# AutoDome 100 Series Analog Fixed Camera

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- ▶ 540 TVL fixed dome series
- ► Color and day/night camera options
- ► Available with 2.7–13.5 mm or 5–50 mm lens
- Coax/UTP transmission standard on all models
- Convertible to IP communications with optional accessory

The AutoDome 100 Series is an easy to install fixed camera that delivers superb video in all indoor and outdoor applications. The camera features day/night functionality for high quality images in low light conditions. This discrete dome camera has an IP66 rating ensuring reliable uncompromised functionality even in dusty and potentially wet environments.

By using the same housing components, all AutoDome installations have a consistent look, and observers have no idea which type of camera (if any) is watching over them.

#### 100 Series highlights

The AutoDome 100 Series combines the same highquality housings used by AutoDome PTZ cameras with the award-winning imaging technology of Dinion highresolution color or day/night fixed cameras and varifocal lenses.

The AutoDome 100 Series supports a variety of standard and optional video and data transmission methods, including Bilinx (over coax and UTP) and fiber. Remote control, configuration, and firmware updates can also be performed over these cables, offering you unparalleled control of your cameras.

The AutoDome 100 Series maximizes your security investment by integrating with Bosch video storage products, as well as the full range of Bosch video over IP products.

And, the AutoDome 100 Series is simple to install and use. The in-ceiling and pendant housings come fully assembled. The pendant housings are ready for wall or pipe applications with the proper mounting hardware (purchased separately). Also available for pendants, are corner, mast, and roof mounting kits which allow the AutoDome 100 Series to be easily adapted to the individual site requirements.

### **Functions**

The following are some of the features that make the AutoDome 100 Series the most flexible fixed dome camera in the security industry.

### **High-performance camera features**

AutoDome 100 Series cameras have a 1/3-inch color or day/night CCD with Bosch's unique 15-bit Dinion digital imaging technology to deliver a 32-fold sensitivity improvement and a full 540 horizontal lines of resolu-

tion. In addition, AutoDome 100 Series cameras incorporate a number of features not found in other fixed dome cameras.

#### These include:

- XF-Dynamic Extends the camera's dynamic range to deliver sharper, more detailed images and outstanding color reproduction accuracy.
- NightSense Automatically activated under low-light conditions to extend the 100 Series' exceptional sensitivity by a factor of three during monochrome operation
- SensUp Increases integration time by a factor of 10 to dramatically enhance sensitivity.
- Back Light Compensation (BLC) A fully programmable backlight compensation (BLC) area of interest and variable BLC level let AutoDome 100 Series day/ night cameras overcome even the most challenging entrance, vestibule, and lobby applications.
- Auto Black Enhances contrast by compensating for reduced contrast due to fog, mist, or glare.
- Default Shutter Automatically adjusts to the lens opening at fast shutter speeds, eliminating motion blur and providing remarkably clear and detailed images of fast-moving objects.

AutoDome 100 Series day/night versions automatically switch from color to monochrome by removing a mechanically switching IR filter in low-light conditions. This boosts the infrared illumination sensitivity while maintaining superior image quality.

### **Unsurpassed reliability**

All housings feature recessed screws and latches for increased tamper resistance.

AutoDome pendant housings (indoor and outdoor) are rated to provide IP 66 protection. In addition, the pendant housings come equipped with a low-impact, high-resolution acrylic bubble for enhanced image clarity. Outdoor Pendant housings provide an operating temperature range down to -40°C (-40°F). AutoDome in-ceiling housings provide IP54 (with optional kit) protection and are rated IK 8 (IEC 62262). These housings feature an impact-resistant polycarbonate rugged bubble to protect your camera from vandalism. The rugged bubble can withstand impacts equivalent to a 4.5 kg (10 lb) weight dropped from a height of 3 m (10 ft).

### Ease of installation and servicing

Bosch's innovative software, the Configuration Tool for Imaging Devices (CTFID), allows operators or technicians to change camera settings, and even update firmware from virtually anywhere without need for additional wiring.

