

VDC-4x5 Series Dome Cameras FlexiDome VF and XT+

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Invented for life



- ▶ Low-impact and impact-resistant models
- ▶ 1/3-inch format CCD imager
- ▶ Superior picture clarity in virtually all situations
- ▶ 540 TVL color resolution
- ▶ AC or DC operation

The FlexiDome^{VF} and FlexiDome^{XT+} series of dome cameras are an excellent solution for virtually any indoor or outdoor application. The cast aluminum housing, polycarbonate dome and hardened inner liner of the FlexiDome^{XT+} version can withstand the equivalent of 120 lbs of force. The FlexiDome^{VF} utilizes a standard indoor enclosure. These units contain full-featured color cameras with 1/3-inch CCD and integral varifocal lenses.

Installation is quick and easy, since the cameras come completely assembled and ready to use. Using the proprietary pan/tilt/rotation mechanism, installers can select exactly the required field of view. Mounting options are numerous, including surface, 4S, wall, corner and suspended ceiling.

The FlexiDome^{VF} and FlexiDome^{XT+} cameras are an ideal solution for many surveillance applications. Their compact, sleek design and virtually flush-mount appearance complement any decor. The camera enclosure provides the extra protection necessary for applications such as in schools, banks, prisons, parking garages, retail and commercial buildings.

Functions

Technology

The FlexiDome^{VF} and FlexiDome^{XT+} series incorporate the latest technology in imaging, with 540 TVL resolution color cameras. Their superior sensitivity, high resolution and picture quality provide optimal performance in virtually all situations. The choice of lenses makes these cameras very versatile, because they can cover everything from standard and telephoto to low-light applications.

Operation

The lens wizard and focus aid make lens adjustment easy and straightforward, and ensure proper focus throughout the 24-hour cycle. All cameras can operate on both AC and DC. LineLock and phase adjustment are available, when AC power is used. NightSense is a feature that can extend the excellent sensitivity by a factor of three in monochrome operation. All cameras incorporate Bilinx, a technology that allows technicians to set up and control the camera settings remotely over the video cable.

Controls and Indicators

- OSD
- 5-key operation

Interconnections

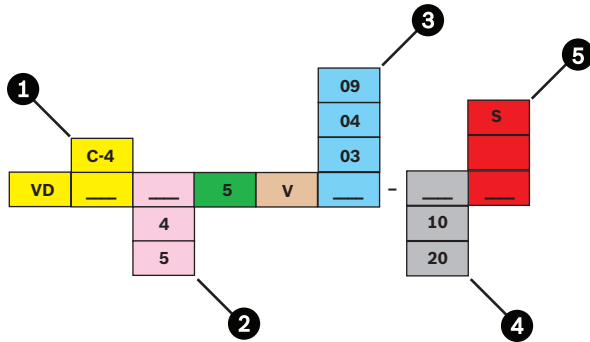
- Video connection BNC on flying lead
- Power connection on flying leads

Certifications and approvals

Safety	UL 1950; CSA 22.2 No. 950; EN 60950 (CE)
Immunity	EN 50130-4 (CE)
Emission	EN 50022 class B (CE); FCC, class B part 15
Water/dust protection	IP 66 and NEMA-4X (VDC-455 models only)

Region	Certification
Europe	CE
USA	FCC Declaration of Conformity V Dx 355-455-485-495

Installation/configuration notes



1	C-4	Color (with NightSense)
2	4	Low impact
	5	High impact
3	03	2.6 to 6 mm F1.4
	04	4 to 9 mm F1.6 (low impact version) 3.7 to 12 mm F1.6 (high impact version)
	09	9 to 22 mm F1.4
4	10	PAL color
	20	NTSC color
5		Flush mount
	S	Surface mount

FlexiDome^{VF} model overview

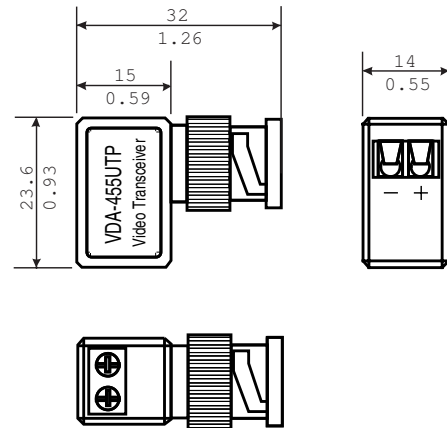
Model	Standard	Lens
VDC-445V03-10	PAL	2.6 to 6 mm F1.4

