

IP Open Standards Outdoor Cameras

Dome and bullet cameras with motorised 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, 1.3, 3 and 5MPx resolution options provide the flexibility for a wide variety of applications.

Featuring innovative motorised 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.

An integrated browser and micro SD 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

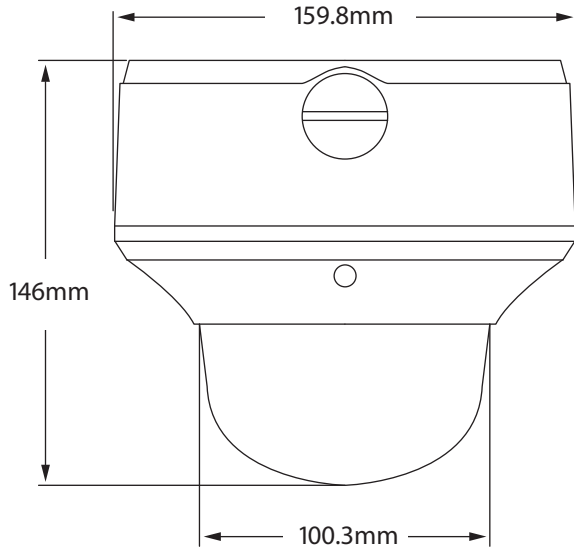
- VGA, 1.3, 3 and 5MPx resolution options
- Motorised varifocal lens technology provides remote autofocus
- Designed to PSIA and ONVIF open standards
- Select models feature WDR and/or real-time video streaming up to 1080p resolution to capture every detail
- H.264 compression technology with dual-streaming capability accommodates multiple settings
- Dome models feature edge recording up to 32GB micro SD card for video playback (card not included)
- 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 integrated heater for low-temperature operation
- Included TruVision Device Finder program provides fast and easy access to newly added system devices

APPLICATION

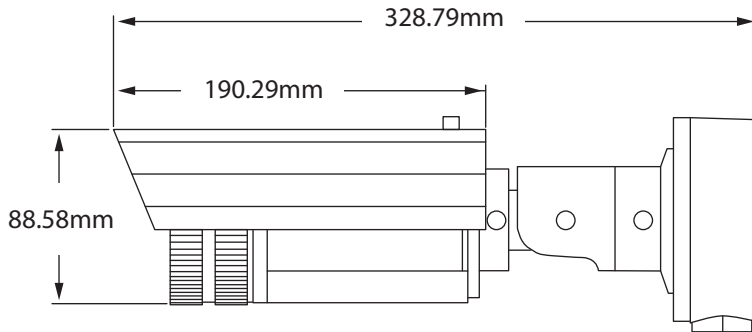
TruVision™ IP and IP Megapixel outdoor cameras are specifically designed for applications that require high-quality IP images. When paired with IP devices, these cameras provide ideal surveillance for environments such as retail, banking, education, airports or gaming, where detailed image capture is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

DIMENSIONAL DIAGRAMS









Outdoor Vandal Dome



Outdoor Bullet Camera



SPECIFICATIONS

	TVD- N225E-2M-P	TVD- M1245E-2M-P	TVD- M3245E-2M-P	TVD- M5225E-3M-P	TVC- N225E-2M-P	TVC- M1245E-2M-P	TVC- M3245E-2M-P	TVC- M5225E-3M-P	
									
