# VDC-485 Series Dome Cameras FlexiDome XF

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- ▶ High impact, vandal-resistant, weatherproof housing
- ▶ NightSense for low light conditions
- ▶ 15-bit DSP technology
- ▶ XF-Dynamic for wide dynamic range
- ▶ 540 TVL color resolution

The FlexiDome<sup>XF</sup> series are the ultimate solutions for virtually any indoor or outdoor surveillance application. These color dome cameras are high-performance, vandal-resistant units with NightSense. The cast-aluminum housing, polycarbonate dome, and hardened inner liner can withstand the equivalent of 55 kg (120 lbs) of force. The enclosure contains full-featured color cameras with 1/3-inch CCD and integral varifocal lenses. Ideal for outdoor use, the cameras are protected against water and dust to IP 66 (NEMA-4X) standards.

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 the exact field of view. Mounting options are numerous, including surface, 4S (USA), wall, corner and suspended ceiling.

The FlexiDome<sup>XF</sup> cameras are an ideal solution for many surveillance applications, even under the most challenging lighting conditions. Their compact, sleek design and virtually flush-mount appearance will complement any decor. The camera enclosure

provides the extra protection necessary for applications such as in schools, banks, prisons, parking garages, retail and industrial buildings.

### **Functions**

### Technology

The FlexiDome<sup>XF</sup> series incorporate the latest technology adopted from the high-performance Dinion<sup>XF</sup> Color cameras. This technology ensures the highest possible image quality at all times and under all conditions. Based on a unique combination of 15-bit digital video processing and XF-dynamic, these cameras provide excellent sensitivity, with up to 32x extended dynamic range. This delivers a sharper, more detailed image with outstanding accuracy in color reproduction.

### Operation

All cameras feature video motion detection, auto black, default shutter and back light compensation for optimum performance in all lighting conditions. The lens wizard and focus aid make lens adjustment easy and straightforward, and ensure proper focus throughout the 24-hour cycle. All cameras incorporate

Bilinx, a technology that allows technicians to set up, control the camera settings, and even update firmware remotely over the video cable.

### **Controls and Indicators**

- OSD
- 5-key operation

### Interconnections

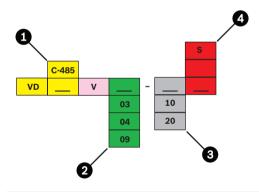
- · Video connection BNC on flying lead
- · Power connection on flying leads

## 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

Region	Certific	cation
Europe	CE	
USA	FCC	Declaration of Conformity VDx 355-455-485-495

### Installation/configuration notes



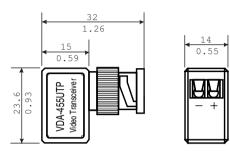
1		
	C-485	Color (with NightSense)
2	03	3 to 9.5 mm F1.0 (Color version)
	04	3.7 to 12 mm F1.6
	09	9 to 22 mm F1.4
3	10	PAL color or CCIR mono
	20	NTSC color or EIA mono
4		Flush mount
	S	Surface mount

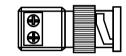
### FlexiDome<sup>XF</sup> model overview

Model	Standard	Lens
VDC-485V03-10	PAL	3 to 9.5 mm F1.0

VDC-485V03-20	NTSC	3 to 9.5 mm F1.0
VDC-485V04-10	PAL	3.7 to 12 mm F1.6
VDC-485V04-20	NTSC	3.7 to 12 mm F1.6
VDC-485V09-10	PAL	9 to 22 mm F1.4
VDC-485V09-20	NTSC	9 to 22 mm F1.4

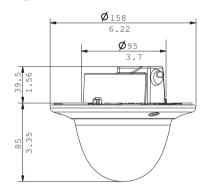
### **BNC to UTP Transceiver**





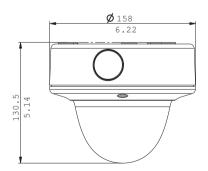
Dimensions in mm (in.)

### **Flush Mounting**



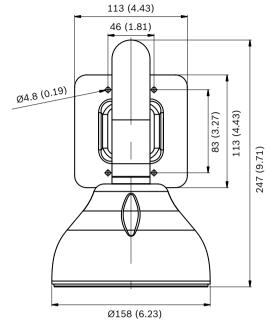
Dimensions in mm (in.)

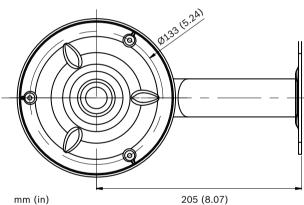
### **VDA-455SMB-Surface Mount Box**



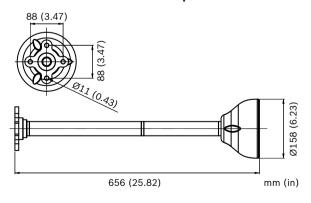
Dimensions in mm (in.) for surface mounting

### **VDA-WMT-DOME -Pendant Wall Mount**

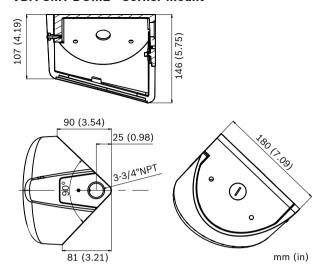




### **VDA-PMT-DOME -Pendant Pipe Mount**



### **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 4 W (6 W with heater operating)
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	Usable picture	Full video
		(30 IRE)	(50 IRE)	(100 IR E)
Color				
VDC-485V03	Color	0.16 lx (0.015 fc)	0.35 lx (0.033 f c)	1.4 lx (0.13 fc )
	Color + 10 x SensUp	0.016 lx (0.0015 f c)	0.035 lx (0.0033 )	0.14 lx (0.013 f c)
	NightSense	0.056 lx (0.0052 f c)	0.13 lx (0.012)	0.5 lx (0.046)
	NightSense + 10 x SensUp	0.0056 lx (0.00052f c)	0.013 lx (0.0012 )	0.05 lx (0.0046 )

