

# **AutoDome Easy II IP**



- Choice of standard, including high-performance H.264 and JPEG
- High-quality H.264 compression at 4CIF/D1 and CIF resolutions
- Tri-streaming generates three independent IP video streams (simultaneous H.264 dual streams and JPEG streaming)
- ► ONVIF compliant
- Embedded Intelligent Video Analytics (IVA) eliminates dedicated PCs and associated software maintenance (optional)
- ► Durable vandal-resistant housing and bubble
- Ultra compact for discrete surveillance and improved aesthetics in indoor and outdoor applications
- ► High-speed 360-degree continuous pan
- ► High resolution/sensitivity 530 TVL color camera
- ▶ 120x zoom (10x optical, 12x digital)

AutoDome Easy II IP is a rugged, extremely compact, and easy to install PTZ camera system which incorporates many features typically only found in traditional high-speed dome cameras. This discrete, high-speed dome camera has been specifically designed to deliver uncompromised functionality and performance at a very affordable price for indoor and outdoor applications.

The AutoDome Easy II IP provides direct network connection using H.264 and JPEG compression and bandwidth throttling to efficiently manage bandwidth and storage requirements while delivering outstanding image quality. The AutoDome Easy II IP provides complete network-based control of all dome functionality including pan/tilt/zoom operation, presets, tours and alarming as well as web-based configuration of all dome settings.

The AutoDome Easy II IP conforms to the ONVIF (Open Network Video Interface Forum) specification guaranteeing interoperability between network video products regardless of manufacturer.

#### AutoDome Easy II IP highlights

With a dome diameter of only 4 inches (10.2 cm), the AutoDome Easy II IP is about 70% smaller than traditional PTZ cameras and 20% smaller than other compact domes. These compact dimensions make the AutoDome Easy II IP ideal for discrete surveillance applications.

Despite its compact design, the AutoDome Easy II IP delivers state-of-the-art technology and features that are rare to most compact PTZ cameras. Its variable pan and tilt speeds and autopivot ensure optimal camera control and viewing at all zoom levels. The high-performance 120x (10x optical/12x digital) zoom autofocus camera incorporates the latest digital imaging technology with excellent sensitivity and resolution. With 99 user-defined presets as well as multiple tour and autopan modes, the AutoDome Easy II IP is not small on features.

A single AutoDome Easy II IP provides as much coverage as four fixed mini domes and is priced lower than a traditional PTZ dome camera. The AutoDome Easy II IP maximizes your security investment by integrating with the entire line of Bosch video products including variable speed Allegiant matrix switchers and Divar XF digital recorders, as well as the full range of Bosch video over IP products.

And, the AutoDome Easy II IP is simple to install and use; available with surface, wall, recessed, and pipe mount options. These mounting options plus the Outdoor Installation kit ensure that the AutoDome Easy II IP can be mounted nearly anywhere.

### **System Overview**

#### High-performance 120x PTZ color camera

The AutoDome Easy II IP PTZ cameras have a 1/4-inch color CCD. With 530 TVL resolution and sensitivity to below 1.0 lux, the AutoDome Easy II IP Series offers exceptional performance at a very affordable price.

The AutoDome Easy II IP supports up to 99 user-defined pre-positions, as well as 1 preset tour, 2 recorded tours, and 2 auto-pan modes. The preset tour can be programmed with up to 99 prepositions and a configurable dwell time between positions. The recorded tours playback up to 15 minutes of any manual camera movements made during the recording, including the rate of pan, tilt and zoom speeds and other lens setting changes.

Pan and tilt preset repeatability are accurate to within ±0.1 degrees to ensure that the correct scene is captured every time. AutoDome Easy II IP delivers variable pan/tilt speeds from a crawl speed of only 0.1 degrees per second up to an ultra-quick 120 degrees per second. The dome is capable of pan speeds of 360 degrees per second and tilt speeds of 100 degrees per second between prepositions. AutoDome Easy II IP provides a tilt range of 0 to 94 degrees, and a pan range of up to 360 degrees continuous rotation.

