TVB-5404

TruVision IP Bullet Camera, H.265/H.264, 3.0MPX, 8 to 32mm motorized lens, WDR, True D/N, 80m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, POE (802.3-af) /12VDC, Heater,

Overview

The TruVision line of IP bullet form factor cameras leverages the latest H.265 video compression technology to bring state of-the-art, high-definition pictures to the mass video surveillance market. With camera resolutions of 2, 3, or 5 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.

TruVision cameras utilize H.264 and/or H.265 compression technology with triple-streaming capability, making it easy to manage the camera's bandwidth usage. Motorized varifocal lens technology allows the user to remotely adjust the varifocal lens length and focus the camera with the touch of a button. Select models feature Super Low Light technology, which provides a clear image in low lighting conditions with a minimum of "grainy" interference. Recording to a local MicroSD card (not included) protects data in the event of network disruptions.

These cameras go above and beyond standard motion detection with enhanced alarm capabilities, including cross lines, intrusion, de-focus and face detection features. Each is user-configurable to best suit the installation environment. A Region of Interest function ensures specific portions of an image are given priority during instances of high network traffic or network degradation.

Location-specific functions include a Hallway View Mode to provide a portrait view of a hallway or corridor, a De-Fog Mode to help resolve images though fog or rain and Electronic Image Stabilization for installations subject to physical vibration or shaking.

Details

- Maximum Resolution: 2048 × 1536
- Maximum Real Time Resolution: 2048 × 1536 @ 25 fps
- Designed to PSIA and ONVIF Profile G and S open standards
- H.265 and/or H.264 compression with triple-streaming functionality
- Edge recording up to 128GB SDHC card
- 1/2.8" CMOS image sensor
- Motorized IR Cut Filter
- Low Light: Color: 0.008 Lux @ (F1.2, AGC ON), 0 Lux IR ON
- Motorized Lens 8 to 32mm
- Up to 80m IR illumination
- Up to 120dB Wide Dynamic Range
- Intelligence (Face detection, Audio Exception Detection, Intrusion Detection, De-focus Detection, Region of Interest (ROI), Electronic Image Stabilization (EIS), Defog, Scene Change Detection, Cross Line Detection, Advanced Motion Detection, Region Entrance Detection, Region ExitDetection, Object Removal, Object Left Behind, Object Counting)

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Technical specifications

General

Technology	IP
Image settings	Hallway View, Mirror, ROI (Region Of Interest)
Video output	BNC Composite PAL / NTSC
Software compatibility	OnGuard, Prism, TruVision Navigator, TVRmobile, Web Browser

Camera

Sensor size	1/2.8"
Max. resolution	3 MP
Sensor scan	Progressive
Sensor type	CMOS
Total Pixels (H x V)	2048 x 1536
Effective pixels (H x V)	2048 x 1536
Sensor:	3 MPX 1/2.8" Progressive Scan CMOS
Day/Night:	Motorized IR Cut Filter
IP Compression/Standard:	H.265/ H.264 / MJPEG
Maximum Resolution (@ FPS):	2048 × 1536 (25 fps)
Maximum Real Time Resolution (@ FPS):	50Hz: 25fps (2048 × 1536), 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps@2048 × 1536, 60fps (1920 × 1080, 1280 × 960, 1280 × 720)
Multiple Streaming:	Triple Streams
Video Bit Rate:	128 Kbps to 16 Mbps, adjustable
S/N Ratio:	52 dB (AGC OFF)
Auto Exposure (shutter):	50 Hz: 1/3s to 1/100,000s 60 Hz: 1/3s to 1/100,000s
Composite Output (BNC):	Yes

Lighting performance

WDR type	True WDR
WDR	120 dB
Digital noise reduction	3D DNR
Day/night	True Day/Night
Motorized IR cut filter	Yes
Color sensitivity	0.008 Lux @ (F1.2, AGC ON)
B/W sensitivity	0 lux with IR on
Infrared (IR)	Yes
IR sensitivity	0 lux with IR
IR range	Up to 80 m
IR wavelength	850 mm
Wide Dynamic Range	WDR
WDR in dB	120dB
Digital noise reduction	3D DNR
Highlight compensation (HLC)	No
Day/Night	True D/N
Motorized IR Cut Filter	Yes
Color sensitivity	Color: 0.008 Lux @ (F1.2, AGC ON), 0 Lux IR on
IR Range	Up to 80 m
IR Wavelength	850nm