### **Certifications and Approvals**

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations, including EN50130-4 and EN50121-4
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC Standards
Environmental	
• In-ceiling	IP54 (with optional VGA-IP54K-IC kit), Plenum rated
• Pendant	IP66, NEMA 4X
Impact Resistance	In-ceiling: IK 8

#### **Parts Included**

### In-ceiling

1	Fully-assembled in-ceiling housing
1	Polycarbonate bubble, tinted
1	Interface box

#### **Indoor Pendant**

1	Fully-assembled indoor pendant housing
1	Acrylic bubble, tinted

#### **Outdoor Pendant**

1	Fully-assembled outdoor pendant housing with sunshield
1	Acrylic bubble, clear

**Note:** Mounting hardware and accessories are available separately.

#### **Technical Specifications**

#### Camera 2.7 mm-13.5 mm Color

Imager	1/3 in. Interline CCD	
	(752 x 582 PAL)/(768 x 492 NTSC)	
Lens		
Iris	Automatic	
Field of View	78.3° to 18.5°	
Video Output	1.0 Vp-p, 75 Ohm	
Gain Control	Off/Auto (with adjustable limit) /manual	
Synchronization	Line-Lock (0° to 358° vertical phase adjust) or internal crystal	
Aperture Correction	Horizontal and vertical	
Horizontal Resolution	540 TVL (NTSC, PAL) typical	
Sensitivity (typical)	30 IRE	50 IRE
SensUp Off	0.29 lx	0.9 lx
SensUp On (15x)	0.029 lx	0.09 lx

SNR	>50 dB
White Balance	2500 K to 9000 K (with AWB hold mode and manual mode)

### Camera 2.7 mm-13.5 mm Day/Night

Imager		1/3 in. Interline CC	CD	
		(752 x 582 PAL)/(	(752 x 582 PAL)/(768 x 492 NTSC)	
Lens				
Iris	S	Automatic	Automatic	
Fie	eld of View	78.3° to 18.5°	78.3° to 18.5°	
Vio	deo Output	1.0 Vp-p, 75 Ohm		
Gain Control		Off/Auto (with adju	ıstable limit) /manual	
Synchronization Line-Lock (0° to 358° vertical piust) or internal crystal				
Aperture Correction		Horizontal and vertical		
Horizontal Resolution		540 TVL (NTSC, PAL) typical		
Se	nsitivity (typical)	30 IRE	50 IRE	
	Day Mode			
	SensUp Off	0.29 lx	0.9 lx	
	SensUp On (15x)	0.029 lx	0.09 lx	
Night Mode				
	SensUp Off	0.12 lx	0.36 lx	
	SensUp On (15x)	0.012 lx	0.09 lx	
SNR		>50 dB		
WI	hite Balance	2500 K to 9000 K and manual mode)	(with AWB hold mode	

### Camera 5 mm-50 mm Color

Imager	1/3 in. Interline CCD	
	(752 x 582 PAL)/(768 x 492 NTSC)	
Lens		
Iris	Automatic	
Field of View	47.5° to 5.0°	
Video Output	1.0 Vp-p, 75 Ohm	
Gain Control	Off/Auto (with adjustable limit) /manual	
Synchronization	Line-Lock (0° to 358° vertical phase adjust) or internal crystal	
Aperture Correction	perture Correction Horizontal and vertical	
Horizontal Resolution	540 TVL (NTSC, PAL) typical	
Sensitivity (typical)	30 IRE	50 IRE
SensUp Off	0.42 lx	1.3 lx
SensUp On (15x)	0.042 lx	0.13 lx

SNR	>50 dB
White Balance	2500 K to 9000 K (with AWB hold mode and manual mode)

### Camera 5 mm-50 mm Day/Night

Camera 3 mm-30 mm Day/Night			
Imager	1/3 in. Interline CCD		
	(752 x 582 PAL)/(768 x 492 NTSC)		
Lens			
Iris	Automatic		
Field of View	47.5° to 5.0°		
Video Output	1.0 Vp-p, 75 Oh	m	
Gain Control	Off/Auto (with a	djustable limit) /manual	
Synchronization	Line-Lock (0° to 358° vertical phase adjust) or internal crystal		
Aperture Correction	Horizontal and v	Horizontal and vertical	
Horizontal Resolution	540 TVL (NTSC, PAL) typical		
Sensitivity (typical)	30 IRE	50 IRE	
Day Mode			
SensUp Off	0.42 lx	1.3 lx	
SensUp On (15x)	0.042 lx	0.13 lx	
Night Mode			
SensUp Off	0.17 lx	0.52 lx	
SensUp On (15x)	0.017 lx	0.052 lx	
SNR	>50 dB		
White Balance	2500 K to 9000 K (with AWB hold mode and manual mode)		

