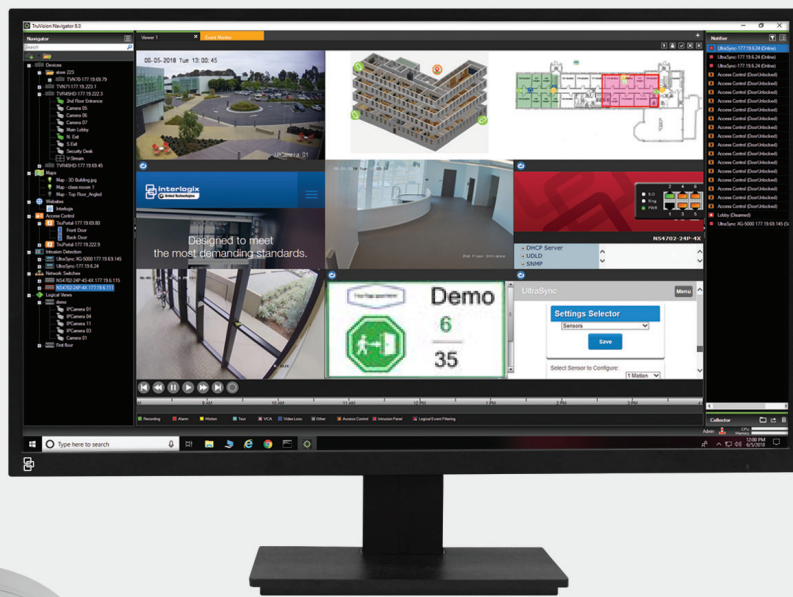


# Comprehensive coverage. Unmatched performance.

The TruVision® line represents integrated video solutions for advanced surveillance capabilities.



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## The next-generation video offering designed by security experts.

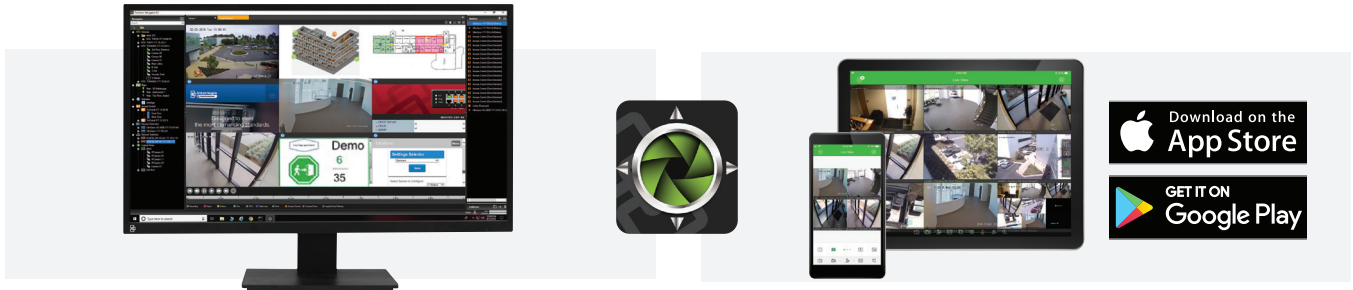
Developed by Aritech, a recognised leader in innovative security technology, the TruVision® line brings the benefit of digital security monitoring to small business and commercial applications.

Designed to deliver leading image capture capability to secure the most demanding applications, TruVision IP components adhere to open standards for easy deployment. Megapixel cameras, recording devices and software work seamlessly together to form a ready-made IP solution ideally suited for environments where high-quality resolution and ease of use are a must:

- Retail spaces
- Office buildings
- Banks and financial institutions
- Schools and higher education
- Public venues

# TruVision® Software

TruVision software provides advanced video management capabilities within a streamlined, user-friendly interface. Compatible with Aritech TruVision brand cameras and recorders, TruVision Navigator is a unified security solution that's highly flexible and scalable. Available mobile apps allow you to access the system and monitor your facilities even while you're away.



## TruVision Navigator

TruVision Navigator by Aritech brings together TruVision video and IFS® network switches into one unified interface. It's not only easy to install and use, but also offers greater scalability to accommodate future growth.

