The AUTODOME Series cameras represent the latest advancements in video surveillance technology. The cameras ship fully assembled in a pendant or an in-ceiling housing. Bosch offers a host of mounts, power supply boxes, and accessories so you can tailor your installation for a variety of applications and environments. These items are sold separately so you purchase only the items you need, which saves money and simplifies purchases.

**System overview**

**Mounting Options and Support Kits**
Bosch offers a series of mounting options and support kits to tailor your AUTODOME installation to various environments.

**Pendant Mounts**
The AUTODOME indoor/outdoor pendant housings can be connected to an arm, a roof, or to a pipe mount. Pendant arm mounts are available with a connected power supply box or as a separate arm with connected wiring. All pendant arm mounts can be connected to a corner or mast (pole) adapter, extending the installation options.

**In-ceiling Support Kits**
AUTODOME in-ceiling housings do not require optional accessories when mounting to drywall ceilings, but support kits are available for specific installation needs.

For suspended or drop ceilings, Bosch offers a kit that provides the necessary support to secure the in-ceiling housing to a ceiling tile. Bosch also offers a kit that offers IP54 ingress protection for in-ceiling installation for 100/600 Series, while AUTODOME 7000 in-ceiling is IP54-compliant with no additional purchases necessary.

In addition to the arm mounts, Bosch offers a pipe mount and a roof parapet mount. The pipe mount allows an AUTODOME pendant housing to be attached to a 1-1/2 inch (NPS) pipe (user-supplied). The roof parapet mount is an aluminum pole that secures an AUTODOME pendant to a roof surface. In addition, accessories are available to secure the parapet mount to a flat roof surface.

**24 VAC, 120 VAC, and 230 VAC power supply boxes**
**Pendant Wall, Corner, Mast, Roof, and Pipe mounts**
**In-ceiling support kits for suspended ceilings and for IP54 certification**
**IP Fiber Optic Communication Units**
**Rugged polycarbonate, IK10-rated nylon, and high-resolution acrylic replacement bubbles**
**Power Supplies**

Bosch offers a variety of stand-alone power supply boxes that are available without a transformer (for 24 VAC power input) and with either a 120 VAC or a 230 VAC transformer. Each power supply box offers 100 W output and the power supply box enclosures are NEMA-rated. Also available is a replacement power supply box cover.

**Fiber Optic Kits**

The VGA-FIBER-AN (multimode) is an analog, fiber optic conversion kit for use with 100 and 600 Series AUTODOMEs. This module is a video transmitter/data receiver modules designed to be mounted directly into an AUTODOME power supply box. The VG4-SFPSCKT is a unique media converter module for use with 7000 Series AUTODOMEs. This media converter is designed to accept a wide-range of 10/100 Mbps Small Form-factor Pluggable (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 AUTODOME’s power supply box to provide an integrated fiber optic solution.

**Bubbles**

Bosch offers a range of bubbles for in-ceiling and pendant housings. AUTODOME replacement bubbles are made of polycarbonate or acrylic. (The IK10-rated bubble is made of nylon.) Rugged polycarbonate bubbles provide high impact resistance, and their optical clarity is comparable to glass or acrylic, although their surface is much softer. Acrylic bubbles offer enhanced image clarity for high-resolution images but are low-impact. The IK10-rated bubble provides both impact resistance and HD quality image resolution. Clear bubbles offer maximum sensitivity by allowing as much light through as possible. Tinted bubbles offer covertness by making it difficult to see from the outside the direction the camera is facing. AUTODOME rugged polycarbonate and IK10-rated bubbles protect your camera from vandalism. Designed to meet stringent strength standards without compromising optical clarity, rugged bubbles can withstand impacts equivalent to a 4.5 kg (10 lb) weight dropped from a height of 3 meters (10 ft).

**Installation/configuration notes**

AUTODOME Series cameras are available as fully-assembled pendant or in-ceiling units. These units are packaged without mounting hardware or accessories so that you can choose only the parts needed for your application and environment.