### **Electrical**

	In-ceiling	Indoor Pendant	Outdoor Pendant
Power	21-30 VAC 50/60 Hz	21-30 VAC 50/60 Hz	21-30 VAC 50/60 Hz
Power Draw: (typ)	7.5 W / 14 VA	7.5 W / 14 VA	43.5 W / 47 VA

### **Surge Suppression**

Protection on Video	Peak current 10 kA (Gas Tube Arrester), peak power 1000 W (10/1000 μ)
Protection on Power Input (Dome)	Peak current 7.3 A, peak power 600 W (10/1000 $\mu$ )
Protection on Power Output (Arm Power Supply)	Peak current 21.4 A, peak power 1500 W (10/1000 $\mu$ )

### Miscellaneous

Communications Protocols	Bilinx
Supported Languages	English, Czech, Dutch, French, German, Italian, Polish, Portuguese, Russian and Spanish

### **User Connections**

Power, Camera	21-30 VAC, 50/60 Hz
Power, Heater	21-30 VAC, 50/60 Hz
Video and Data	BNC/UTP

### **Environmental**

	In-ceiling	Indoor Pendant	Outdoor Pendant
Operat- ing Temp.	-10°C to 50°C (14°F to 122°F)	−10°C to 50°C (14°F to 122°F)	-40°C to 50°C (-40°F to 122°F)
Storage Temp.	-40°C to 60°C (-40°F to 140°F)	-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 90% relative, non-condensing	0% to 100% relative, condensing

### Construction

Dimensions	See dimensional drawings
Weight	
In-ceiling	2.66 kg (5.86 lb)
Indoor Pendant	2.88 kg (6.3 lb)
Outdoor Pendant	3.32 kg (7.3 lb)
Bubble Size	153.1 mm diameter (6.03 in.)
Construction Material	
<ul> <li>Housing</li> </ul>	Cast aluminum
• Bubble	Pendant: Acrylic (high-resolution) In-ceiling: Polycarbonate (rugged)
Standard Color	White (RAL9003)
Standard Finish	Powder coated, sand finish

### **Mounts/Accessories**

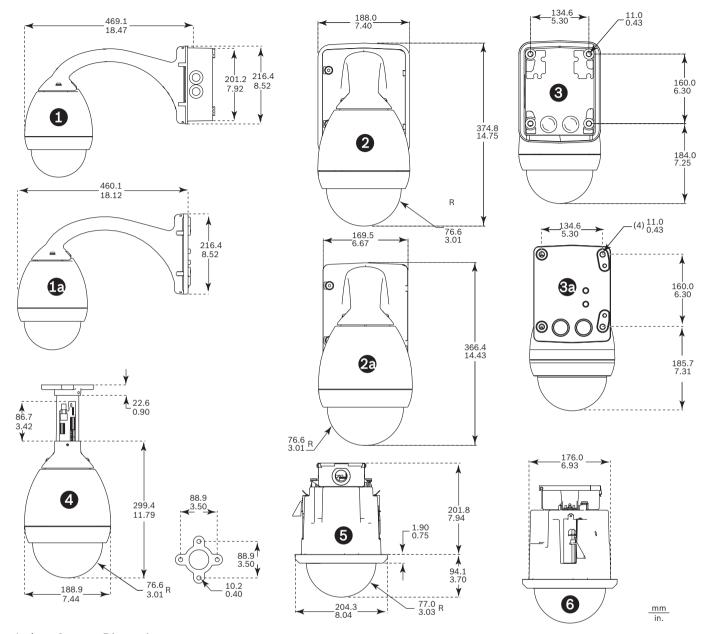
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Tinted rugged polycarbonate	VGA-BUBBLE-CTIR
Clear rugged polycarbonate	VGA-BUBBLE-CCLR