- Supports Analogue and HD-TVI video through TruVision recorders
- Supports H.264/H.265 IP video directly through TruVision cameras or recorders
- Maps, multiple video viewing tabs and live alarm monitoring
- Logical view in device tree and logical event filtering in notifier
- supports ZeroWire and XGen intrusion panel via LAN connection.
- IFS network switch integration for discovery, login, configuration and monitoring
- Scalable for stand-alone or larger commercial (SME) server/client applications

## TVRMobile App

Compatible with Apple® iOS and Android™ phones and tablets, TVRMobile allows users to access and monitor their TruVision video surveillance system from anywhere in the world.

- Real-time monitoring of analogue, HD-TVI or H.264/H.265 IP video via TruVision recorders or directly from TruVision IP cameras
- Send events from a TruVision device directly to your phone using push notifications
- View 1, 4, 9 or 16 channels on either tablet or phone
- Supports up to 100 devices
- Record snapshots, live video, or recorded video directly to a mobile device and export using standard methods such as text, email, etc.
- Remote connection via Wi-Fi®, 3G, 4G or LTE network
- Free downloads via iTunes® App Store or Android

### TruVision Navigator Download Information

[DOWNLOAD](#)

[www.firesecurityproducts.com.au](http://www.firesecurityproducts.com.au)

### TVRMobile Download Information

Available for download



## TruVision Video Tools

### TruVision Device Manager

Easily search and configure TruVision IP devices on a network.



### TruVision Calculator (part of TruVision Device Manager)

Calculate storage requirements for TruVision H.264/H.265 recorders based on camera count, resolution, fps, etc.



## IP Network Video Recorders

TruVision network video recorders offer user-friendly operation, flexible configuration, as well as easy installation. Live/playback high definition IP video can be accessed through front panel controls, TruVision Navigator or web browser.



Plug & Play

### NVR 11 Series



- H.264/H.265 support
- Supports up to 16 IP cameras (TruVision and ONVIF) in real-time (25/30fps)
- Up to 160Mbps incoming bandwidth (Depending on the model)
- Built-in 4-, 8- or 16 port PoE switch (NVR 11S)
- Plug and Play configuration
- Start-up wizards, auto discovery tools and ezDDNS service make configuration quick and easy
- Out of the box intrusion-video integration
- HDMI port for local high definition viewing
- Available mobile apps for remote monitoring
- 3-year warranty



Full Featured

### NVR 22 Series



- H.264/H.265 support
- Supports up to 64 IP cameras (TruVision and ONVIF) in real-time (25/30fps)
- Up to 320Mbps incoming bandwidth
- Built-in 8- or 16-port PoE Switch (NVR 22S)
- Automatic PoE power budget allocation
- Front panel accessible HDD bays for easy storage expansion
- RAID support (TVN22P Series only)
- Hot-spare redundancy
- Network redundancy
- Start-up wizards, auto discovery tools and ezDDNS service make configuration quick and easy
- Out of the box intrusion-video integration
- HDMI ports for local high definition viewing
- Available mobile apps for remote monitoring
- 3-year warranty



High Capacity

### NVR 71 Series



- H.264/H.265 support
- Up to 576 Mbps incoming bandwidth
- Supports up to 128 IP cameras (TruVision and ONVIF) in real-time (25/30fps)
- Front panel accessible HDD bays for up to 16 drives for easy storage expansion
- High fault-tolerant design includes network, fans, and power supply redundancy
- Built-in SFP fiber ports for high bandwidth network connectivity
- Out of the box intrusion-video integration
- Available mobile apps for remote monitoring
- 3-year warranty
- RAID support via dedicated 7101R-xT models

## Built for easy operation and reliability



### Plug & Play PoE Switch (NVR 11/NVR 22)

Built-in remote PoE power and automatic configuration for easy installation of TruVision IP cameras.



### Versatile Front Panel Design

Direct access to camera channels and controls with the drop-down lockable front panel allowing storage expansion.



### High storage capacity with a high fault-tolerant design (NVR 71)

Up to 16 HDD bays and full redundancy for mission-critical applications.

