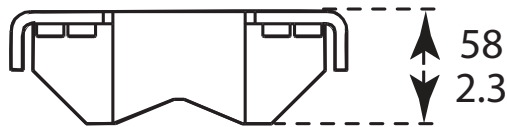
VDA-AD-JNB mounting hole measurements - front



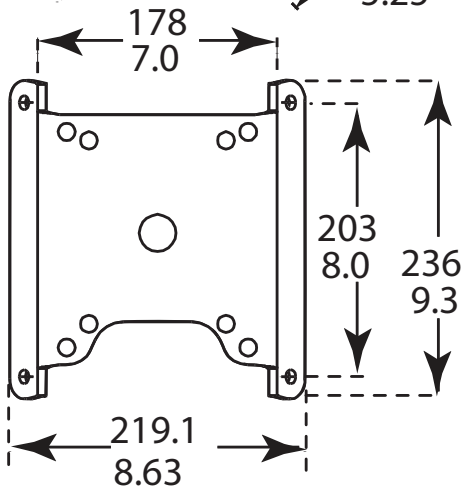
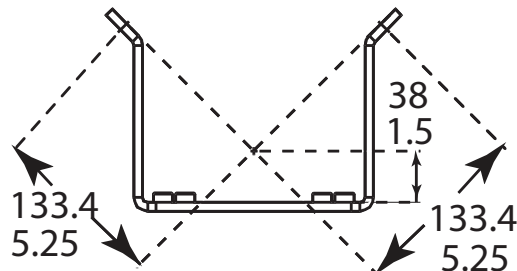
WMB dimensions



Pipe dimensions

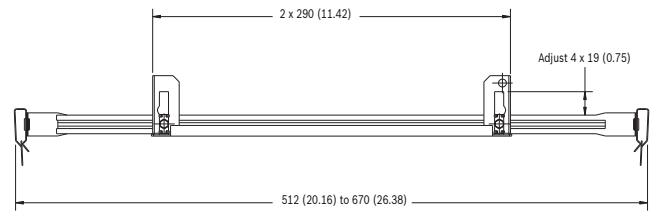


VG4-A-9541_Pole-Mount-Adapter_dimensions

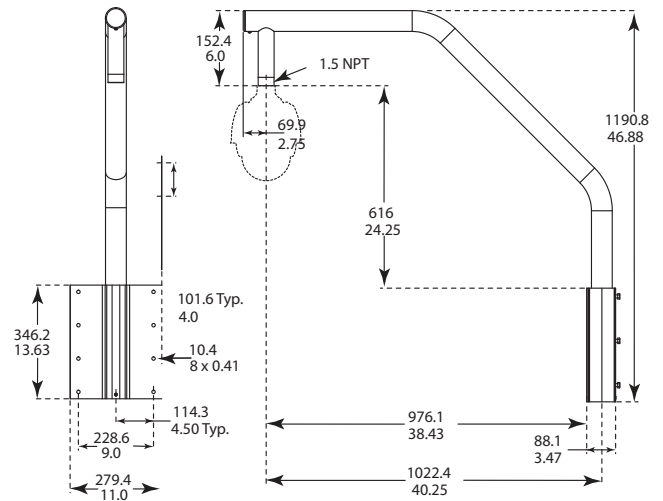


VG4-A-9542_Corner-Mount-Adapter_dimensions

mm
in.



VGA-IC-SP dimensions



VGA-ROOF-MOUNT dimensions

Parts included

- 1 AUTODOME IP 5000 HD camera
- 1 Mounting template (in-ceiling model only)
- 1 Screwdriver, T15 Torx
- 4 MAC address labels
- 1 Quick Installation Guide

Technical specifications

Full product functionality is expected for specified conditions under general requirements for the operating temperature range and power supply.

AUTODOME IP 5000 HD camera

| | |
|---------------------|---|
| Imager | 1/2.8" progressive scan CMOS |
| Total sensor pixels | 2.48M pixels |
| Effective pixels | 1080p: 1984 (H) x 1105 (V) (approximately 2.43M pixels) 720p: 1344 (H) x 745 (V) |
| Lens Focal Length | 30x Zoom 4.3 mm–129 mm (F 1.6 - F 5.0) |
| Field of View (FOV) | 2.3°–65° |
| Focus | Automatic with manual override |

| | | |
|---|--|---------------|
| Iris | Automatic | |
| Digital Zoom | 16x | |
| Sensitivity / Minimum Illumination (typical) | 30 IRE | 50 IRE |
| Day Mode (Color) | | |
| SensUp off | 0.22 lux | 0.35 lux |
| SensUp on (1/7.5) | 0.04 lux | 0.08 lux |
| Night Mode (Black and white (monochrome)) | | |
| SensUp off | 0.044 lux | 0.07 lux |
| SensUp on (1/7.5) | 0.008 lux | 0.016 lux |
| Electronic Shutter Speed | 1/25 sec to 1/15,000 sec (12 steps) | |
| WDR | 76dB (DWDR) | |
| Signal-to-noise Ratio (SNR) | >50dB (AGC off) | |
| Noise Reduction | Intelligent Dynamic Noise Reduction | |
| Backlight Compensation (BLC) | On/Off | |
| Intelligent Defog | Automatically adjusts parameters for best picture in foggy or misty scenes (switchable)" | |
| White Balance | Standard Auto, Sodium Vapor Auto, Basic Auto, Manual, Hold, Dominant Color Auto | |
| Day/Night | Mechanical switchable IR filter (Auto/On/off) Monochrome | |

