Carrier

# TVS-5101

## TruVision Multi-imager panoramic IP camera, 20MP/4x5MP image sensors, 2.8-12 mm motorized lenses, True D/N, 30m IR, Audio, Alarm I/O, IP67, IK10, Heater, Hi-PoE/12VDC

### Overview

The TruVision TVS-5101 multi-imager camera features four individual repositionable camera sensors of each 5 megapixel with individual motorized zoom lenses. One TVS-5101 can be used to cover large areas by delivering panoramic views up to 360° offering a cost-effective, easy-to-install solution which would typically require multiple high resolution cameras. Combining H.265 compression with low light sensitivity generates crisp images in challenging lighting conditions.

### Video intelligence

The built-in video analytics can automatically inform operators when certain events are happening or help them to easily find recorded events afterwards using VCA search when the camera is used in combination with TruVision NVRs and TruVision Navigator software. Video intelligence features include, among others, line crossing detection, intrusion detection, region entry/exit detection and more.

### Reduced operational and installation cost

Installing multiple traditional cameras requires individual cabling for every camera, an individual network connection and a license per camera channel in a Video Management System. The TruVision multi-imager camera with 4 internal repositionable cameras reduces cost of cabling, network connections and requires only one camera channel VMS license. Like with all other TruVision cameras, no camera license is required when using TruVision Navigator software to manage your video.

### Details

- Non-stiched 20MP resolution (4x 5MP)
- Four repositionable cameras
- H.265 compression with triple-streaming functionality
- Four motorized zoom lenses of 2.8 to 12 mm
- Motorised IR Cut Filter
- ONVIF Profile G and S
- Up to 30 m IR illumination
- 120 dB Wide Dynamic Range
- Rich video intelligence features
- IP67 and IK10 environmental rating

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## Technical specifications

### General

| | |
|---|---|
| Technology | IP |
| Video standard | NTSC, PAL |
| Image settings | De-Fog, Hallway View, Mirror |
| Privacy masking | 4 areas per camera channel |
| Software compatibility | Milestone XProtect, OnGuard, TruVision Navigator, TVRmobile, UltraView, Web Browser |

### Camera

| | |
|---|---|
| Sensor size | 1/2.7" |
| Max. resolution | 20 MP |
| Sensor scan | Progressive |
| Sensor type | CMOS |
| Shutter time | 1 to 1/100,000 s |

### Lighting performance

| | |
|---|---|
| WDR | 120 dB |
| Digital noise reduction | 3D DNR |
| Day/night | True Day/Night |
| Motorized IR cut filter | Yes |
| Color sensitivity | 0.006 Lux @ (F1.2, AGC ON), 0.010 Lux @ (F1.6, AGC On) |
| B/W sensitivity | 0.002 Lux @ (F1.2, AGC ON); 0.003 Lux @ (F1.6, AGC On), 0 Lux with IR on |
| B/W trigger | Day/Night/Auto day-night/Schedule/Triggered by alarm input |
| Infrared (IR) | Yes |
| IR range | Up to 30 m (98 ft.) |
| IR wavelength | 850 nm |
| IR control | Individual controllable IR LEDs (1 to 4) |

### Encoding

| | |
|---|---|
| Video streams | 3 |
| Main stream compression | H.264, H.265 |
| Sub stream compression | H.264, H.265, MJPEG |
| Third stream compression | H.264, H.265 |
| Video bit rate | 32 to 16 Mbps |
| Main stream resolutions | 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2048 x 1536 (QXGA), 2560 x 1920 |
| Sub stream resolutions | 640 x 480 (VGA), 704 x 576 (4CIF) |
| Third stream resolutions | 1280 x 720 (XVGA), 1920 x 1080 (1080p), 640 x 480 (VGA) |
| Max. resolution @ fps | 2560 x 1920 @ 25/30 fps per camera (4x) |