# TruVision® IP Products

## Network Video Recorders Comparison Table

|                                  |   | NVR 11CS                                  | NVR 11S                                   | NVR 22S                             | NVR 22Plus                          | NVR 71                              |
|----------------------------------|---|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Channels, Bandwidth & Resolution | Max. IP channels                              | 4   | 8/16                                      | 16/32/64                            | 16/32/64                            | 128                                 |
|                                  | Total bandwidth available incoming            | 40  | 80/60                                     | 80/160                              | 256/320                             | 576                                 |
|                                  | Average bandwidth per channel (Mbps) incoming | 5   | 5   | 5                                   | 5                                   | 4                                   |
|                                  | Bandwidth allocation                          | Fully flexible                            | Fully flexible                            | Fully flexible                      | Fully flexible                      | Fully flexible                      |
|                                  | Real-time recording                           | Full HD                                   | Full HD                                   | Full HD                             | Full HD                             | Full HD                             |
|                                  | HD recording per channel                      | 25/30 fps                                 | 25/30 fps                                 | 25/30 fps                           | 25/30 fps                           | 25/30 fps                           |
| PoE                              | PoE ports                                     | 4   | 8/16                                      | 8/16                                | —                                   | —                                   |
|                                  | Total PoE budget                              | 50W                                       | 120W/200W                                 | 120W/200W                           | —                                   | —                                   |
|                                  | Avg. power budget for 1 port                  | 12.5W                                     | 15W                                       | Auto-PoE                            | —                                   | —                                   |
|                                  | Max. power budget for 1 port                  | 30W                                       | 30W                                       | 30W                                 | —                                   | —                                   |
|                                  | PoE-af  | •   | •   | •                                   | —                                   | —                                   |
|                                  | PoE-at  | •   | •   | •                                   | —                                   | —                                   |
| Network & Streaming              | Plug-and-play IP configuration                | •   | •   | •                                   | —                                   | —                                   |
|                                  | ONVIF support                                 | •   | •   | •                                   | •                                   | •                                   |
|                                  | PSIA support                                  | —   | —   | •                                   | •                                   | •                                   |
|                                  | Gigabit ethernet (RJ45/SFP) ports             | 1/0                                       | 1/0                                       | 1/0                                 | 2/0                                 | 4/4                                 |
|                                  | Redundant NIC ports                           | —   | —   | •                                   | •                                   | •                                   |
|                                  | Load balancing                                | —   | —   | •                                   | •                                   | •                                   |
|                                  | ezDDNS  | •   | •   | •                                   | •                                   | •                                   |
|                                  | Maximum outgoing streams                      | live: 128 streams;<br>playback: 8 streams | live: 128 streams;<br>playback: 8 streams | 128 streams                         | 128 streams                         | 256 streams                         |
|                                  | Maximum outgoing bandwidth Mbps               | 80  | 80/80                                     | 256/256                             | 256/256                             | 51                                  |
| Storage                          | Max storage (TB)                              | 2   | 4/6                                       | 24                                  | 48                                  | 96<br>(RAID & Non-RAID)             |
|                                  | Front side accessible HDDs                    | —   | —   | •                                   | •                                   | •                                   |
|                                  | Expandable internal storage                   | —   | —   | •                                   | •                                   | •                                   |
|                                  | Dual stream recording                         | —   | —   | Firmware 2.0 and above              | Firmware 2.0 and above              | •                                   |
|                                  | Hot spare backup/recovery                     | —   | —   | •                                   | •                                   | •                                   |
|                                  | HDD redundancy                                | —   | —   | •                                   | •                                   | •                                   |
|                                  | RAID support (requires RAID HDDs)             | —   | —   | —                                   | 0/1/5/6/10                          | 0/1/5/6/10                          |
|                                  | NAS and eSATA support                         | NAS only                                  | NAS only                                  | •                                   | •                                   | •                                   |
| Local Viewing & Controls         | Front panel controls                          | •   | •   | •                                   | •                                   | —                                   |
|                                  | HDMI  | •   | •   | 1                                   | 2                                   | —                                   |
|                                  | VGA   | •   | •   | 1                                   | 2                                   | —                                   |
|                                  | BNC output                                    | —   | —   | •                                   | •                                   | —                                   |
|                                  | Keypad support                                | TVK-600/<br>TVK-800                       | TVK-600/<br>TVK-800                       | TVK-600/<br>TVK-800                 | TVK-600/<br>TVK-800                 | —                                   |
|                                  | USB slots                                     | 2   | 2   | 3                                   | 3                                   | 4                                   |
| General Features                 | Text insertion                                | —   | —   | •                                   | •                                   | —                                   |
|                                  | CD/DVD burner                                 | via USB                                   | via USB                                   | via USB                             | via USB                             | via USB                             |
|                                  | Reverse playback                              | •   | •   | •                                   | •                                   | •                                   |
|                                  | Alarm I/O                                     | 4 in/1 out                                | 4 in/1 out                                | 16/4                                | 16/4                                | 16/8                                |
|                                  | Rack mountable                                | —   | •   | •                                   | •                                   | •                                   |
|                                  | Redundant Power Supplies                      | —   | —   | —                                   | —                                   | •                                   |
| Software Support                 | TruVision Navigator                           | •   | •   | •                                   | •                                   | •                                   |
|                                  | TVRMobile                                     | •   | •   | •                                   | •                                   | •                                   |
|                                  | OnGuard®                                      | Pending                                   | Pending                                   | 7.2 w/recorder pack 1.0.2 and above | 7.2 w/recorder pack 1.0.2 and above | 7.4 w/recorder pack 1.0.4 and above |
|                                  | TruPortal™                                    | •   | •   | •                                   | •                                   | •                                   |
|                                  | Advisor Management                            | —   | —   | V.2016 and later                    | V.2016 and later                    | V.2016 and later                    |