VDC-445V03-20	NTSC	2.6 to 6 mm F1.4
VDC-445V04-10	PAL	4 to 9 mm F1.6
VDC-445V04-20	NTSC	4 to 9 mm F1.6
VDC-445V09-10	PAL	9 to 22 mm F1.4
VDC-445V09-20	NTSC	9 to 22 mm F1.4

FlexiDome^{XT+} model overview

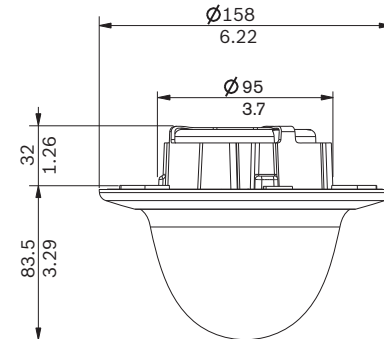
Model	Standard	Lens
VDC-455V03-10	PAL	2.6 to 6 mm F1.4
VDC-455V03-20	NTSC	2.6 to 6 mm F1.4
VDC-455V04-10	PAL	3.7 to 12 mm F1.6
VDC-455V04-20	NTSC	3.7 to 12 mm F1.6
VDC-455V09-10	PAL	9 to 22 mm F1.4
VDC-455V09-20	NTSC	9 to 22 mm F1.4

BNC to UTP Transceiver



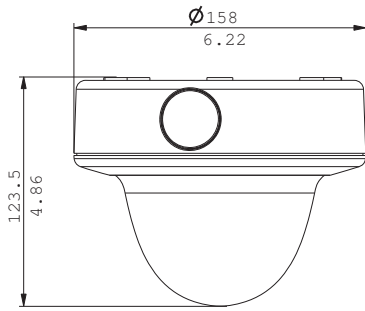
Dimensions in mm (in.)

FlexiDome^{VF} Low Impact, Indoor Flush Mounting Model



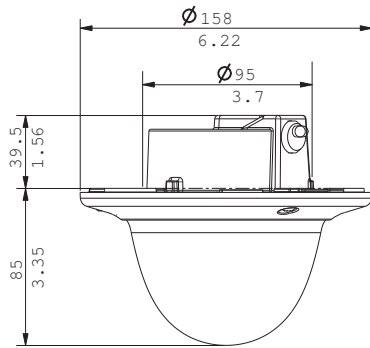
Dimensions in mm (in.)

VDA-445SMB-Surface Mount Box



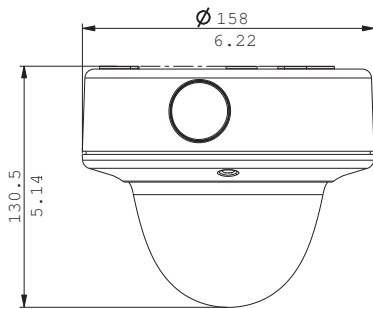
Dimensions in mm (in.) for the FlexiDome^{VF} low-impact, indoor surface mounting model