The patented AutoScaling (proportional zoom) and AutoPivot (automatically rotates and flips the camera) ensure optimal control.

#### Ultra-efficient H.264 encoding

AutoDome Easy II IP uses an advanced H.264 encoder to create DVD-quality streaming video at ultra-low bit rates. Use of H.264 encoding, bandwidth throttling and multicasting capabilities, minimizes bandwidth and storage usage to significantly reduce costs. AutoDome Easy II IP supports 4CIF and CIF resolutions at frame rates up to 25 and 30 images per second (for PAL and NTSC respectively).

#### Tri-streaming video

The AutoDome Easy II IP is capable of generating Two independent H.264 streams with up to 4CIF resolution plus one JPEG stream simultaneously. This profile allows you to stream high-quality H.264 images for live viewing and recording, and at the same time, stream JPEG images to a remote FTP server or PDA device.

#### **ONVIF** conformance

The AutoDome Easy II IP conforms to the ONVIF (Open Network Video Interface Forum) specification guaranteeing interoperability between network video products regardless of manufacturer. ONVIF conformant devices are able to exchange live video, audio, metadata and control information and ensure that they are automatically discovered and connected to network applications such as video management systems.

#### Intelligence

With built-in video content analysis, the standard AutoDome Easy II IP reinforces the Intelligence-at-the-Edge concept where edge devices become increasingly intelligent. This camera comes with built-in MOTION+ video motion detection. This motion detection algorithm is based on pixel change and includes object size filtering capabilities and sophisticated tamper detection capabilities.

The AutoDome Easy II IP also features Bosch's Intelligent Video Analysis (IVA) in a dedicated, optimized version. IVA is state-of the-art intelligent video analysis that reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image.

#### Rugged reliability

A heavy-duty, tamper-resistant aluminum housing and rugged polycarbonate bubble protect the camera from vandalism and theft, ensuring the AutoDome Easy II IP continues to deliver critical images even in the toughest environments.

As with all Bosch products, the AutoDome Easy II IP 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.

#### **Functions**

The following are some of the features that make the AutoDome Easy II IP Series the perfect fit for a variety of indoor surveillance applications.

#### iSCSI device support

Built-in iSCSI support allows AutoDome Easy II IP to stream video directly to an iSCSI RAID array. This enables local video storage just like a conventional DVR without streaming high bandwidth video across the network. Local recording, or Recording at the Edge, minimizes bandwidth usage and makes system recording performance totally independent from network performance.

#### Network-based control and configuration

The AutoDome Easy II IP enables full camera control and configuration capabilities over the network. Operators or technicians can control camera pan/tilt/zoom operation, presets, tours, and alarm management functions virtually anywhere without need for additional wiring.

The embedded web server lets the installer access all the user settings, make camera adjustments, and update firmware via a standard web browser.

#### **Device management**

Simple Network Management Protocol (SNMP) support facilitates the remote monitoring and management. AutoDome Easy II IP provides full support for SNMP v3.

#### Cost effective coverage

It typically requires four or more fixed dome cameras to provide a full 360 degrees of surveillance coverage. Traditional PTZ dome cameras provide full coverage, but at a significantly higher cost. A single AutoDome Easy II IP provides as much coverage as four fixed domes, but is priced lower than a traditional PTZ dome camera. Not only is your initial investment smaller, but installation and maintenance costs are reduced as well.

# Superior privacy masking

The AutoDome Easy II IP allows for a total of 12 individual privacy masks, with up to 12 displayed in the same scene. Unlike conventional privacy masks, these can each be programmed with three, four, or even five corners to cover more complex shapes. As the camera is zoomed each mask changes size smoothly and quickly ensuring that the covered object cannot be seen. You also have a choice of black, white, and blurred characteristics. The blurred option comes in handy when privacy is an issue, but determining the presence of motion is still required.