Mechanical

| | |
|-----------------|---|
| Pan/Tilt Modes | Normal: 0.1°/s - 120°/s Turbo: Pan: 0.1°/s - 300°/s; Tilt: 0.1°/s - 200°/s |
| Preset Speed | Pan: 300°/s Tilt: 200°/s |
| Pan Range | 360° continuous |
| Tilt Range | 0° to ±90° |
| Preset Accuracy | ± 0.2° typ. |
| Presets | 256 |
| Tours | Two (2) types of tours: • Recorded tours – two (2), maximum total duration 15 minutes (depending on the amount of commands sent during recording) • Preset tour – one (1) consecutive, one (1) custom |

Electrical

| | |
|-------------------|--|
| Input Voltage | 24 VAC and POE+ |
| Power Consumption | 24 VAC: 14W / 24W (Heater on) POE+ : 13W (Heater not supported) |

Network

| | |
|----------------------|---|
| Video compression | H.264 (ISO/IEC 14496-10) M-JPEG |
| Streaming Capability | Quad Stream (2x H.264, 1x MJPEG, 1x i-Frame only) |
| Frame Rate | 1080P (1 - 25/30fps) 720P (1 - 25/30fps) |

| When the option in field "Property" for Stream 1 is: | The available options in field "Property" for Stream 2 are: |
|--|---|
| H.264 MP SD | - H.264 MP SD |
| H.264 MP 720p fixed | - H.264 MP SD - H.264 MP 720p fixed - H.264 MP 400x720 upright (cropped) - H.264 MP D1 4:3 (cropped) - H.264 MP 1280x960 (cropped)* - H.264 MP 640x480 |
| H.264 MP 1080p fixed* | - Copy Stream 1* - H.264 MP SD* - H.264 MP 720p8/10 fixed* - H.264 MP 1080p4/5 fixed* - H.264 MP 400x720 upright (cropped)* - H.264 MP D1 4:3 (cropped)* - H.264 MP 640x480 |
| H.264 MP 720p50/60 fixed | - Copy Stream 1* - H.264 MP SD* - H.264 MP 720p6/7 fixed* - H.264 MP 400x720 upright (cropped)* - H.264 MP D1 4:3 (cropped)* - H.264 MP 640x480 |

*This option is available for 1080p models only.

| | |
|------------------------|---|
| Non-recording profiles | Two (2) streams, I-frame only Options are: - HD Image Optimized; - HD Balanced; - HD Bit Rate Optimized; - SD Image Optimized; - SD Balanced; - SD Bit Rate Optimized; - DSL Optimized; - 3G Optimized |
|------------------------|---|

| Resolution | Models NEZ-5130-xxxW4 | Models NEZ-5230-xxxW4 |
|------------|--|--|
| | 720P (1280×720) D1 (704×576/704×480) | 1080P (1920×1080) 720P (1280×720) D1 (704×576/704×480) |

| | |
|------------------|--|
| Ethernet | 10/100BASE-T |
| Protocols | IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox, CHAP, digest authentication |
| Interoperability | ONVIF Profile S; GB/T 28181 |

Audio

| | |
|-------------|---|
| Compression | G.711, 8kHz sampling rate L16, 16kHz sampling rate AAC, 16kHz sampling rate |
| Interface | 1/1 Channel In/Out |

Local Storage

| | |
|---------------|---|
| Local storage | Memory card (a maximum of 32 GB microSDHC / 2 TB microSDXC). (An SD card of Class 6 or higher is recommended for HD recording.) |
|---------------|---|

Miscellaneous

| | |
|---------------------|---|
| Sectors / Titling | 16 independent sectors with 20 characters per title |
| Privacy Masking | 24 individually configurable privacy masks |
| Video Analysis | MOTION+ |
| Supported Languages | English, German, Spanish, French, Italian, Dutch, Polish, Portuguese, Russian, Japanese, Chinese (simplified) |

User Connections

| | |
|----------------|---------------------|
| Power, Network | RJ45 (10/100BASE-T) |
| Power, Camera | 24 VAC |
| Alarm Inputs | 2 |
| Alarm Outputs | 1 relay output |
| Audio input | 1 |
| Audio output | 1 |