Camera	Sensor Size	1/4"	1/3"	1/3"	1/2.5"	1/4"	1/3"	1/3"	1/2.5"
	Resolution	VGA	1.3 MPx	3 MPx	5 MPx	VGA	1.3 MPx	3 MPx	5 MPx
	Sensor scan	Progressive Scan							
	Sensor type	CMOS							
	IP Compression/ Standard	H.264 / MPEG4 / MJPEG							
	Maximum Resolution (@FPS)	640 x 480 (25/30fps)	1280 x 960 (25/30fps)	2048 x 1536 (25/30fps)	2560 x 1920 (25/30fps)	640 x 480 (25/30fps)	1280 x 960 (25/30fps)	2048 x 1536 (25/30fps)	2560 x 1920 (25/30fps)
	Maximum Real Time Resolution	640 x 480	1280 x 960	1920 x 1080	1920 x 1080	640 x 480	1280 x 960	1920 x 1080	1920 x 1080
	HD 720p	No	Yes	Yes (HD1080P)	Yes (HD1080P)	No	Yes	Yes (HD1080P)	Yes (HD1080P)
	Composite Output (BNC)	Yes	Yes	Yes	Yes	No	No	No	No
	Digital S/N ratio	60dB	68.3dB	60dB	60dB	60dB	68.3dB	60dB	60dB
	Electronic Shutter	1/25s to 1/100,000s 1/30s to 1/100,000s							
Certification	CE/FCC/UL/C-Tick								
Lighting Performance	Wide Dynamic Range	No	WDR	WDR	No	No	WDR	WDR	No
	WDR in dB	N/A	120dB	120dB	N/A	N/A	120dB	120dB	N/A
	Digital noise reduction	2D	3D	3D	2D	2D	3D	3D	2D
	Day/Night	IR cut filter with auto switch							
	Motorised IR Cut Filter	Yes							
	Colour sensitivity	0.01Lux @ (F1.2, AGC ON)			0.6Lux @ (F1.2, AGC ON)	0.01Lux @ (F1.2, AGC ON)			0.6Lux @ (F1.2, AGC ON)
	B/W sensitivity	0.01Lux @ (F1.2, AGC ON)							
	IR sensitivity	0 Lux with IR							
	IR Range	10 metres				25 metres			
	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 resistant	Yes				No			
Lens	Control type	Motorised							
	Focal length	2.8 - 12mm @ F1.2	2.7 - 9mm @ F1.6	2.7 - 9mm @ F1.6	3.5 - 9mm @ F1.6	2.8 - 12mm @ F1.2	2.7 - 9mm @ F1.6	2.7 - 9mm @ F1.6	3.5 - 9mm @ F1.6
	Auto iris	DC drive							
	Varifocal	Yes							
	Zoom Lens	4.26	3.33	3.33	2.57	4.26	3.33	3.33	2.57
	Autofocus	DC Drive							
Power	Voltage input	24VAC				12VDC			
	Power consumption	Max. 24W				Max. 12W			
	PoE	High PoE (802.3at)				High PoE (802.3af)			
Network	ONVIF	Yes							
	PSIA	Yes							
	CGI	Yes							
	Network protocols	TCIP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP							
Local Storage	Media	Built-in Micro SD				No			
	Capacity (Micro SD card not included)	32GB				No			
Camera Analytics	Motion Detection	Yes							
	Privacy Masking	Yes							
Mechanical / Environmental	Dimensions	159.8 x 146mm				98 x 88.58 x 328.78mm			
	Weight	2100g				1700g			
	Operating temperature (cold start)	-40°C a 60°C with heater and fan on*				-10°C - 60°C			

* 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.

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ORDERING INFORMATION

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-M1245E-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
TVD-M3245E-2M-P	TruVision 3.0MPX 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
TVD-M5225E-3M-P	TruVision 5.0MPX IP Open STD, Progressive Scan CMOS Outdoor Vandal Dome, True D/N, 3.5-9mm Motorized AI, IR LED, ONVIF/PSIA, PAL Out, PoE/PoE+/24VAC, Micro SD Card Slot, Heater
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, PAL Frame Rate, PoE/12VDC
TVC-M1245E-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
TVC-M3245E-2M-P	TruVision 3.0MPX 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-M5225E-3M-P	TruVision 5.0MPX IP Open STD, Progressive Scan CMOS Outdoor Bullet, True D/N, 3.5-9mm Motorized AI, IR LED, ONVIF/PSIA, PAL Frame Rate, PoE/12VDC

ACCESSORIES

MPP168	Power Supply, 12VDC, 1AMP 2.5MM Stripped
T2420S/T	Power Supply, 24VAC 2AMP, Stripped

Specifications subject to change without notice.

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