### Lens

| | |
|---|---|
| Lens type | Varifocal motorized |
| Focal length | 2.8 to 12 mm (horizontal FoV: 30 to 101°, vertical FoV: 22.4 to 73° diagonal FoV: 37 to 137°) |
| f-stop | F1.6 |
| Auto focus | Yes |
| Motorized zoom | Yes |

### Network

| | |
|---|---|
| Network interface | RJ-45 10/100 Mbps self-adaptive Ethernet interface |
| Integration | ONVIF Profile G, ONVIF Profile S |
| Supported network protocols | 802.1x, Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UPnP |
| Live view capabilities | Simultaneous live view up to 20 channels |

### Audio

| | |
|---|---|
| Audio compression | G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM |
| Audio in | 1 ch 3.5 mm input (line in) |
| Audio out | 1 ch 3.5 mm output, dual-track, stereo |
| Audio bit rate | 64Kbps (G.711)/16Kbps(G.722.1)/16Kbps(G.726) /32-192Kbps(MP2L2) |

### Alarm I/O

| | |
|---|---|
| Alarm inputs | 2 |
| Alarm outputs | 2 (up to 24 VDC, 1 A or 110 VAC, 500mA) |

### Storage

| | |
|---|---|
| Local storage type | Built-in Micro SD/SDHC/SDXC card slot |
| Max. SD card capacity | 128 GB |
| Snapshots | Event triggered or timed snapshots |

### Video intelligence

| | |
|---|---|
| ROI | 4 fixed regions for each stream |
| Video analytics | Advanced motion detection, Audio exception detection, Defocus, Electronic Image Stabilization (EIS), Face detection, Intrusion detection, Line crossing detection, Object left behind, Object removal detection, Region entrance detection, Region exiting detection, Region of Interest (ROI), Scene change detection |
| VCA resource | Camera 1-3 or camera 2-4 |

### Electrical

| | |
|---|---|
| Operating voltage | 12 VDC ± 20%, 2.3 A, max. 28 W<br>Hi-PoE: 42.5 to 57 VDC, 0.6 to 0.8 A, max. 34W |

### Physical

| | |
|---|---|
| Physical dimensions | 290 x 145.5 mm<br>11.42 x 5.73 in. |
| Net weight | 4.7 kg<br>10.3 lb. |
| Shipping weight | 7.7 kg<br>16.8 lb. |
| Colour | Grey |
| Form Factor | Dome |

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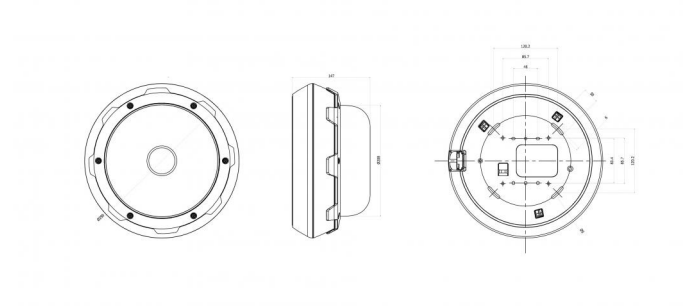
## Environmental

| | |
|---|---|
| Impact rating | IK10 |
| Environment | Outdoor |
| Operating temperature | -40 to +60°C (heater startup at -40°C) -40 to +140°F |
| Relative humidity | <95% non-condensing |
| IP rating | IP67 |

## Regulatory

| | |
|---|---|
| Compliancy | CE, cUL, FCC, REACH, RoHS, UL, WEEE |

## Compatible mounting accessories (not included)

| | |
|---|---|
| TVMI-WM | TruVision Multi-Imager camera Wall Mount |
| TVMI-PM | TruVision Multi-Imager Camera Pendant Mount, 57 mm / 2.24" |
| TVMI-PM2 | TruVision Multi-Imager Camera Pendant Mount, 200 mm / 7.87" |
| TVMI-PM3 | TruVision Multi-Imager Camera Pendant Mount, 500 mm /19.685" |
| TVMI-PMA | TruVision Multi-Imager Camera Pendant Mount Pipe Extension, 500 mm / 19.685" |