## Network Video Recorders Ordering Information

| NVR 11        |   |
|---------------|---|
| TVN-1104cS-2T | TruVision NVR 11, 4 channels, 4 channel PoE, 40 Mbps, 2TB             |
| TVN-1108S-2T  | TruVision NVR 11, 8 channels, 8 channel PoE, 80 Mbps, 2TB             |
| TVN-1108S-4T  | TruVision NVR 11, 8 channels, 8 channel PoE, 80 Mbps, 4TB             |
| TVN-1116S-4T  | TruVision NVR 11, 16 channels, 16 channel PoE, 160 Mbps, 4TB          |
| NVR 22S       |   |
| TVN-2208S-000 | TruVision NVR 22S, H.265, 8-Channel PoE, No Hard Drive Storage        |
| TVN-2216S-000 | TruVision NVR 22S, H.265, 16-Channel PoE, No Hard Drive Storage       |
| NVR 22P       |   |
| TVN-2232P-000 | TruVision NVR 22Plus, H.265, 64-Channel IP, 2U, No Hard Drive Storage |
| TVN-2264P-000 | TruVision NVR 22Plus, H.265, 64-Channel IP, 2U, No Hard Drive Storage |
| NVR 71        |   |
| TVN-7101-000  | TruVision NVR 71, 576Mbps, No Hard drive                              |

## IFS® Network Switches

Delivering robust electrical power and data connection to IP cameras, IFS technology is designed to meet modern network demands. These advanced network switches offer high bandwidth, isolated PoE ports, extra SFP fiber ports and network and cable diagnostics. Select IFS switches also provide native integration with TruVision Navigator.

[firesecurityproducts.com](http://firesecurityproducts.com)