#### Ease of installation and servicing

The AutoDome Easy II IP has been designed for quick and easy installation; a key feature from Bosch CCTV products. The dome comes fully assembled and ready for surface mount applications. Also available are wall, recessed, and pipe mounting kits which allow the AutoDome Easy II IP to be easily adapted for the individual site requirements. Available in white or charcoal.

#### Power over Ethernet

Power for indoor camera models may be supplied via a Power over Ethernet (IEEE 802.3af) compliant network cable connection. With this configuration, only a single cable connection is required to view, power, and control the camera.

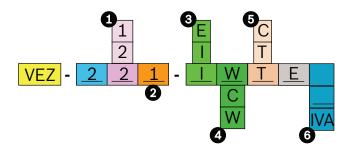
#### Viewing

View the video on a PC using a Web browser, in the Bosch Video Management System or Divar XF, or integrate it into another video management system.

## **Certifications and Approvals**

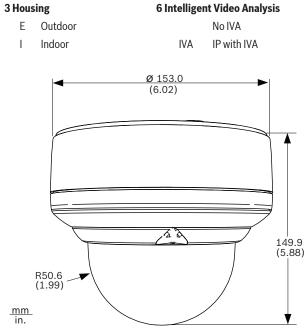
| Region                       | Cert | ification  |
|------------------------------|------|--|
| Europe                       | CE   |  |
| Electromagne                 |      | Complies with FCC Part 15, ICES-003, and CE regulations      |
| Product Safe                 | ty   | Complies with CE regulations, UL, CSA, EN, and IEC Standards |
| Environmenta<br>(Outdoor mod |      | IP65   |

# **Installation/Configuration Notes**

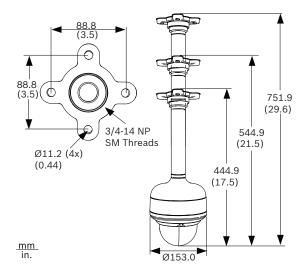


#### Ordering Guide

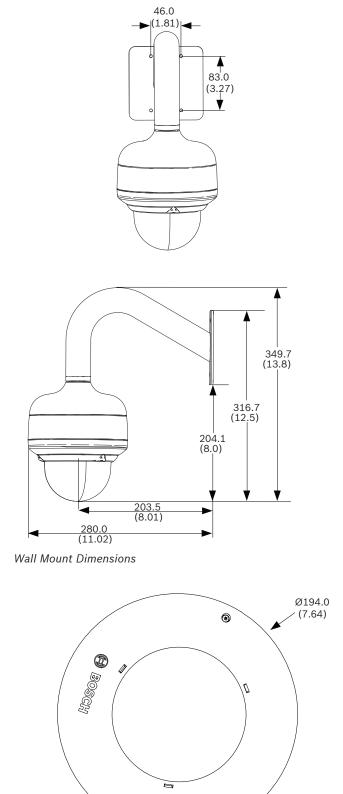
| 1 Vide | o Format    | 4 Color  |          |
|--------|-------------|----------|----------|
| 1      | PAL         | С        | Charcoal |
| 2      | NTSC        | W        | White    |
| 2 Cam  | era Type    | 5 Bubble |          |
| 1      | Color (10x) | С        | Clear    |
|        |             | T        | Tinted   |