### Pendant

Tinted rugged polycarbonate VGA-BUBBLE		GA-BUBBLE-PTIR
Clear high-resolution acrylic	VGA-BUBBLE-PCLA	
Tinted high-resolution acrylic	VG	GA-BUBBLE-PTIA
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 AutoDome 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
Gasket kit for IP54 certification		VGA-IP54K-IC
Power Supplies		
Outdoor Power Supply Box, no transforme	er	VG4-A-PSU0
Outdoor Power Supply Box (120/230 VAC Transformer)	2	VG4-A-PSU1 / VG4-A-PSU2
Fiber Optic Kit		VGA-FIBER-AN

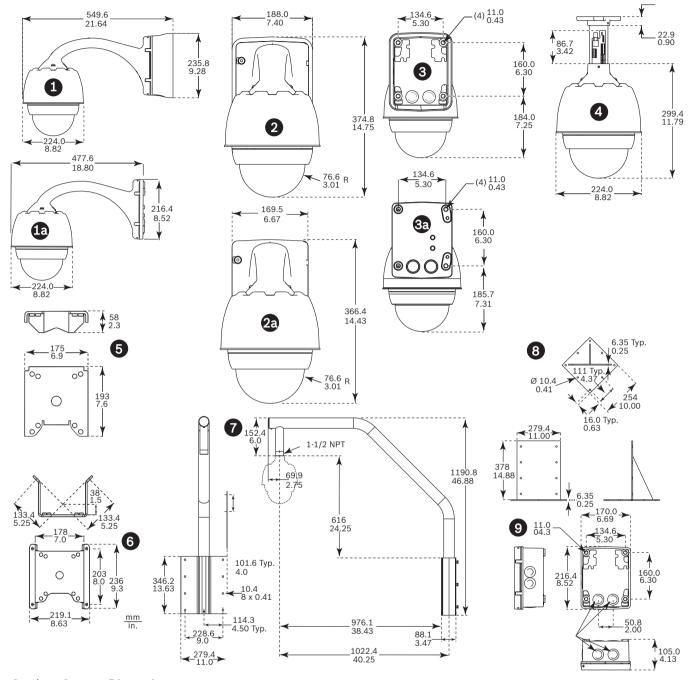
### **Dimensions: Indoor AutoDomes**



### **Indoor System Dimensions**

Reference	Description
1	Wall Mount – Side with power supply
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	In-ceiling Mount – Front
6	In-ceiling Mount – Side

### **Dimensions: Outdoor AutoDomes**



### **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 Mount
6	Corner Mount
7	Roof Mount
8	Roof Mount Adapter
9	Power Supply for Pipe and Roof Mounts

### **Ordering Information**

## VG5-161-CT0 AutoDome 100 Series Color NTSC In-ceiling Camera

Analog 1/3-inch 2.7-13.5 mm color CCD NTSC camera, in-ceiling housing with a tinted polycarbonate bubble Order number **VG5-161-CT0** 

### VG5-162-CT0 AutoDome 100 Series Day/Night NTSC Inceiling Camera

Analog 1/3-inch 2.7-13.5 mm day/night CCD NTSC camera, in-ceiling housing with a tinted polycarbonate bubble

Order number VG5-162-CT0

### VG5-163-CT0 AutoDome 100 Series Color NTSC In-ceiling Camera

Analog 1/3-inch 5-50 mm color CCD NTSC camera, inceiling housing with a tinted polycarbonate bubble Order number VG5-163-CT0

## VG5-164-CT0 AutoDome 100 Series Day/Night NTSC Inceiling Camera

Analog 1/3-inch 5-50 mm day/night CCD NTSC camera, in-ceiling housing with a tinted polycarbonate bubble Order number **VG5-164-CT0** 

### VG5-161-PT0 AutoDome 100 Series Color NTSC Indoor Pendant Camera

Analog 1/3-inch 2.7-13.5 mm color CCD NTSC camera, indoor pendant housing with a tinted acrylic bubble Order number **VG5-161-PT0** 