# TruVision® IP Products

Fixed IP cameras Comparison Table



Series 6



Series 7



360° cameras



Multi-imager



People counting

|  | Series 6                      | Series 7            | 360° cameras        | Multi-imager            | People counting    |
|--|-------------------------------|---------------------|---------------------|-------------------------|--------------------|
| <b>Physical</b>  |                               |                     |                     |                         |                    |
| Form factor  | Bullet, dome, turret, wedge   | Bullet, dome, box   | Fisheye             | Large multi-sensor dome | Custom, dual lens  |
| <b>Video</b>   |                               |                     |                     |                         |                    |
| Supported resolutions                                  | 4MP/8MP                       | 4MP /8MP/12MP       | 6MP/12MP            | 4 cameras 5MP           | 2MP                |
| Encoding   | H.265, H.264, MJPEG           |                     |                     |                         |                    |
| No. of video streams                                   | 3                             | 10                  | 2                   | 3 per camera            | 2                  |
| <b>Optical</b>   |                               |                     |                     |                         |                    |
| Lens type  | Fixed and motorized varifocal | Motorized varifocal | Fixed, 360° fisheye | Motorized varifocal     | Dual fixed         |
| Low light sensitivity                                  | Standard low light            | Extreme low light   | Standard low light  | Standard low light      | Standard low light |
| Built-in IR  | •                             | •                   | •                   | •                       | •                  |
| <b>Intelligence</b>                                    |                               |                     |                     |                         |                    |
| Motion   | •                             | •                   | •                   | •                       | •                  |
| Video Tampering  | •                             | •                   | •                   | •                       | •                  |
| Cross line detection                                   | •                             | •                   | •                   | Yes, 2 out of 4 cameras |                    |
| Intrusion zone detection                               | •                             | •                   | •                   | Yes, 2 out of 4 cameras |                    |
| Region entrance detection                              |                               | •                   | •                   | Yes, 2 out of 4 cameras |                    |
| Region exiting detection                               |                               | •                   | •                   | Yes, 2 out of 4 cameras |                    |
| Face detection   | •                             | •                   |                     | Yes, 2 out of 4 cameras |                    |
| Object left behind/Unattended baggage detection        |                               | •                   | •                   | Yes, 2 out of 4 cameras |                    |
| Object removal detection                               |                               | •                   | •                   | Yes, 2 out of 4 cameras |                    |
| Defocus detection                                      |                               | •                   |                     | Yes, 2 out of 4 cameras |                    |
| Scene change detection                                 |                               | •                   |                     | Yes, 2 out of 4 cameras |                    |
| Object counting  |                               | •                   | •                   |                         |                    |
| People counting  |                               |                     |                     |                         | •                  |
| Audio exception (audio loss, sudden increase/decrease) |                               | •                   | •                   | •                       |                    |
| Heat mapping   |                               |                     | •                   |                         |                    |
| Intersection analysis                                  |                               |                     | •                   |                         |                    |
| License plate reading                                  |                               |                     |                     |                         |                    |



## Fixed IP cameras Comparison Table



**Series 6**



**Series 7**



**360° cameras**



**Multi-imager**



**People counting**

|                                  |   | Series 6              | Series 7              | 360° cameras          | Multi-imager          | People counting       |
|----------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <b>I/O</b>                       | Alarm in/out                                  | Yes, select models    | Yes, select models    | •                     | •                     | •                     |
|                                  | Audio in/out                                  | Yes, select models    | Yes, select models    | •                     | •                     | •                     |
| <b>Storage</b>                   | SD card slot                                  | •                     | •                     | •                     | •                     | •                     |
|                                  | NAS compatible                                | •                     | •                     | •                     | •                     | •                     |
|                                  | Event video storage to FTP                    | •                     | •                     | •                     | •                     | •                     |
| <b>Environmental</b>             | IP rating                                     | IP66/IP67             | IP67, outdoor models  | IP67, outdoor models  | IP67                  | IP67                  |
|                                  | IK rating                                     | IK10, select models   | IK10, select models   | IK10, outdoor models  | IK10                  | -                     |
| <b>Hardware/Software Support</b> | TruVision recorders                           | •                     | •                     | •                     | •                     | •                     |
|                                  | TruVision Navigator                           | •                     | •                     | •                     | •                     | •                     |
|                                  | TVR Mobile                                    | •                     | •                     | •                     | •                     | •                     |
|                                  | Microsoft Internet Explorer (ActiveX plugins) | •                     | •                     | •                     | •                     | •                     |
|                                  | Other web browsers (Plugin free)              |                       | •                     |                       |                       | •                     |
|                                  | Milestone XProtect                            | •                     | •                     | •                     | •                     |                       |
|                                  | 3rd party ONVIF compliant VMS                 | •                     | •                     | •                     | •                     | •                     |
|                                  | TecomC4                                       | Yes, through recorder | Yes, through recorder | Yes, through recorder | Yes, through recorder | Yes, through recorder |

# IP Network Cameras

In today's modern business world, you need the most up-to-date security technology to adequately protect your people and your property. One of the most effective pieces of equipment you can add to your security arsenal is the internet protocol (IP) security camera.