FlexiDome^{XT+} Impact-resistant, Indoor Flush Mounting Model



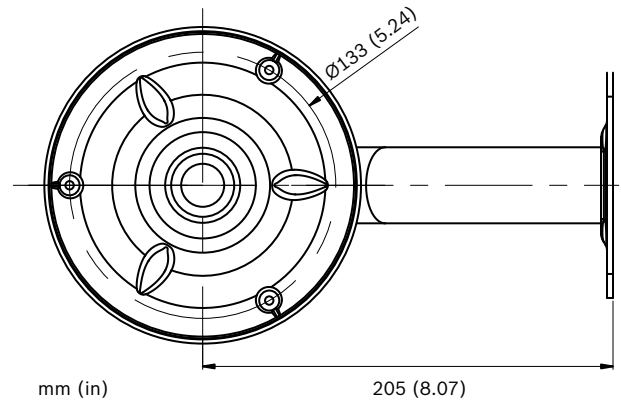
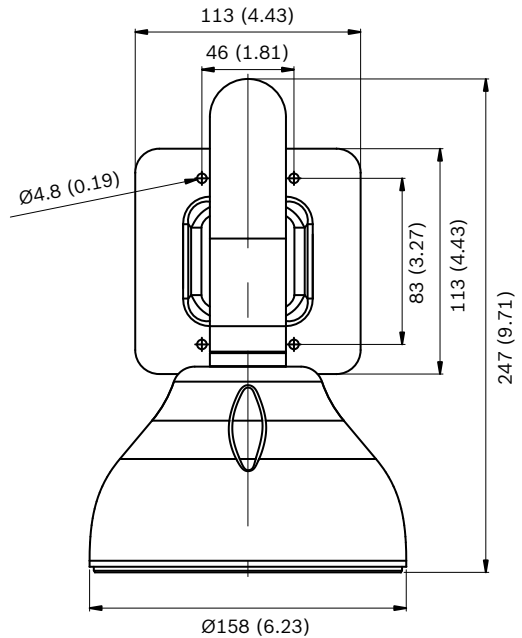
Dimensions in mm (in.)

VDA-455SMB -Hardened Surface Mount Box

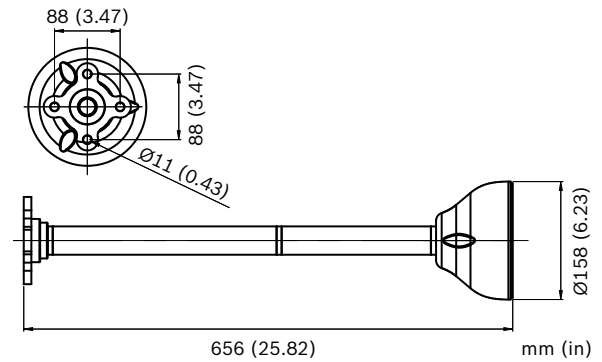


Dimensions in mm (in.) for the FlexiDome^{XT+} impact-resistant, surface mounting model

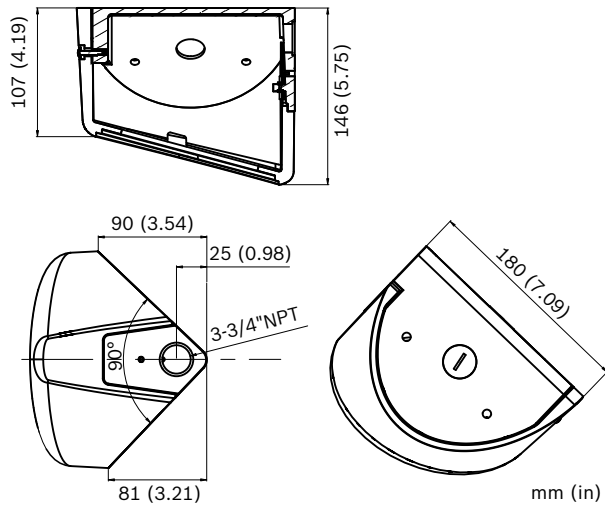
VDA-WMT-DOME -Pendant Wall Mount



VDA-PMT-DOME -Pipe Mount



VDA-CMT-DOME –Corner Mount



Technical specifications

Electrical

Power Supply	
Rated Voltage	12 VDC or 24 VAC, 50/60 Hz
Voltage Range	10.8 to 39 VDC or 12 to 28 VAC, 45 to 65 Hz
Power Consumption	
VDC-445	4 W
VDC-455	4 W (6 W with heater operation)
Imager	Interline transfer CCD, 1/3-inch image format
Active Picture Elements	
PAL Models	752 H x 582 V
NTSC Models	768 H x 494 V

Sensitivity (3200 K)

Model		Usable Picture (30 IRE)	Usable Picture (50 IRE)	Full Video (100 IRE)
VDC-445V03 VDC-455V03	Color	0.44 lx (0.041 fc)	0.98 lx (0.091)	3.9 lx (0.36)
	NightSense	0.18 lx (0.016 fc)	0.39 lx (0.036 fc)	1.6 lx (0.15 fc)
VDC-445V04 VDC-455V04	Color	0.58 lx (0.053 fc)	1.3 lx (0.12 fc)	5.1 lx (0.48 fc)
	NightSense	0.23 lx (0.021 fc)	0.5 lx (0.048 fc)	2.0 lx (0.19 fc)