Encoding

Sub stream compression	H.264, MJPEG
Video bit rate	128kbps to 16Mbps
Sub stream resolutions	176 x 144 (QCIF), 352 x 288 (CIF), 704 x 576 (4CIF)
Max. resolution @ fps	2048 x 1536 @ 25 fps

Lens

Lens type	Varifocal motorized
Focal length	8 to 32 mm
Auto iris	Yes
Auto focus	Yes
Motorized zoom	Yes
Control type:	DC
Focal length:	8 to 32mm
Actually measured view "Horizontal View Angle(°)":	29.7 - 9.7
Actually measured view "Vertical View Angle(°)":	22 - 7
Zoom lens:	Motorized
Autofocus:	Yes
Auto Iris:	Yes

Network

Integration	CGI, ONVIF, PSIA
Supported network protocols	802.1x, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IPv4, IPv6, NTP, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UPnP
Network Protocols:	TCP/IP, HTTP, DHCP, DNS, DDNS, ezDDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1x, Qos, IPv6. ONVIF, PSIA, CGI
PoE IEEE:	802.3at
Standard & Integration	ONVIF Profile (G,S), PSIA, CGI

Audio

Audio compression	G.711, G.722.1, G.726, MP2L2
Audio in	1
Audio out	1

Alarm I/O

Alarm inputs	1
Alarm outputs	1
Alarm I/O connection	Terminal Type

Storage

Local storage support	Yes
Local storage type	Built-in Micro SD/SDHC/SDXC card slot
Max. SD card capacity	128GB

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Video intelligence

Alarm trigger	Motion detection, Privacy Masking, Video tampering
Smart event	Advanced motion detection, Audio exception detection, Defocus, Defog, Electronic Image Stabilization (EIS), Face detection, Intrusion detection, Line crossing detection, Object counting, Object left behind, Object removal detection, Region entrance detection, Region exiting detection, Scene change detection

Electrical

Power supply type	VDC
Power supply value	12 VDC
Power consumption	13 W
Current consumption	1.083 A
Voltage Input:	12VDC, PoE (802.3af / 802.3at with heater)
Power Consumption:	13 W
Current:	1083 mA
Auxiliary Power	50mA @12VDC Line level

Physical

Physical dimensions	116 x 292 mm
Net weight	1.6 kg
Colour	Grey
Form Factor	Bullet

Environmental

Vandal proof	No
Environment	Outdoor
Operating temperature	-40 to +60°C -40 to +140°F
IP rating	66

Regulatory

Compliancy	CE, FCC, HALT, REACH, RoHS, UL, WEEE

LocalStorage

Media:	MicroSD/micro SDHC/ microSDXC
Capacity:	Up to 128GB
Input:	Audio in / Mic in (line level)
Output:	Audio out
Audio bit rate (protocol)	G.711ulaw, G.711alaw, MP2L2, G.726, PCM

Camera Alarm

Basic:	Motion Detection, Tamper Proof, Privacy Mask
Advanced:	Face detection, Audio Exception Detection, Intrusion Detection, De-focus Detection, Region of Interest (ROI), Electronic Image Stabilization (EIS), Defog, Scene Change Detection
	Cross Line Detection, Advanced Motion Detection, Region Entrance Detection, Region Exit Detection, Object Removal, Object Left Behind, Object Counting
Input/Output:	1 input / 1 output

Display

Display mode:	N/A
OSD:	N/A

Mechanical/ Environmental

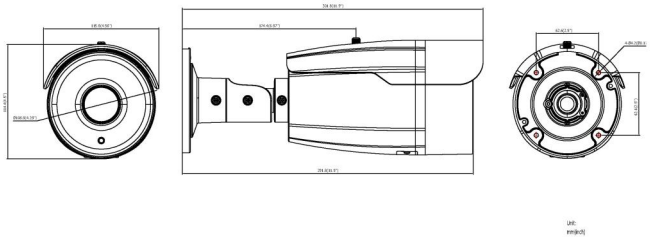
Camera type:	Bullet
Dimensions:	Ø 115.8 × 291.8 mm (4.6 × 11.5 in.)
Weight:	1600 g (3.53 lbs.)
Storage Temperature:	-40 to +60 °C (-40 to +140 °F)
Operating Temperature:	-40 to +60°C (-40 to +140°F), with heater on
Humidity:	95% or less (non-condensing)
Environmental Rating:	IP66
Vandal Rating:	No
Outdoor:	Yes

Regulation

Compliance:	FCC, CE, UL, WEEE, RoHS, REACH

Accessories

Brackets:	No



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Last updated on 5 December 2023 - 17:54