## VG5-162-PT0 AutoDome 100 Series Day/Night NTSC Indoor Pendant Camera

Analog 1/3-inch 2.7-13.5 mm day/night CCD NTSC camera, indoor pendant housing with a tinted acrylic bubble

Order number VG5-162-PT0

### VG5-163-PT0 AutoDome 100 Series Color NTSC Indoor Pendant Camera

Analog 1/3-inch 5-50 mm color CCD NTSC camera, indoor pendant housing with a tinted acrylic bubble Order number VG5-163-PT0

### VG5-164-PT0 AutoDome 100 Series Day/Night NTSC Indoor Pendant Camera

Analog 1/3-inch 5-50 mm day/night CCD NTSC camera, indoor pendant housing with a tinted acrylic bubble Order number VG5-164-PT0

# VG5-164-EC0 AutoDome 100 Series Day/Night NTSC Outdoor Pendant Camera

Analog 1/3-inch 5-50 mm day/night CCD NTSC camera, outdoor pendant housing with a clear acrylic bubble Order number **VG5-164-EC0** 

#### **Accessories**

### VG4-A-PA0 Pendant Arm Mount

Pendant arm mount with power supply box for a Auto-Dome 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 Auto-Dome 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 Auto-Dome 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-IP54K-IC IP54 In-ceiling Gasket Kit for AutoDome 100/600 Series

Gasket kit for AutoDome 100 and 600 Series Auto-Dome In-ceiling mounts required for IP54 environmental rating

Order number VGA-IP54K-IC

### VGA-IC-SP In-ceiling Support Kit for AutoDome 100/600 Series

Suspended ceiling support kit for AutoDome 100 and 600 Series AutoDome In-ceiling mounts
Order number VGA-IC-SP

#### VG4-A-PSU0 24 VAC Power Supply Unit

24 VAC, 100 W, NEMA-rated, white, for an AutoDome Series camera

Order number VG4-A-PSU0

### VG4-A-PSU1 120 VAC Power Supply Unit

120 VAC, 100 W, NEMA-rated, white, for an AutoDome Series camera

Order number VG4-A-PSU1

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

230 VAC, 100 W, NEMA-rated, white, for an AutoDome Series camera

Order number VG4-A-PSU2

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

Order number VGA-SBOX-COVER

### VGA-FIBER-AN Analog Multimode Fiber Optic Kit

Analog multimode video transmitter/data receiver fiber optic kit

Order number VGA-FIBER-AN

### VG4-A-TSKIRT Trim Skirt for AutoDome Power Supply Boxes

Trim skirt for the following AutoDome Series power supply boxes:

VG4-A-PSU0F, VG4-A-PSU1, VG4-A-PSU1F, VG4-A-PSU2, VG4-A-PSU2F,

VG4-SBOX-24VAC, VG4-SBOX-120VAC, and VG4-SBOX-230VAC

Order number VG4-A-TSKIRT

## VGA-BUBBLE-CCLR Clear Rugged Bubble for an In-ceiling Housing

Impact resistant polycarbonate bubble Order number VGA-BUBBLE-CCLR

# VGA-BUBBLE-CTIR Tinted Rugged Bubble for an In-ceiling Housing

Impact resistant polycarbonate bubble Order number VGA-BUBBLE-CTIR

### VGA-BUBBLE-PCLR Clear Rugged Bubble for a Pendant Housing

Impact resistant polycarbonate bubble Order number VGA-BUBBLE-PCLR

### VGA-BUBBLE-PTIR Tinted Rugged Bubble for a Pendant Housing

Impact resistant polycarbonate bubble Order number VGA-BUBBLE-PTIR

### 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

### VG4-MTRN-E1 AutoDome TCP/IP Communications Module

H.264 TCP/IP (Ethernet) communications module for AutoDome 100, 200, 300 and 500i Series products Order number **VG4-MTRN-E1** 

#### **Software Options**

### **VP-CFGSFT Configuration Tool for Imaging Devices**

Camera configuration software for use with Bilinx cameras

Order number VP-CFGSFT

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