S7 Series  
Bullet Camera



- Resolution options 4, 8, 12MP
- Extreme low light performance
- 10 configurable video streams
- Motorized zoom 2.8 to 12 mm and 8 to 32 mm options
- P-iris lens
- 3-year warranty



S7 Series  
Box Camera



- Resolution options 4, 8, 12MP
- Extreme low light performance
- 10 configurable video streams
- Compatible with TVC-OH3-HT outdoor housing with integrated IR.
- 3-year warranty






S7 Series  
Dome Camera



- Resolution options 4, 8, 12MP
- Extreme low light performance
- 10 configurable video streams
- Motorized zoom 2.8 to 12 mm and 8 to 32 mm options
- P-iris lens
- Indoor and outdoor variants available
- 3-year warranty

# TruVision® IP Products




## S7 Series IP Camera

|                         | 4MP  | 8MP  | 12MP   |
|-------------------------|--|--|--|
|                         | TVB-5713/TVB-5714  | TVB-5715/TVB-5716  | TVB-5717   |
|                         |   |    |   |
| Sensor                  | 1/1.8" Progressive CMOS  |  | 1/1.7" Progressive CMOS  |
| Resolution              | 2560 x 1440 @ 25/30 fps  | 3840 x 2160 @ 25/30 fps  | 4000 x 3000 @ 20 fps   |
| Multiple Streaming      | Main stream: 1280 x 720 (XVGA), 1600 x 1200 (UXGA), 1920 x 1080 (1080p), 2560 x 1440<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3072 x 1728, 3840 x 2160, 4000 x 3000, 4096 x 2160<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams |
| Day/Night               | True Day/Night   |  |  |
| Iris                    | Auto-iris, P-iris  |  |  |
| Wide Dynamic Range      | WDR 140 dB   | 120 dB   | DWDR   |
| IP Compression/Standard | H.264, H.265   |  |  |
| Minimum Illumination    | Colour: 0.0002 Lux @ (F1.2, AGC ON), 0 lux with IR   | Colour: 0.0007 Lux @ (F1.2, AGC ON), 0.016Lux @ (F1.8, AGC ON), 0 lux with IR  | Colour: 0.0008 Lux @ (F1.2, AGC ON), 0 lux with IR ON  |
| Lens                    | TVB-5713: 2.8-12mm motorized, Horizontal FoV 109.2° to 38.9°, Vertical FoV 56.2° to 21.9°, Diagonal FoV 134.5° to 45°<br>TVB-5714: 8-32mm motorized, Horizontal FoV 37.7° to 15.2°, Vertical FoV 21° to 8.6°, Diagonal FoV 43.4° to 17.24°   | TVB-5715: 2.8-12mm motorized<br>Horizontal FoV 112.4° to 41°, Vertical FoV 58° to 23°, Diagonal FoV 137° to 47°<br>TVB-5716: 8-32mm motorized<br>Horizontal FoV 39° to 15.6°, Vertical FoV 21.8° to 8.9°, Diagonal FoV 45° to 17.8°  | 2-12mm motorized, Horizontal FoV 101° to 36.1°, Vertical FoV 72° to 27.2°, Diagonal FoV 130° to 45.2°  |
| IR Range                | 50m / 100m   | 50m / 100m   | 50m  |
| Local Storage           | Micro SD/SDHC/SDXC up to 256GB   |  |  |
| Intelligence            | Advanced motion detection, Audio exception detection, Defocus, Face detection, Intrusion detection, Line crossing detection, Object removal detection, Region entrance detection, Region exiting detection, Scene change detection, Unattended baggage detection                           |  |  |
| I/O                     | 2 inputs/2 outputs   |  |  |
| Audio                   | 1 line input / 1 line output   |  |  |
| Integration             | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T, CGI, PSIA, ISAPI  |  |  |
| Operating Voltage       | 12 VDC ± 20%, three-core terminal block, reverse polarity protection / PoE (802.3at, class 4)  |  |  |
| Operating Temp          | -40 to +65°C   |  |  |
| Environmental Rating    | IP67   |  |  |
| Vandal Rating           | IK10   |  |  |
| Certification           | CE, FCC, REACH, RoHS, UL, WEEE   |  |  |