**Pendant Mounts**

Pendant housings must be mounted to an arm or to a pipe using one of the options below. Various mounting accessories are also available to extend these mounting options to a host of applications.

<table>
<thead>
<tr>
<th>Power Supply Boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Supply</strong></td>
</tr>
<tr>
<td>VG4-A-PA0</td>
</tr>
<tr>
<td>VG4-A-PA1</td>
</tr>
<tr>
<td>VG4-A-PA2</td>
</tr>
</tbody>
</table>

| VGA-PEND-ARM         | Arm mount with wiring, no power supply box |
| VG4-A-9543           | Pipe mount for a 1-1/2 inch (NPS) pipe |
| VGA-ROOF-MOUNT       | Roof mount with parapet only (requires additional purchase of VG4-A-9543) |

<table>
<thead>
<tr>
<th>Pendant Mount Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accessory</strong></td>
</tr>
<tr>
<td>VGA-PEND-WPLATE</td>
</tr>
<tr>
<td>VG4-A-9541</td>
</tr>
<tr>
<td>VG4-A-9542</td>
</tr>
<tr>
<td>LTC 9230/01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>In-ceiling Support Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Support Kit</strong></td>
</tr>
<tr>
<td>VGA-IC-SP</td>
</tr>
<tr>
<td>VGA-IP54K-IC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Supply</strong></td>
</tr>
<tr>
<td>VG4-A-PSU0</td>
</tr>
<tr>
<td>VG4-A-PSU1</td>
</tr>
<tr>
<td>VG4-A-PSU2</td>
</tr>
</tbody>
</table>
Fiber Optic Kits
The fiber optic kit extends the range that the AUTODOME camera can receive commands and transmit video and data. The kit is designed to fit inside an AUTODOME power supply with all necessary connections.

<table>
<thead>
<tr>
<th>Kit</th>
<th>Description</th>
<th>For Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG4-SFPSCKT</td>
<td>Ethernet Media Converter Kit</td>
<td>AUTODOME 7000 Series</td>
</tr>
</tbody>
</table>

Bubbles for In-ceiling Cameras

Bubbles for current cameras in AUTODOME IP 7000* series

<table>
<thead>
<tr>
<th>Description</th>
<th>Bubble Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear high-resolution acrylic</td>
<td>VGA-BUBBLE-CCLA¹</td>
</tr>
<tr>
<td>Tinted high-resolution acrylic</td>
<td>VGA-BUBBLE-CTIA²</td>
</tr>
<tr>
<td>Clear rugged polycarbonate</td>
<td>VGA-BUBBLE-CCLR</td>
</tr>
<tr>
<td>Tinted rugged polycarbonate</td>
<td>VGA-BUBBLE-CTIR</td>
</tr>
<tr>
<td>Clear HD high-resolution acrylic</td>
<td>VGA-BUBHD-CCLA³</td>
</tr>
<tr>
<td>Tinted HD high-resolution acrylic</td>
<td>VGA-BUBHD-CTIA³</td>
</tr>
</tbody>
</table>

* with current versions of polycarbonate bubble rings
¹ Included with PAL camera models.
² Included with NTSC camera models.

HD Bubbles for current cameras in AUTODOME 7000** series

<table>
<thead>
<tr>
<th>Description</th>
<th>Bubble Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear high-resolution acrylic</td>
<td>VGA-BUBHD-CCLA³</td>
</tr>
<tr>
<td>Tinted high-resolution acrylic</td>
<td>VGA-BUBHD-CTIA³</td>
</tr>
</tbody>
</table>

** with acrylic rings
³ Included with camera.

Bubbles for Pendant Cameras

<table>
<thead>
<tr>
<th>Description</th>
<th>Bubble Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear high-resolution acrylic</td>
<td>VGA-BUBBLE-PCLA</td>
</tr>
<tr>
<td>Tinted high-resolution acrylic</td>
<td>VGA-BUBBLE-PTIA</td>
</tr>
<tr>
<td>Clear rugged polycarbonate</td>
<td>VGA-BUBBLE-PCLR</td>
</tr>
<tr>
<td>Tinted rugged polycarbonate</td>
<td>VGA-BUBBLE-PTIR</td>
</tr>
<tr>
<td>Clear rugged IK10-rated nylon</td>
<td>VGA-BUBBLE-IK10</td>
</tr>
</tbody>
</table>

Trim Rings
The following table describes the trim rings for each bubble.