VDC-445V09 VDC-455V09	Color	0.44 lx (0.041 fc)	0.98 lx (0.091)	3.9 lx (0.36)
	NightSense	0.18 lx (0.016 fc)	0.39 lx (0.036 fc)	1.6 lx (0.15 fc)

Resolution	540 TVL
Signal-to-noise Ratio	>50 dB
AGC	20 dB (max)
Auto Black	On/off selectable
Electronic Shutter	Flickerless, on/off
NightSense	Auto, forced, off selectable
Sharpness Correction	Horizontal and vertical, symmetrical
Backlight Compensation	Center window weighting, off selectable
White Balance	Automatic sensing (2500 to 9000 K) and hold
Video Output	Composite video 1.0 Vpp, 75 Ohm
Synchronization	Internal or LineLock*
Connector	Flying leads (through the back)

* Line-lock (only when AC-powered) synchronizes the camera to the power line zero crossing for roll-free vertical interval switching. Vertical phase delay can be adjusted (from 0° to 358°) to allow vertical synchronization in multi-phase power installations.

Optical

Varifocal	Manual zoom and focus adjustment
Iris Control	Automatic iris control
Viewing Angle	
2.6 to 6 mm	Wide: 98.5° x 75.3° (H x V) Tele: 48.1° x 36.2° (H x V)
4 to 9 mm	Wide: 68° x 50.2° (H x V) Tele: 32.1° x 24.1° (H x V)
3.7 to 12 mm	Wide: 76.1° x 55.8° (H x V) Tele: 23.8° x 17.9° (H x V)
9 to 22 mm	Wide: 31.2° x 22.8° (H x V) Tele: 12.8° x 9.6° (H x V)

Mechanical

Dimensions	See drawings
Weight	
VDC-445	440 g (1.1 lb)
VDC-455	740 g (1.63 lb)

Mounting	Flush on hollow surface with three (3) screws in a 4S electrical box
Color	White (RAL9010) trim ring with black inner liner
Adjustment Range	360° pan, 90° tilt, ±90° azimuth
Dome Bubble	Polycarbonate, clear with UV blocking anti-scratch coating
Trim Ring	Vandal resistant models: aluminum
	Low impact models: polycarbonate

Environmental

Operating temperature	
VDC-445	-10 °C to +45 °C (+14 °F to +113 °F)
VDC-455	-50 °C to +50 °C (-58 °F to +122 °F) (with heater 'ON')
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Humidity	5% to 93% relative humidity
Impact protection	IEC 60068-2-75 test Eh, 50 J;
	EN 50102, exceeding IK 10 (VDM-355 and VDC-455 models only)

Ordering information

VDC-445V03-10 Indoor Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/2.6-6 mm F1.4 Varifocal lens, white.
Order number **VDC-445V03-10**

VDC-445V03-10S Indoor Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/2.6-6 mm F1.4 Varifocal lens, white, surface mount
Order number **VDC-445V03-10S**

VDC-445V03-20 Indoor Color Model

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/2.6-6 mm F1.4 Varifocal lens, white
Order number **VDC-445V03-20**

VDC-445V03-20S Indoor Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/2.6-6 mm F1.4 Varifocal lens, white, surface mount
Order number **VDC-445V03-20S**

VDC-445V04-10 Indoor Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/4-9 mm F1.6 Varifocal lens, white
Order number **VDC-445V04-10**

VDC-445V04-10S Indoor Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/4-9 mm F1.6 Varifocal lens, white, surface mount
Order number **VDC-445V04-10S**

VDC-445V04-20 Indoor Color Model

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/4-9 mm F1.6 Varifocal lens, white
Order number **VDC-445V04-20**

VDC-445V04-20S Indoor Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/4-9 mm F1.6 Varifocal lens, white, surface mount
Order number **VDC-445V04-20S**

VDC-455V03-10 Vandal Resistant Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/2.6-6 mm F1.4 Varifocal lens, white
Order number **VDC-455V03-10**

VDC-455V03-10S Vandal Resistant Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/2.6-6 mm F1.4 Varifocal lens, white, surface mount
Order number **VDC-455V03-10S**

VDC-455V03-20 Vandal Resistant Color Model

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/2.6-6 mm F1.4 Varifocal lens, white
Order number **VDC-455V03-20**