AutoDome Easy II IP Dimensions

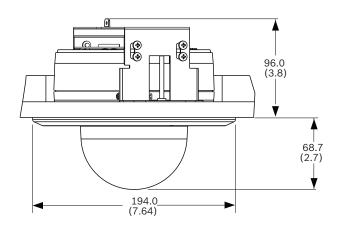


Pipe Mount Dimensions

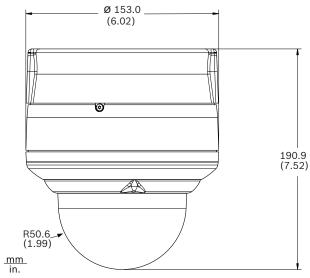


Recess Mount In-ceiling

**②** 



# In-ceiling Dimensions



Surface Mount Dimensions

# **Technical Specifications**

# Camera 10x Color

| Imager              | 1/4 in. Exview HAD CCD                        |
|---------------------|---|
|                     | (752 x 582 PAL)/(768 x 494 NTSC)              |
| Lens                | 10x Zoom (4.2-42.0 mm) (f/1.8)                |
| Focus               | Automatic with manual override                |
| Iris                | Automatic with manual override (F1.8 to F2.9) |
| Field of View       | Approx. 4.6° (TELE end) to 46° (Wide end)     |
| Gain Control        | AGC on/off (28dB max)                         |
| Synchronization     | Internal/external                             |
| Aperture Correction | User adjustable                               |

| Horizontal Resolution                    | 530 TVL typical  |   |
|--|--|---|
| Digital                                  | 12x  |   |
| Optical Zoom                             | 10x  |   |
| Optical Zoom FOV                         | 4.6° to 46°  |   |
| Sensitivity (typical)                    | 30 IRE   | 50 IRE  |
| With Tinted Bubble*                      |  |   |
| SensUP Off                               | 0.83 lx  | 1.67 lx   |
| SensUP On (1/4)                          | 0.043 lx   | 0.110 lx  |
| *With optional clear bubb                | e, approximately 0.6 F-s   | stop improvement.   |
| SNR                                      | 50 dB  |   |
| White Balance                            | Auto, indoor, outdoo   | r, 1 push   |
| Video                                    |  |   |
| Standards                                | H.264 (ISO/IEC 1449  | 6-10), M-JPEG, JPEG   |
| Streaming                                | Multiple, individually configurable streams in H.264 and JPEG, configurable frame rate and bandwidth |   |
| GOP Structure                            | I, IP, IPBB  |   |
| Data Rate                                | 9.6 kbps to 6 Mbps   |   |
| Resolutions and Frame F                  | Rates  |   |
| Name                                     | NTSC   | PAL   |
| 4CIF/D1                                  | 704 x 480, 30 ips  | 704 x 576, 25 ips   |
| CIF                                      | 352 x 240, 30 ips  | 352 x 288, 25 ips   |
| Overall IP delay                         | 240 ms   |   |
| Frame rate                               | 1 to 50/60 (PAL/NTS)   | C)  |
| Network                                  |  |   |
| Protocols                                | DHCP, IGMP V2/V3, IC   | , IP, HTTP, HTTPS, FTP,<br>CMP, ARP, SMTP, SNTP,<br>iSCSI, DynDNS, UPnP |
| Ethernet                                 | 100 Base-TX, auto-ser<br>RJ45  | nsing, half/full duplex,  |
| Power over Ethernet (Indoor models only) | IEEE 802.3af   |   |
| Software Control                         |  |   |
| Unit Configuration                       |  | rnet Explorer 7.0 Web<br>, Divar XF, Vidos, or<br>nager                 |
| Software Update                          | Flash ROM, remot   | e update  |
| Mechanical/Electrical                    |  |   |
| Weight                                   | 1.3 kg (2.86 lb)   |   |
| Pan Range                                | 0-360° continuo  | ous   |
| Tilt Angle                               | 0-94°  |   |
| Variable Speed                           | 0.1°/s-120°/s  |   |
| Pre-position Speed                       | Pan:360°/s<br>Tilt: 100°/s   |   |
| Preset Accuracy                          | ± 0.1° typ.  |   |