## Series 7 IP Cameras Ordering Information

| BULLET CAMERAS |   |
|----------------|---|
| TVB-5713       | TruVision IP Bullet Camera, H.265, 4MP, 2.8-12mm motorized lens, Super Low Light, WDR, true D/N, 50m IR, Audio, Alarm, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10     |
| TVB-5714       | TruVision IP Bullet Camera, H.265, 4MP, 8-32mm motorized lens, Super Low Light, WDR, true D/N, 100m IR, Audio, Alarm, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10      |
| TVB-5715       | TruVision IP Bullet Camera, H.265, 8MP/4K, 2.8-12 mm motorized lens, Super Low Light, WDR, true D/N, 50m IR, Audio, Alarm, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10 |
| TVB-5716       | TruVision IP Bullet Camera, H.265, 8MP/4K, 8-32mm motorized lens, Super Low Light, WDR, true D/N, 100m IR, Audio, Alarm, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10   |
| TVB-5717       | TruVision IP Bullet Camera, H.265, 12MP, 2.8-12mm motorized lens, Super Low Light, DWDR, true D/N, 50m IR, Audio, Alarm, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10   |

## S7 Series Box Camera

|                         | 4MP   | 8MP   | 12MP  |
|-------------------------|---|---|---|
|                         | TVC-5712  | TVC-5713  | TVC-5714  |
|                         |    |   |    |
| Sensor                  | 1/1.8" Progressive CMOS   |   | 1/1.7" Progressive CMOS   |
| Resolution              | 2560 x 1440 @ 25/30 fps   | 3840 x 2160 @ 25/30 fps   | 4000 x 3000 @ 20 fps  |
| Multiple Streaming      | Main stream: 1280 x 720 (XVGA), 1600 x 1200 (UXGA), 1920 x 1080 (1080p), 2560 x 1440 (4CIF)<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160 (4CIF)<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3072 x 1728, 3840 x 2160, 4000 x 3000, 4096 x 2160 (4CIF)<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams |
| Day/Night               | True Day/Night  |   |   |
| Iris                    | Auto-iris   |   |   |
| Wide Dynamic Range      | WDR 140dB   | 120 dB  | DWDR  |
| IP Compression/Standard | H.264, H.265, MJPEG   |   |   |
| Minimum Illumination    | Colour: 0.002 Lux @ (F1.2, AGC ON)<br>B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 lux with IR ON  | Colour: 0.007 Lux @ (F1.2, AGC ON)<br>B/W: 0.0007 Lux @ (F1.2, AGC ON),   | Colour: 0.008 Lux @ (F1.2, AGC ON)<br>B/W: 0.0008 Lux @ (F1.2, AGC ON),   |
| Lens                    | C/CS mount, not included  |   |   |
| Local Storage           | Micro SD/SDHC/SDXC up to 256GB  |   |   |
| Intelligence            | Advanced motion detection, Audio exception detection, Defocus, Face detection, Intrusion detection, Line crossing detection, Object removal detection, Region entrance detection, Region exiting detection, Scene change detection, Unattended baggage detection                                  |   |   |
| I/O                     | 2 inputs/2 outputs  |   |   |
| Audio                   | 1 line input / 1 line output  |   |   |
| Integration             | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T, CGI, PSIA, ISAPI   |   |   |
| Operating Voltage       | 12 VDC/24VAC, 10 to 48 VDC, two-core terminal block PoE (802.3af, class 3), reverse polarity protection   |   |   |
| Operating Temp          | -30 to +65°C  |   |   |
| Environmental Rating    | N/A   |   |   |
| Vandal Rating           | N/A   |   |   |
| Outdoor installation    | For outdoor use in combination with TVC-OH3-HT housing with integrated IR   |   |   |
| Certification           | CE, FCC, REACH, RoHS, UL, WEEE  |   |   |




## Series 7 IP Cameras Ordering Information

### FULL BODY CAMERAS

|                 |   |
|-----------------|---|
| <b>TVC-5712</b> | TruVision IP Box Camera, H.265, 4MP, Super Low Light, WDR, true D/N, Auto Back Focus, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE (802.3-af) /12VDC/24VAC    |
| <b>TVC-5713</b> | TruVision IP Box Camera, H.265, 8MP/4K, Super Low Light, WDR, true D/N, Auto Back Focus, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE (802.3-af) /12VDC/24VAC |
| <b>TVC-5714</b> | TruVision IP Box Camera, H.265, 12MP Super Low Light, DWDR, true D/N, Auto Back Focus, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE (802.3-af) /12VDC/24VAC   |

