

IP Open Standards Outdoor Cameras

Dome and bullet cameras with motorized varifocal lens technology



OVERVIEW

TruVision™ IP and IP Megapixel Open Standards outdoor dome and bullet cameras bring state-of-the-art, high-definition images to the mass video surveillance market. Designed to adhere to PSIA and ONVIF open communication standards, these cameras also support a CGI command set for simple integration into any IP system. VGA and 1.3MPx resolution options provide the flexibility for a wide variety of applications.

Featuring innovative motorized varifocal lens technology, TruVision cameras allow the user to remotely adjust the varifocal lens length and focus the camera with the touch of a button. H.264 compression with dual-streaming capability makes it easy to manage the camera's bandwidth usage. Video streams can be set for high and low bandwidth and images can be streamed for live viewing or sent to a designated recording location.

An integrated browser and micro SDHC memory card storage capabilities (dome models) simplify remote, live monitoring/playback of edge-recorded video and audio. Memory card recording protects data in the event of network disruptions.

STANDARD FEATURES

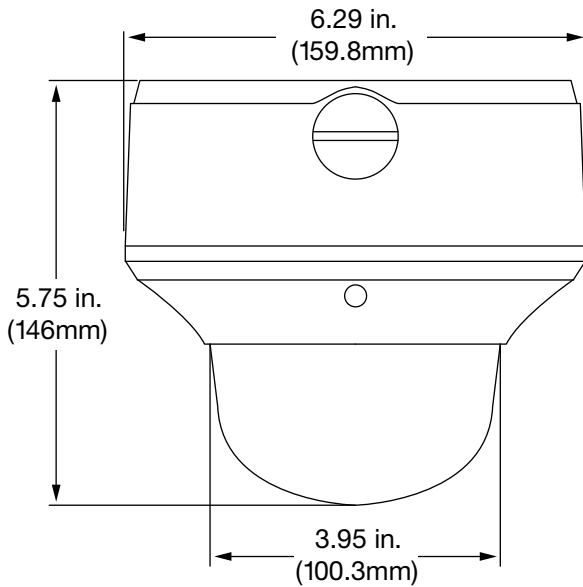
- VGA and 1.3MPx resolution options
- Motorized varifocal lens technology provides remote autofocus
- Designed to PSIA and ONVIF open standards
- 1.3MPx models feature WDR and real-time video streaming up to 720p resolution to capture every detail
- H.264 compression technology with dual-streaming capability accommodates multiple settings
- Dome models feature edge recording up to 32GB micro SDHC card for video playback
- All models offer true day/night functionality and infrared illuminators for capturing images in various lighting scenarios
- Integrated motion detection and privacy masking
- IP66 vandal-resistant housings
- Dome models feature external analog BNC video out connection for easier installation and setup
- Dome models feature integrated heater for low-temperature operation
- Included TruVision Device Finder program provides fast and easy access to newly added system devices

Application

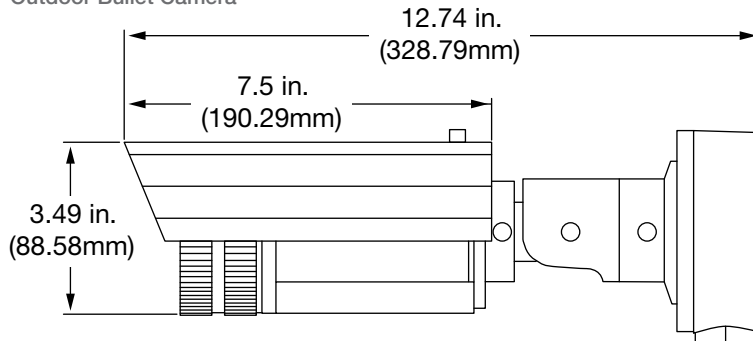
TruVision™ IP and IP Megapixel outdoor cameras are specifically designed for applications that require high-quality IP images. When paired with IP devices, these cameras provide ideal surveillance for environments such as retail, banking, education, airports or gaming, where detailed image capture is critical for effectively monitoring people and transactions.