<table>
<thead>
<tr>
<th>Description</th>
<th>Bubble Part Number</th>
<th>Trim Ring Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear high-resolution acrylic</td>
<td>VGA-BUBBLE-CCLA</td>
<td>Includes small rings. (Bubble comes assembled with white ring; if you want black ring, you must swap the ring.) Fits any small in-ceiling can.</td>
</tr>
<tr>
<td>Tinted high-resolution acrylic</td>
<td>VGA-BUBBLE-CTIA</td>
<td></td>
</tr>
<tr>
<td>Clear rugged polycarbonate</td>
<td>VGA-BUBBLE-CCLR</td>
<td>Bubble only. If you have a tinted bubble but want to use a clear one, you must reuse the ring that came with the tinted bubble.</td>
</tr>
<tr>
<td>Tinted rugged polycarbonate</td>
<td>VGA-BUBBLE-CTIR</td>
<td></td>
</tr>
<tr>
<td>Clear HD high-resolution acrylic</td>
<td>VGA-BUBHD-CCLA</td>
<td>Includes large rings. Only required for AUTODOME 7000 models (VG5-7xx). Fits large in-ceiling can.</td>
</tr>
<tr>
<td>Tinted HD high-resolution acrylic</td>
<td>VGA-BUBHD-CTIA</td>
<td></td>
</tr>
</tbody>
</table>

Technical specifications

Pendant Mounts

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Pendant Mounts¹ (W x H x D)</td>
<td>169.5 x 366.4 x 460.1 mm (6.67 x 14.43 x 18.12 in.)</td>
<td></td>
</tr>
<tr>
<td>Outdoor Pendant Mounts¹ (W x H x D)</td>
<td>224.0 x 366.4 x 477.6 mm (8.82 x 14.43 x 18.8 in.)</td>
<td></td>
</tr>
</tbody>
</table>

Pendant Mount Accessories

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA-PEND-WPLATE (W x H)</td>
<td>169.5 x 216.4 mm (6.67 x 8.52 in.)</td>
<td></td>
</tr>
<tr>
<td>VG4-A-9541 (W x H x D)</td>
<td>175.0 x 183.0 x 58.9 mm (6.9 x 7.6 x 2.3 in.)</td>
<td></td>
</tr>
<tr>
<td>VG4-A-9542 (W x H x D)</td>
<td>219.1 x 236.0 x 216.4 mm (8.3 x 9.3 x 5.25 in.)</td>
<td></td>
</tr>
</tbody>
</table>
The VGA-ROOF-MOUNT has 1.5-in. NPT tapered male threads.

### Power Supplies

<table>
<thead>
<tr>
<th>Model</th>
<th>Input</th>
<th>Output Rating</th>
<th>Input Fuses</th>
<th>Output Fuses</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG4-A-PSU0</td>
<td>24 VAC, 50/60 Hz</td>
<td>24 V @ 96 VA</td>
<td>5.0 A</td>
<td>2.0 A</td>
</tr>
<tr>
<td>VG4-A-PSU1</td>
<td>120 VAC, 50/60 Hz</td>
<td>24 V @ 96 VA</td>
<td>1.6 A</td>
<td>2.0 A</td>
</tr>
<tr>
<td>VG4-A-PSU2</td>
<td>230 VAC, 50/60 Hz</td>
<td>24 V @ 96 VA</td>
<td>0.8 A</td>
<td>2.0 A</td>
</tr>
</tbody>
</table>

#### Mechanical

- Certifications: UL, CE, Plenum Rated
- Dimensions (W x H x D), all models: 170.0 x 216.4 x 105.0 mm (6.69 x 8.52 x 4.13 in.)
- Construction Material: Cast Aluminum
- Standard Color: White (RAL9003)
- Standard Finish: Powder coated, sand finish

