Product Data Sheet

UTC Fire & Security
A United Technologies Company

TVD-1203

1.3 MPX HD Outdoor IR Dome Camera, Motorized 2.8 to 12mm, PAL

Overview

The TruVision IP Megapixel Open Standards box cameras bring state-of-the-art, high-definition pictures to the mass video surveillance market. With camera resolutions of 1.3 or 3 megapixel, these IP cameras represent a flexible video surveillance device to meet any need. Equipped with advanced technology and signal processing capability, they effectively capture video under challenging conditions.These cameras provides an ideal surveillance for environments such as retail, banking, airports or gaming where detailed image capture is critical for effectively monitoring people and transactions.

Compression & streaming

TruVision cameras utilize H.264 compression technology with triple-streaming capability, making it easy to manage the camera's bandwidth usage. These cameras were designed to adhere to PSIA and ONVIF S open communication standards, and support a CGI command set for simple integration into any IP system. 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.

Additional Features

TruVision IP Megapixel cameras simplify remote, live monitoring/playback of edge-recorded video. Recording on the micro SD/SDXC memory card provides a level of redundancy in case of unforeseen network disruptions.These cameras also feature alarm inputs and outputs. Privacy masking conceals sensitive scenes and safeguards confidential areas from being observed during live view and recorded on the video file.

Included, is a suite of intelligence features that provides enhanced alarm capabilities that go above and beyond standard motion detection. Examples include: Cross Line Detection, Intrusion Detection, De-focus Detection and Face Detection and more. Each of these features are user-configurable to best suit the installation environment. Additional advanced non-alarm enhancements include the Region of Interest function that ensures specific portions of an image are given priority in terms of video imaging during instances of high network traffic or network degradation.

Installation

Special functions are available to assist in providing the best use of your TruVision camera. Included are Hallway View mode to provide a portrait view of a hallway or corridor, De-fog mode to help resolve images though fog or rain and Electronic Image Stabilization for installations subject to vibration.

Standard Features

- Maximum Resolution: 1280x960 @ 25 fps
- Maximum Real Time Resolution: 1280x960 @ 25 fps, 1280 x 720 @ 50fps (50Hz, WDR off)
- Designed to PSIA and ONVIF S open standards
- H.264 compression with triple-streaming functionality
- Edge recording up to 64GB SDHC card
- 1/3" CMOS image sensor
- Motorized IR Cut Filter
- 0.01 Lux (Color)
- Motorized 2.8 to 12mm lens
- Up to 30m IR illumination
- Up to 120dB Wide Dynamic Range
- ROI (Region of Interest)
- Intelligence (Face detection, audio exception detection, cross line, intrusion detection, de-focus, scene change detection)
- Auto Back Focus

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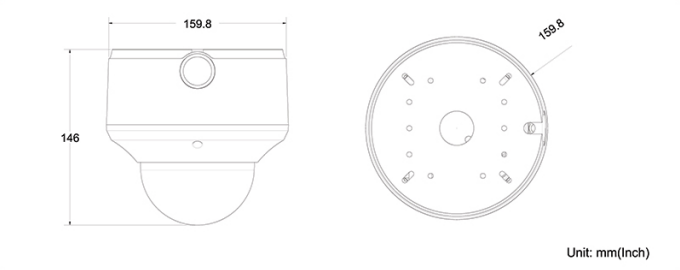
Specifications

Camera	
Sensor:	1.3 MPx 1/3" Progressive Scan CMOS
Day/Night:	Motorized IR Cut Filter
IP Compression/Standard:	H.264 (Baseline profile / Main profile/ High profile)/MPEG4/MJPEG
Maximum Resolution (@ FPS):	1280 X 960 (25 FPS) 1280 x 720 @ 50fps (50Hz, WDR off)
Maximum Real Time Resolution (@ FPS):	1280 x 960 @ 25fps (50Hz) 1280 x 720 @ 50fps (50Hz, WDR off)
Multiple Streaming:	Triple Streams
Video Bit Rate:	128Kbps to 16 Mbps, adjustable
S/N Ratio:	50 dB (AGC OFF)
Auto Exposure (shutter):	50 Hz: 1s - 1/100,000s
Internal BNC port for installation only:	Yes
Lighting performance	
Wide Dynamic Range	WDR
WDR in dB	120dB
Digital noise reduction	3D DNR
Highlight compensation (HLC)	NA
Day/Night	True D/N
Motorized IR Cut Filter	Yes
Color sensitivity	0.01 lux @ f1.2, AGC ON
B/W sensitivity	0 lux with IR
IR sensitivity	0 lux with IR
IR Range	Up to 30 m
IR Wavelength	850nm
B/W trigger	2.8 lux
IR trigger	2.8 lux
Lens	
Control type:	DC
Focal length:	2.8 to 12mm
F-stop:	1.4
Autoiris:	Yes
Varifocal:	Yes
Zoom lens:	Motorized
Autofocus:	Yes
Electrical	
Voltage Input:	24 VAC, PoE (IEEE 802.3af)
Power Consumption:	Max. 13 W (heater on)
I/O Connection:	2/2
Network	
Network Protocols:	TCP/IP, UDP, HTTP, DHCP, DNS, DDNS, ezDDNS, DynDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, UPnP, NAT, MULTICAST, 802.1x, Qos, IPv4, IPv6
PoE IEEE:	802.3af
Standard & Integration	ONVIF S, PSIA, CGI
LocalStorage	
Media:	Micro SD/SDXC
Capacity:	Up to 64GB
Camera Alarm	
Basic:	Motion Detection, Tamper Proof, Privacy Mask
Advanced:	Face Detection, Audio Exception Detection, Cross Line, Intrusion Detection, De-focus, Scene Change Detection
Display	
Display mode:	ROI (Region of Interest), Hallway View, Mirror, De-fog, Electronic Image Stabilization
OSD:	Text overlay and picture overlay
Mechanical/ Environmental	
Camera type:	Dome
Dimensions:	159.8 × 146 mm (6.29 × 5.75 in.)
Weight:	2100g (4.63 lbs.)
Storage Temperature:	-20° to 70°C (-4° to 158°F)
Operating Temperature:	-40° to 60°C (-40° to 140°F) with heater on
Environmental Rating:	IP66
Vandal Rating:	IK10
Outdoor:	Yes
Regulation	
Compliance:	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE
Accessories	
Brackets:	TVD-CB5A

Ordering Information

Part No.	Description
TVD-1203	1.3 MPX HD Outdoor IR Dome Camera, Motorized 2.8 to 12mm, PAL
TVD-1204	3 MPX Full HD Outdoor IR Dome Camera, Motorized 2.8 to 12mm, PAL
TVD-1205	3 MPX Full HD Outdoor IR Dome Camera, Motorized 8 to 32mm, PAL



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