| Rated Voltage  |   | Ordering Information   |               |
|--|---|--|---------------|
| Camera, Indoor   | 24 VAC ± 10%, 50/60 Hz or<br>Power over Ethernet (IEEE 802.3af<br>Class 3)  | VEZ-211-EWCE Outdoor AutoDome Easy II IP Clear 10x Color PAL Outdoor AutoDome Easy II IP white 10x Color   | VEZ-211-EWCE  |
| Camera, Outdoor  | 24 VAC ± 10%, 50/60 Hz  | PAL camera with clear bubble   | VEZ 004 FW0F  |
| Heater, Outdoor N                                      | lodels 24 VAC ± 10%, 50/60 Hz   | VEZ-221-EWCE Outdoor AutoDome Easy II<br>IP Clear 10x Color NTSC   | VEZ-221-EWCE  |
| Power Draw: (typ.)                                     |   | Outdoor AutoDome Easy II IP white 10x Color  |               |
| Indoor Models  | 12 W  | NTSC camera with clear bubble  |               |
| Outdoor Models  Environmental                          | Camera only: 12 W<br>Heater only: 15 W<br>Total: 27 W   | VEZ-211-ECCE Outdoor AutoDome Easy II<br>IP Clear 10x Color PAL<br>Outdoor AutoDome Easy II IP charcoal 10x<br>Color PAL camera with clear bubble                                  | VEZ-211-ECCE  |
| Liivii Oiliileillai                                    |   | VEZ-221-ECCE Outdoor AutoDome Easy II  | VEZ-221-ECCE  |
| Operating Temp.  |   | IP Clear 10x Color NTSC  | 7 LL 121 LOOL |
| Indoor Models  | −10°C to 40°C (14°F to 104°F)   | Outdoor AutoDome Easy II IP charcoal 10x   |               |
| Outdoor Models   | -30°C to 50°C (−22°F to 122°F)  | Color NTSC camera with clear bubble  |               |
| Operation Humidity                                     | 0% to 90% relative, non-condensing  | VEZ-211-EWTE Outdoor AutoDome Easy II IP Tinted 10x Color PAL  | VEZ-211-EWTE  |
| Storage Temp.  | −20°C to 60°C (−4°F to 140°F)   | Outdoor AutoDome Easy II IP white 10x Color  |               |
| Environmental Rating                                   |   | PAL camera with tinted bubble  |               |
| Indoor Models  | Rated for indoor use only   | VEZ-221-EWTE Outdoor AutoDome Easy II  | VEZ-221-EWTE  |
| <ul><li>Outdoor Models</li><li>Miscellaneous</li></ul> | Rated for IP65  | IP Tinted 10x Color NTSC Outdoor AutoDome Easy II IP white 10x Color NTSC camera with tinted bubble  |               |
| Sectors/Titling  | 8 independent sectors with 16-character ti-<br>tles/sector  | VEZ-211-ECTE Outdoor AutoDome Easy II IP Tinted 10x Color PAL  | VEZ-211-ECTE  |
| Pre-positions  | 99, each with 16-character titles   | Outdoor AutoDome Easy II IP charcoal 10x   |               |
| Guard Tours  | Two (2) types of tours: •Recorded tours - two (2), total duration 15 minutes •Preset tour - one (1), consisting of up to 99 scenes, consecutively | Color PAL camera with tinted bubble  VEZ-221-ECTE Outdoor AutoDome Easy II IP Tinted 10x Color NTSC  Outdoor AutoDome Easy II IP charcoal 10x Color NTSC camera with tinted bubble | VEZ-221-ECTE  |
| Supported Languages                                    | English, French, German, Spanish, Portuguese, Polish, Italian, Dutch, and Russian   | VEZ-211-IWCE Indoor AutoDome Easy II IP<br>Clear 10x Color PAL   | VEZ-211-IWCE  |
| User Connections                                       |   | Indoor AutoDome Easy II IP white 10x Color<br>PAL camera with clear bubble   |               |
| Power  |   | VEZ-221-IWCE Indoor AutoDome Easy II IP  | VEZ-221-IWCE  |
| PoE, Indoor Model                                      | s RJ-45 100 Base-TX Ethernet Power over Ethernet IEEE 802.3af Class 3   | Clear 10x Color NTSC Indoor AutoDome Easy II IP white 10x Color  | VLL 221 1WOL  |
| Camera, All Model                                      | s 24 VAC, 50/60 Hz  | NTSC camera with clear bubble  |               |
| Heater, Outdoor N                                      | lodels 24 VAC, 50/60 Hz   | VEZ-211-ICCE Indoor AutoDome Easy II IP  | VEZ-211-ICCE  |
| Video and Control                                      | RJ-45 100 Base-TX Ethernet  | Clear 10x Color PAL Indoor AutoDome Easy II IP charcoal 10x Col-   |               |
| Alarm Input (2)  | NC/NO   | or PAL camera with clear bubble  |               |
| Alarm Output  Construction                             | Open collector NPN<br>32 VDC @ 150 mA max   | VEZ-221-ICCE Indoor AutoDome Easy II IP<br>Clear 10x Color NTSC<br>Indoor AutoDome Easy II IP charcoal 10x Color NTSC camera with clear bubble                                     | VEZ-221-ICCE  |
| Material   | Cast aluminum   | VEZ-211-IWTE Indoor AutoDome Easy II IP  | VEZ-211-IWTE  |
| Material Cast aluminum                                 |   | Tinted 10x Color PAL   |               |
| Color  | White or Charcoal   | Indoor AutoDome Easy II IP white 10x Color   |               |
| Size (Diameter x Height)                               | 6.02 in. x 4.61 in.<br>(153.0 mm x 133.0 mm), Cast aluminum   | PAL camera with tinted bubble  |               |
| Bubble   | 4.0 in. (10.2 cm), Polycarbonate  |  |               |