Environmental

| | |
|-------------------------------------|--|
| Ingress Protection Rating/ Standard | IP66 (pendant models) IP51 (in-ceiling model) |
| IK Rating | IK10 (pendant models) |

| | |
|---|---|
| Operating Temperature (Pendant models) | 24 VAC: -40 °C to +60 °C (-40 °F to +140 °F) POE+ : -20 °C to +60 °C (-4 °F to +140 °F) |
| Operating Temperature (In-ceiling models) | -10 °C to +60 °C (+14 °F to +140 °F) |
| Humidity | Less than 90% RH |
| Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |

Construction

| | |
|-----------------------|--|
| Dimensions (D x H) | Pendant models: Ø 190 mm x 303.6 mm (≈ 7.5 in. x ≈ 12.0 in.) With Sunshield: Ø 207 mm x 303.6 mm (≈ 8.15 in. x ≈ 12.0 in.) In-ceiling model: 198 mm x 176.6 mm (7.8 in. x ≈ 7.0 in.) |
| Weight | Pendant models: 2.65 kg (5.8 lb) Pendant models with sunshield: 2.72 kg (6 lb) In-ceiling model: 2.10 kg (4.6 lb) |
| Construction Material | Housing, Pendant models: Aluminum Housing, In-ceiling model: SPCC Sunshield: Outdoor Grade Plastic Bubble: Polycarbonate |
| Standard Color | White (RAL 9003) |

Ordering information

AUTODOME IP 5000 HD

AUTODOME IP 5000 HD, 30x 720p30 HD camera with outdoor pendant housing and sunshield, clear bubble
Order number **NEZ-5130-EPCW4**

AUTODOME IP 5000 HD

AUTODOME IP 5000 HD, 30x 1080p30 HD camera with outdoor pendant housing and sunshield, clear bubble
Order number **NEZ-5230-EPCW4**

AUTODOME IP 5000 HD

AUTODOME IP 5000 HD, 30x 720p30 HD camera with indoor housing suitable for pendant installation, clear bubble
Order number **NEZ-5130-PPCW4**

AUTODOME IP 5000 HD

AUTODOME IP 5000 HD, 30x 1080p30 HD camera with indoor housing suitable for pendant installation, clear bubble
Order number **NEZ-5230-PPCW4**

AUTODOME IP 5000 HD

AUTODOME IP 5000 HD, 30x 1080p30 HD camera with indoor housing suitable for in-ceiling installation, clear bubble
Order number **NEZ-5230-CPCW4**

Accessories**UPA-2450-50 Power Supply, 220 V, 50 Hz**

Indoor power supply for camera. 220 VAC, 50 Hz In; 24 VAC, 50 VA Out

Order number **UPA-2450-50**

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

Indoor power supply for camera. 120 VAC, 60 Hz In; 24 VAC, 50 VA Out

Order number **UPA-2450-60**

High PoE Midspan, 60 W, single port, AC in

High Power, 60 W Single Port PoE Midspan with AC in

Order number **NPD-6001A**

Junction Box for AUTODOME IP 4000/5000 (VDA-AD-JNB)

Aluminum Junction Box without power supply for AUTODOME 4000 and 5000 cameras. Compatible with VEZ-A5-WMB and NEZ-A4-WW wall mounts, VG4-A-9542 corner mount, and VG4-A-9541 pole mount. Three M25 conduit holes, three G ¾ conduit holes. Wall-mountable. White.

Order number **VDA-AD-JNB**

VEZ-A5-WMB Wall Mount Bracket

Mount for installing an AUTODOME 5000 camera on a wall

Order number **VEZ-A5-WMB**

VEZ-A5-PP AUTODOME 5000 Pipe Mount

Mount for installing an AUTODOME 5000 camera onto a pipe.

Order number **VEZ-A5-PP**

VG4-A-9541 Pole Mount Adapter

Pole mount adapter for a VDA-AD-JNB Junction box

Order number **VG4-A-9541**

VG4-A-9542 Corner Mount Adapter

Corner mount adapter for a VDA-AD-JNB Junction Box

Order number **VG4-A-9542**

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-ROOF-MOUNT Roof Mount

Roof parapet mount, white

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**

NDA-ADPTR-NPTMET NPT-Metric Adapter

NPT-to-Metric Adapter (female-to-M33 male adapter) for use with NPT1.5 pipes with pipe mount (VEZ-A5-PP) and roof mount (VGA-ROOF-MOUNT).

Order number **NDA-ADPTR-NPTMET**

NEZ-A5-BUB-CTIP

Tinted bubble for in-ceiling housing.

Order number **NEZ-A5-BUB-CTIP**

NEZ-A5-BUB-PTIP

Tinted bubble for pendant housing.

Order number **NEZ-A5-BUB-PTIP**

Suspension Ceiling Support Kit for AUTODOME in-ceiling cameras

Suspension ceiling support kit for AUTODOME IP 4000/5000/7000 AND VG5-100/600 series in-ceiling cameras

Order number **MNT-ICP-ADC**

Represented by:

North America:

Bosch Security Systems, Inc.
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Fairport, New York, 14450, USA
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Fax: +1 585 223 9180
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Fax: +31 40 2577 330
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www.boschsecurity.com

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