VDC-485V04	Color	0.4 lx (0.037 fc)	0.9 (0.083)	3.6 (0.33)
	Color + 10 x SensUp	0.04 lx (0.0037 f c)	0.09 (0.0083 )	0.36 (0.033)
	NightSense	0.14 lx (0.013 fc)	0.32 (0.03)	1.3 (0.12)
	NightSense + 10x SensUp	0.014 lx (0.0013 f c)	0.032 (0.003)	0.13 (0.012)
VDC-485V09	Color	0.28 lx (0.027 fc)	0.62 lx (0.058 f c)	2.48 lx (0.23 fc )
	Color + 10 x SensUp	0.028 lx (0.0027 f c)	0.062 lx (0.0058 )	0.248 lx (0.023 f c)
	NightSense	0.099 lx (0.0092 f c)	0.23 lx (0.021)	0.88 lx (0.081)
	NightSense + 10 x SensUp	0.0099 lx (0.00092 )	0.023 lx (0.0021	0.088 lx (0.0081

s up to 10 x, off
selectable 28 dB
selectable 28 dB
selectable 28 dB
efault shutter
ctable
color selectable
nhancement
able
al, symmetrical
indow and level
500 to 9000 K), AWB
civity selectable
e string, position
Vpp, 75 ohm
communication

Synchronization	Internal or LineLock*
Connector	Flying leads (through the back)

<sup>\*</sup> LineLock (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	
3 to 9.5 mm	Wide 95° x 69° (H x V)
	Tele 30.2° x 22.6° (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	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	Aluminum

### **Environmental**

Operating temperature	-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

### **Ordering information**

### VDC-485V03-10 Vandal Resistant Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/3-9.5 mm F1.0 Varifocal lens, white Order number **VDC-485V03-10** 

# VDC-485V03-10S Vandal Resistant Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/3-9.5 mm F1.0 Varifocal lens, white, surface mount Order number **VDC-485V03-10S** 

#### VDC-485V03-20 Vandal Resistant Color Model

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/3-9.5 mm F1.0 Varifocal lens, white Order number **VDC-485V03-20** 

# VDC-485V03-20S Vandal Resistant Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/3-9.5 mm F1.0 Varifocal lens, white, surface mount Order number VDC-485V03-20S

#### VDC-485V04-10 Vandal Resistant Color Model

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/3.7-12 mm F1.4 Varifocal lens, white Order number **VDC-485V04-10** 

# VDC-485V04-10S Vandal Resistant Color Model, Surface Mount

1/3-inch, PAL color, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/3.7-12 mm F1.4 Varifocal lens, white, surface mount Order number **VDC-485V04-10S** 

#### VDC-485V04-20 Vandal Resistant Color Model

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/3.7-12 mm F1.4 Varifocal lens, white Order number **VDC-485V04-20** 

# VDC-485V04-20S Vandal Resistant Color Model, Surface Mount

1/3-inch, NTSC color, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/3.7-12 mm F1.4 Varifocal lens, white, surface mount Order number **VDC-485V04-20S** 

### VDC-485V09-10 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-485V09-10** 

### VDC-485V09-20 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-485V09-20** 

# VDC-485V09-10S 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-485V09-10S** 

# VDC-485V09-20S 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-485V09-20S** 

### VDN-495V03-10 Vandal Resistant Day/Night Model

1/3-inch, PAL D/N, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/ 3-9 mm F1.4 Varifocal lens, white Order number **VDN-495V03-10** 

# VDN-495V03-10S Vandal Resistant Day/Night Model, Surface Mount

1/3-inch, PAL D/N, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/ 3-9 mm F1.4 Varifocal lens, white, surface mount Order number **VDN-495V03-10S** 

# VDN-495V03-10SF Vandal Resistant Day/Night Model, Surface Mount, French

1/3-inch, PAL D/N, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/ 3-9 mm F1.4 Varifocal lens, white, surface mount, French

Order number VDN-495V03-10SF

# VDN-495V03-20 Vandal Resistant Day/Night Model

1/3-inch, NTSC D/N, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/3-9 mm F1.4 Varifocal lens, white Order number VDN-495V03-20

# VDN-495V03-20S Vandal Resistant Day/Night Model, Surface Mount

1/3-inch, NTSC D/N, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/3-9 mm F1.4 Varifocal lens, white, surface mount Order number VDN-495V03-20S

### VDN-495V09-10 Vandal Resistant Day/Night Model

1/3-inch, PAL D/N, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/ 9-22 mm F1.4 Varifocal lens, white Order number **VDN-495V09-10** 

### VDN-495V09-20 Vandal Resistant Day/Night Model

1/3-inch, NTSC D/N, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/9-22 mm F1.4 Varifocal lens, white Order number **VDN-495V09-20** 

### VDN-495V09-10S Vandal Resistant Day/Night Model

1/3-inch, PAL D/N, 540 TVL, 12 VDC/24 VAC, 50 Hz, w/ 9-22 mm F1.4 Varifocal lens, white, surface mount. Order number **VDN-495V09-10S** 

### VDN-495V09-20S Vandal Resistant Day/Night Model

1/3-inch, NTSC D/N, 540 TVL, 12 VDC/24 VAC, 60 Hz, w/9-22 mm F1.4 Varifocal lens, white, surface mount. Order number **VDN-495V09-20S** 

### **Accessories**

### 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,

Order number \$1460

### **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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