| Ordering Information   |                 | Ordering Information   |                 |
|--|-----------------|--|-----------------|
| VEZ-221-IWTE Indoor AutoDome Easy II IP Tinted 10x Color NTSC Indoor AutoDome Easy II IP white 10x Color NTSC camera with tinted bubble                        | VEZ-221-IWTE    | VEZ-211-ICCEIVA Indoor AutoDome Easy II IP with IVA Clear 10x Color PAL Indoor AutoDome Easy II IP with IVA, charcoal 10x Color PAL camera with clear bubble             | VEZ-211-ICCEIV# |
| VEZ-211-ICTE Indoor AutoDome Easy II IP<br>Tinted 10x Color PAL<br>Indoor AutoDome Easy II IP charcoal 10x Color PAL camera with tinted bubble                 | VEZ-211-ICTE    | VEZ-221-ICCEIVA Indoor AutoDome Easy II IP with IVA Clear 10x Color NTSC Indoor AutoDome Easy II IP with IVA, charcoal 10x Color NTSC camera with clear bubble           | VEZ-221-ICCEIV  |
| VEZ-221-ICTE Indoor AutoDome Easy II IP<br>Tinted 10x Color NTSC<br>Indoor AutoDome Easy II IP charcoal 10x Color NTSC camera with tinted bubble               | VEZ-221-ICTE    | VEZ-211-IWTEIVA Indoor AutoDome Easy II IP with IVA Tinted 10x Color PAL Indoor AutoDome Easy II IP with IVA, white 10x Color PAL camera with tinted bubble              | VEZ-211-IWTEIV  |
| VEZ-211-EWCEIVA Outdoor AutoDome Easy II IP with IVA Clear 10x Color PAL Outdoor AutoDome Easy II IP with IVA, white 10x Color PAL camera with clear bubble    | VEZ-211-EWCEIVA | VEZ-221-IWTEIVA Indoor AutoDome Easy<br>II IP with IVA Tinted 10x Color NTSC<br>Indoor AutoDome Easy II IP with IVA, white<br>10x Color NTSC camera with tinted bubble   | VEZ-221-IWTEIV  |
| VEZ-221-EWCEIVA Outdoor AutoDome Easy II IP with IVA Clear 10x Color NTSC Outdoor AutoDome Easy II IP with IVA, white 10x Color NTSC camera with clear bubble  | VEZ-221-EWCEIVA | VEZ-211-ICTEIVA Indoor AutoDome Easy II IP with IVA Tinted 10x Color PAL Indoor AutoDome Easy II IP with IVA, charcoal 10x Color PAL camera with tinted bubble           | VEZ-211-ICTEIVA |
| VEZ-211-ECCEIVA Outdoor AutoDome Easy II IP with IVA Clear 10x Color PAL Outdoor AutoDome Easy II IP with IVA, charcoal 10x Color PAL camera with clear bubble | VEZ-ECCEIVA     | VEZ-221-ICTEIVA Indoor AutoDome Easy II IP with IVA Tinted 10x Color NTSC Indoor AutoDome Easy II IP with IVA, charcoal 10x Color NTSC camera with tinted bubble         | VEZ-221-ICTEIVA |
| VEZ-221-ECCEIVA Outdoor AutoDome   | VEZ-221-ECCEIVA | Accessories  |                 |