#### Environmental

- Operating Temperature: –60°C to 55°C (~76°F to 131°F)
- Humidity: 0% to 100%, condensing
- Environmental Protection: IP66, IK 8 (IEC 62262)

#### Fiber Optic Kits

**VG4-SFPSCKT**

- **Description**: Fiber Optic Ethernet Media Converter kit. Requires a small form-factor pluggable (SFP) module (sold separately).
- **Data Interface**: Ethernet
- **Data Rate**: 10/100 Mbps
- **IEEE 802.3 Compliant**: Full Duplex or Half Duplex Electrical Port
- **Full Duplex Optical Port**:

---

1. Dimensions include the mount and the connected pendant housings.
2. Dimensions for power supplies include the cover.

---

### Operating Temperature

-40°C to +50°C (-40°F to +122°F)

### 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 (W x H x D)**:
  - SFP-2 and SFP-3: 13.5 x 8.5 x 55.5 mm (0.5 x 0.3 x 2.2 in.)
  - SFP-23, SFP-24, SFP-25, SFP-26: 13.5 x 8.5 x 63.8 mm (0.5 x 0.3 x 2.5 in.)
- **Weight (all SFP modules)**: 0.23 kg (.05 lb)

#### Fiber Compatibility

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

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

Optical Distance Specifications

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

VGA-BUBBLE-IK10 for Pendant Cameras

<table>
<thead>
<tr>
<th>Construction material</th>
<th>Nylon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Ø 181.80</td>
</tr>
<tr>
<td>External Mechanical Impact (IK Code or Impact rating)</td>
<td>IK10</td>
</tr>
<tr>
<td>UV Rating for Sunlight</td>
<td>F1</td>
</tr>
</tbody>
</table>

Dimensions: Indoor AUTODOMEs with Mounting Options

Indoor System Dimensions
**Reference** | **Description** | **Dimensions**
--- | --- | ---
1 | Wall Mount – Side with power supply | 3
1a | Wall/Mast Mount – Side with VGA-PEND-WPLATE | 3a
2 | Wall Mount – Front with power supply and trim skirt | 4
2a | Wall Mount – Front with power supply | 5

**Dimensions: Outdoor AUTODOMEs with Mounting Options and Power Supply Box**

Outdoor System Dimensions
### Reference Description
1. Wall Mount – Side with power supply and trim skirt
1a. Wall/Mast Mount – Side with VGA-PEND-WPLATE
2. Wall Mount – Front with power supply and trim skirt
2a. Wall Mount – Front with power supply
3. Wall Mount – Back with power supply and trim skirt
3a. Wall Mount – Back with power supply
4. Pipe Mount
5. Mast (Pole) Mount Adapter
6. Corner Mount Adapter
7. Roof Mount
8. Roof Mount Adapter
9. Power Supply for Pipe and Roof Mounts

### Ordering information
- **VGA-PEND-ARM** Pendant arm with wiring, for AUTODOME
 Compatible with an AutoDome Series pendant housing
  Order number **VGA-PEND-ARM**

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

- **VGA-ROOF-MOUNT** Roof parapet mount for AUTODOME series
  Roof parapet mount, white
  VG5-6xx/7xxx cameras require VG4-A-9543 Pipe Mount (sold separately).
  NEZ-5130/-5230- cameras require NDA-ADPTR-NPTMET (sold separately)
  Order number **VGA-ROOF-MOUNT**

- **LTC 9230/01** Parapet roof mount adapter
  Flat Roof Mount Adapter for mounting a unit in an upright position on a flat surface.
  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 for AUTODOME
  Corner mount adapter for an AUTODOME pendant arm or a DINION imager
  Order number **VG4-A-9542**

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

- **VGA-IP54K-IC** In-ceiling IP54 kit for AUTODOME
  Gasket kit for AutoDome 100 and 600 Series, AutoDome In-ceiling mounts required for IP54 environmental rating.
  Order number **VGA-IP54K-IC**