Dimensional Diagrams





Outdoor Vandal Dome



Outdoor Bullet Camera



Specifications

	PART NO.	TVD-N225E-2M-N (-P)	TVD-M1245E-2M-N (-P)	TVC-N225E-2M-N (-P)	TVC-M1245E-2M-N (-P)
	Description				
Camera	Sensor Size	1/4"	1/3"	1/4"	1/3"
	Resolution	VGA	1.3 MPx	VGA	1.3 MPx
	Sensor Scan	Progressive Scan			
	Sensor Type	CMOS			
	IP Compression/Standard	H.264/MPEG4/MJPEG			
	Maximum Resolution (@ FPS)	640 x 480 (30/25fps)	1280 x 960 (30/25fps)	640 x 480 (30/25fps)	1280 x 960 (30/25fps)
	Maximum Real-Time Resolution	640 x 480	1280 x 960	640 x 480	1280 x 960
	HD 720p	No	Yes	No	Yes
	Composite Output (BNC)	Yes	Yes	No	No
	Digital S/N Ratio	60dB	68.3dB	60dB	68.3dB
	Electronic Shutter	1/25s to 1/100,000s			
Certification	CE/FCC/UL				
Lighting Performance	Wide Dynamic Range	No	WDR	No	WDR
	WDR in dB	82dB	120dB	82dB	120dB
	Digital Noise Reduction	2D	3D	2D	3D
	Day/Night	IR cut filter with auto switch			
	Motorized IR Cut Filter	Yes			
	Color Sensitivity	0.01Lux @ (F1.2, AGC On)			
	B/W Sensitivity	0.01Lux @ (F1.2, AGC On)			
	IR Sensitivity	0 Lux with IR			
	IR Range	10 meters		25 meters	
	IR Wavelength	850nm			
B/W Trigger	3 Lux				
IR Trigger	3 Lux				
Housing	Camera Type	Dome Camera		Bullet Camera	
	IP Rating	IP66			
	Outdoor	Yes			
	Rugged	Yes			
	Vandal Proof	Yes			
Lens	Control Type	Motorized			
	Focal Length	2.8 - 12mm @ F1.2	2.7 - 9mm @ F1.6	2.8 - 12mm @ F1.2	2.7 - 9mm @ F1.6
	Autoiris	DC Drive			
	Varifocal	Yes			
	Autofocus	Yes			
Power	Voltage Input	24VAC	24VAC	12VDC	12VDC
	Power Consumption	Max. 24W		Max. 12W	
	PoE	PoE (802.3af) High PoE (802.3at)	PoE (802.3af) High PoE (802.3at)	PoE (802.3af)	PoE (802.3af)
Network	ONVIF	Yes			
	PSIA	Yes			
	CGI	Yes			
	Network Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP			
Local Storage	Media	Built-in Micro SD	Built-in Micro SD	No	No
	Capacity	32 GB	32 GB	No	No
Camera Analytics	Motion Detection	Yes			
	Privacy Masking	Yes			
Mechanical/Environmental	Dimensions	6.29 x 5.75 in. (159.8 x 146mm)		3.86 x 3.49 x 12.94 in. (98 x 88.58 x 328.78mm)	
	Weight	2100 g (3.09 lbs)		1700 g (3.75 lbs)	
	Operating Temperature	-50°C to 60°C (-58°F - 140°F) with heater*		-30°C to 60°C (-22°F - 140°F)	
	Operating Temperature (Cold Start)	-40°C to 60°C (-40°F - 140°F) with heater*		-10°C to 60°C (-14°F - 140°F)	

*Domes with heaters require 24VAC or PoE+ (802.3at) power input for heaters to function. Standard PoE (802.3af) can be used if heater function is not required.

IP Open Standards Outdoor Cameras

North America
T 855-286-8889

Asia
T 852-2907-8108

Australia
T 61-3-9239-1200

Europe
T 32-2-725-11-20

Latin America
T 561-998-6114

Dome and bullet cameras with motorized varifocal lens technology

Ordering Information

TVD-N225E-2M-N	TruVision™ VGA IP Open STD, Progressive Scan CMOS Outdoor Vandal Dome, True D/N, 2.8-12mm Motorized AI, IR LED, ONVIF/PSIA, NTSC Out, PoE/PoE+/24VAC, Micro SD Card Slot, Heater
TVD-N225E-2M-P	TruVision VGA IP Open STD, Progressive Scan CMOS Outdoor Vandal Dome, True D/N, 2.8-12mm Motorized AI, IR LED, ONVIF/PSIA, PAL Out, PoE/PoE+/24VAC, Micro SD Card Slot, Heater
TVD-M1245-E-2M-N	TruVision 1.3MPX WDR IP Open STD, Progressive Scan CMOS Outdoor Vandal Dome, True D/N, 2.7-9mm Motorized AI, IR LED, ONVIF/PSIA, NTSC Out, PoE/PoE+/24VAC, Micro SD Card Slot, Heater
TVD-M1245-E-2M-P	TruVision 1.3MPX WDR IP Open STD, Progressive Scan CMOS Outdoor Vandal Dome, True D/N, 2.7-9mm Motorized AI, IR LED, ONVIF/PSIA, PAL Out, PoE/PoE+/24VAC, Micro SD Card Slot, Heater
TVC-N225E-2M-N	TruVision VGA Open STD, Progressive scan CMOS Outdoor Bullet, True D/N, 2.8-12mm Motorized AI, IR LED, ONVIF/PSIA, NTSC Frame Rate, PoE/12VDC
TVC-N225E-2M-P	TruVision VGA IP Open STD, Progressive Scan CMOS Outdoor Bullet, True D/N, 2.8-12mm Motorized AI, IR LED, ONVIF/PSIA, NTSC Frame Rate, PoE/12VDC
TVC-M1245-E-2M-N	TruVision 1.3MPX WDR IP Open STD, Progressive Scan CMOS Outdoor Bullet, True D/N, 2.7-9mm Motorized AI, IR LED, ONVIF/PSIA, PAL Frame Rate, PoE/12VDC
TVC-M1245-E-2M-P	TruVision 1.3MPX WDR IP Open STD, Progressive Scan CMOS Outdoor Bullet, True D/N, 2.7-9mm Motorized AI, IR LED, ONVIF/PSIA, PAL Frame Rate, PoE/12VDC



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210-3601 2012/10 (72342)