| Easy II IP with IVA Clear 10x Color NTSC Outdoor AutoDome Easy II IP with IVA, char- coal 10x Color NTSC camera with clear bub-                                |                 | VEZ-A2-IC AutoDome Easy II Indoor<br>Ceiling Mount   | VEZ-A2-IC       |
| ble VEZ-211-EWTEIVA Outdoor AutoDome   | VEZ-211-EWTEIVA | <b>VEZ-A2-JC Surface Mount Adapter</b> Charcoal adapter for AutoDome Junior surface installations  | VEZ-A2-JC       |
| Easy II IP with IVA Tinted 10x Color PAL Outdoor AutoDome Easy II IP with IVA, white 10x Color PAL camera with tinted bubble                                   |                 | VEZ-A2-JW Surface Mount Adapter White adapter for AutoDome Junior surface installations  | VEZ-A2-JW       |
| VEZ-221-EWTEIVA Outdoor AutoDome Easy II IP with IVA Tinted 10x Color NTSC Outdoor AutoDome Easy II IP with IVA, white   | VEZ-221-EWTEIVA | VEZ-A2-PC AutoDome Junior Pipe Mount Charcoal  | VEZ-A2-PC       |
| 10x Color NTSC camera with tinted bubble   |                 | VEZ-A2-PW AutoDome Junior Pipe Mount   | VEZ-A2-PW       |
| VEZ-211-ECTEIVA Outdoor AutoDome Easy II IP with IVA Tinted 10x Color PAL Outdoor AutoDome Easy II IP with IVA, char-  | VEZ-211-ECTEIVA | White  VEZ-A2-WC AutoDome Junior Wall Mount Charcoal   | VEZ-A2-WC       |
| coal 10x Color PAL camera with tinted bub-<br>ble  |                 | VEZ-A2-WW AutoDome Junior Wall Mount White   | VEZ-A2-WW       |
| VEZ-221-ECTEIVA Outdoor AutoDome Easy II IP with IVA Tinted 10x Color NTSC   | VEZ-221-ECTEIVA | VEZ-SBUB-CL AutoDome Easy II Clear<br>Bubble   | VEZ-SBUB-CL     |
| Outdoor AutoDome Easy II IP with IVA, char-<br>coal 10x Color NTSC camera with tinted bub-<br>ble  |                 | VEZ-SBUB-TI AutoDome Easy II Tinted<br>Bubble  | VEZ-SBUB-TI     |
| VEZ-211-IWCEIVA Indoor AutoDome Easy<br>II IP with IVA Clear 10x Color PAL   | VEZ-211-IWCEIVA | LTC 9349MK In-ceiling Mounting Kit In-ceiling mounting kit   | LTC 9349MK      |
| Indoor AutoDome Easy II IP with IVA, white 10x Color PAL camera with clear bubble  |                 | Software Options   |                 |
| VEZ-221-IWCEIVA Indoor AutoDome Easy II IP with IVA Clear 10x Color NTSC Indoor AutoDome Easy II IP with IVA, white 10x Color NTSC camera with clear bubble    | VEZ-221-IWCEIVA | <b>Bosch Media Export Tool</b> A lightweight viewer application that displays and exports videos from Bosch IP cameras and encoder, and provides PTZ control of cameras. | VES-METSFT      |

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