VDC-455V03-20S Vandal Resistant Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/2.6-6 mm F1.4 Varifocal lens, white, surface mount
Order number **VDC-455V03-20S**

VDC-455V04-10 Vandal Resistant Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/3.7-12 mm F1.6 Varifocal lens, white
Order number **VDC-455V04-10**

VDC-455V04-10S Vandal Resistant Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12V DC/24 VAC, 50 Hz, w/3.7-12 mm F1.6 Varifocal lens, white, surface mount
Order number **VDC-455V04-10S**

VDC-455V04-20 Vandal Resistant Color Model

1/3-inch, NTSC color, 540 TVL, 12V DC/24 VAC, 60 Hz, w/3.7-12 mm F1.6 Varifocal lens, white
Order number **VDC-455V04-20**

VDC-455V04-20S Vandal Resistant Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12V DC/24 VAC, 60 Hz, w/3.7-12 mm F1.6 Varifocal lens, white, surface mount
Order number **VDC-455V04-20S**

VDC-445V09-10 Indoor Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/9-22 mm F1.4 Varifocal lens, white.
Order number **VDC-445V09-10**

VDC-445V09-20 Indoor Color Model

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/9-22 mm F1.4 Varifocal lens, white.
Order number **VDC-445V09-20**

VDC-445V09-10S Indoor Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/9-22 mm F1.4 Varifocal lens, white, surface mount.
Order number **VDC-445V09-10S**

VDC-445V09-20S Indoor Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/9-22 mm F1.4 Varifocal lens, white, surface mount.
Order number **VDC-445V09-20S**

VDC-455V09-10 Vandal Resistant Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/9-22 mm F1.4 Varifocal lens, white.
Order number **VDC-455V09-10**

VDC-455V09-20 Vandal Resistant Color Model

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/9-22 mm F1.4 Varifocal lens, white.
Order number **VDC-455V09-20**

VDC-455V09-10S Vandal Resistant Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/9-22 mm F1.4 Varifocal lens, white, surface mount.
Order number **VDC-455V09-10S**

VDC-455V09-20S Vandal Resistant Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/9-22 mm F1.4 Varifocal lens, white, surface mount.
Order number **VDC-455V09-20S**

Accessories**VDA-445DMY-S**

Flexidome surface mounted indoor dummy camera
Order number **VDA-445DMY-S**

VDA-445SMB

Surface mount box, indoor for VDM-345 and VDC-445
Order number **VDA-445SMB**

VDA-455SMB

Surface mount box, high impact for VDM-345, VDC-445, VDM-355, VDC-455, VDC-485 and VDN-495 (not for FlexiDome VF).
Order number **VDA-455SMB**

VDA-455UTP

Adaptor for UTP twisted pair output
Order number **VDA-455UTP**

S1460 Service/Monitor Cable

2.5 mm connector to BNC for analog and IP cameras, 1 m
Order number **S1460**

UPA-1509-60 Power Supply

120 VAC, 60 Hz, 15 VDC, 9 VA Out
Order number **UPA-1509-60**

UPA-1509-50 Power Supply

220 VAC, 50 Hz, 15 VDC, 9 VA Out
Order number **UPA-1509-50**

UPA-2420-50 Power Supply

220 VAC, 50 Hz, 24 VAC, 20 VA Out
Order number **UPA-2420-50**

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

Indoor, 220 VAC, 50 Hz In; 24 VAC, 50 VA Out
Order number **UPA-2450-50**

VDA-455TBL Tinted bubble

Tinted bubble for FlexiDome series
Order number **VDA-455TBL**

VDA-455CBL Clear bubble

Clear Bubble for FlexiDome series
Order number **VDA-455CBL**

VDA-WMT-DOME Wall Pendant Mount Bracket

Wall pendant mount bracket for FlexiDome cameras
Order number **VDA-WMT-DOME**

VDA-CMT-DOME Corner Mount Bracket

Corner mount bracket for FlexiDome cameras
Order number **VDA-CMT-DOME**

VDA-PMT-DOME Pendant Pipe Mount Bracket

Pendant pipe mount bracket for FlexiDome cameras
Order number **VDA-PMT-DOME**

Software Options**VP-CFGSFT Configuration Software**

for cameras using Bilinx, includes VP-USB Adaptor
Order number **VP-CFGSFT**

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