- **VGA-IC-SP** Suspended ceiling support kit, 7"
  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**

- **VG4-A-PAO** Pendant arm, power box, 24VAC, AUTODOME
  Pendant arm mount with power supply box for an AUTODOME Series camera, no transformer, white
  Order number **VG4-A-PAO@1**

- **VG4-A-PA1** Pendant arm, power box, 120VAC, AUTODOME
  Pendant arm mount with power supply box for an AUTODOME Series camera with a 120 VAC transformer, white
  Order number **VG4-A-PA1**

- **VG4-A-PA2** Pendant arm, power box, 230VAC, AUTODOME
  Pendant arm mount with power supply box for an AUTODOME Series camera with a 230 VAC transformer, white
  Order number **VG4-A-PA2@1**

- **EWE-VG4PA2-IW** 12mths wrty ext VG4-A-12 months warranty extension
  Order number **EWE-VG4PA2-IW**

- **VG4-A-PSU0** Power supply, 24VAC
  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.
  Order number **VG4-A-PSU0**

- **VG4-A-PSU1** PSU, 120VAC, for AUTODOME, MIC7000
  Power supply for AUTODOME 7000, MIC IP cameras without illuminators.
  120VAC in, 24VAC out
  Order number **VG4-A-PSU1**

- **VG4-A-PSU2** Power supply, 230VAC, AUTODOME, MIC7000
  Power supply for AUTODOME 7000, MIC IP cameras without illuminators.
  230VAC in, 24VAC out
  Order number **VG4-A-PSU2**

- **EWE-VG4PS2-IW** 12mths wrty ext VG4-A-PSU2
  12 months warranty extension
  Order number **EWE-VG4PS2-IW**
VGA-SBOX-COVER Cover for AUTODOME power supply box
Cover for AUTODOME Power Supply Boxes, white
Order number VGA-SBOX-COVER

VG4-A-TSKIRT Trim skirt for AUTODOME power supply box
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-FIBER-AN Fiber optic kit, multimode, AUTODOME
Analog multimode video transmitter/data receiver fiber optic kit
Order number VGA-FIBER-AN

VG4-SFPSCKT ETHERNET TO SFP INTERFACE KIT
Ethernet media converter video transmitter/data receiver fiber optic kit for AUTODOME cameras, for MIC-IP-PSU for MIC analog cameras and for the Surveillance cabinets (NDA-U-PA0, NDA-U-PA1 and NDA-U-PA2).
Order number VG4-SFPSCKT

VGA-BUBBLE-PCLA Bubble, pendant, clear
Low-impact acrylic bubble
Order number VGA-BUBBLE-PCLA

VGA-BUBBLE-PTIR Bubble, pendant, tinted, rugged
Impact resistant polycarbonate bubble
Order number VGA-BUBBLE-PTIR

VGA-BUBBLE-PTIA Bubble, pendant, tinted
Low-impact acrylic bubble
Order number VGA-BUBBLE-PTIA

VGA-BUBLRG-CCLA Bubble, in-ceiling, large, clear
High-resolution bubble for AUTODOME in-ceiling cameras, clear
Order number VGA-BUBLRG-CCLA

VGA-BUBLRG-CTIA Bubble, in-ceiling, large, tinted
High-resolution bubble for AUTODOME in-ceiling cameras, tinted
Order number VGA-BUBLRG-CTIA

VGA-BUBHD-CCLA Bubble, in-ceiling, clear
High-resolution acrylic bubble for AUTODOME HD in-ceiling cameras, clear
Order number VGA-BUBHD-CCLA

VGA-BUBHD-CTIA Bubble, in-ceiling, tinted
High-resolution acrylic bubble for AUTODOME HD in-ceiling cameras, tinted
Order number VGA-BUBHD-CTIA

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

Services
EWE-VG4PA2-IW 12mths wrty ext VG4-A
12 months warranty extension
Order number EWE-VG4PA2-IW

EWE-VG4PS2-IW 12mths wrty ext VG4-A-PSu2
12 months warranty extension
Order number EWE-VG4PS2-IW

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