# TruVision® IP Products




## S7 Series Indoor Dome Camera

|                      | 4MP  | 8MP  | 12MP   |
|----------------------|--|--|--|
|                      | TVD-5712   | TVD-5713   | TVD-5714   |
|                      |   |   |   |
| Sensor               | 1/1.8" Progressive CMOS  |  | 1/1.7" Progressive CMOS  |
| Max. Resolution/fps  | 2560 x 1440 @ 25/30 fps  | 3840 x 2160 @ 25/30 fps  | 4000 x 3000 @ 20 fps   |
| Multiple Streaming   | Main stream: 1280 x 720 (XVGA), 1600 x 1200 (UXGA), 1920 x 1080 (1080p), 2560 x 1440<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3072 x 1728, 3840 x 2160, 4000 x 3000, 4096 x 2160<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams |
| Day/Night            | True Day/Night   |  |  |
| Iris                 | Auto-iris, P-iris  |  |  |
| Wide Dynamic Range   | WDR 140 dB   | WDR (120 dB)   | DWDR   |
| Video Compression    | H.264, H.265, MJPEG  |  |  |
| Minimum Illumination | Colour: 0.002 Lux @ (F1.2, AGC ON)<br>B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 lux with IR ON   | Colour: 0.007 Lux @ (F1.2, AGC ON)<br>B/W: 0.0007 Lux @ (F1.2, AGC ON), 0 lux with IR ON   | Colour: 0.008 Lux @ (F1.2, AGC ON)<br>B/W: 0.0008 Lux @ (F1.2, AGC ON), 0 lux with IR ON   |
| Lens                 | 2.8 to 12mm motorized<br>Horizontal FoV 109.2° to 38.9°, Vertical FoV 56.2° to 21.9°, Diagonal FoV 134.5° to 45°   | 2.8 to 12mm motorized<br>Horizontal FoV 112.4° to 41°, Vertical FoV 58° to 23°, Diagonal FoV 137° to 47°   | 2.8 to 12mm motorized<br>Horizontal FoV 101° to 36.1°, Vertical FoV 72° to 27.2°, Diagonal FoV 130° to 45.2°   |
| IR Range             | 30m  |  |  |
| Local Storage        | Micro SD/SDHC/SDXC up to 256GB   |  |  |
| Intelligence         | Advanced motion detection, Audio exception detection, Defocus, Face detection, Intrusion detection, Line crossing detection, Object removal detection, Region entrance detection, Region exiting detection, Scene change detection, Unattended baggage detection                           |  |  |
| I/O                  | 1 input / 1 output   |  |  |
| Audio                | 1 line-input / 1 line-output   |  |  |
| Integration          | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T, CGI, PSIA, ISAPI  |  |  |
| Operating Voltage    | 12 VDC recommended, 10 to 48 VDC, two-core terminal block PoE (802.3af, class 3), reverse polarity protection  |  |  |
| Operating Temp       | -30 to +60°C   |  |  |
| Environmental Rating | N/A  |  |  |
| Vandal Rating        | IK10   |  |  |
| Outdoor installation | No   |  |  |
| Certification        | CE, FCC, REACH, RoHS, UL, WEEE   |  |  |

## Series 7 IP Cameras Ordering Information

| INDOOR DOME CAMERAS |   |
|---------------------|---|
| <b>TVD-5712</b>     | TruVision IP Indoor Dome Camera, H.265, 4MP, 2.8-12mm motorized lens, Super Low Light, WDR, true D/N, 30m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE (802.3-af) /12VDC, indoor, IK10    |
| <b>TVD-5713</b>     | TruVision IP Indoor Dome Camera, H.265, 8MP/4K, 2.8-12mm motorized lens, Super Low Light, WDR, true D/N, 30m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE (802.3-af) /12VDC, indoor, IK10 |
| <b>TVD-5714</b>     | TruVision IP Indoor Dome Camera, H.265, 12MP, 2.8-12mm motorized lens, Super Low Light, DWDR, true D/N, 30m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE (802.3-af) /12VDC, indoor, IK10  |

## S7 Series Outdoor Dome Camera

|                      | 4MP   | 8MP  | 12MP   |
|----------------------|---|--|--|
|                      | TVD-5717/ TVD-5718  | TVD-5719/ TVD-5720   | TVD-5721   |
|                      |    |   |   |
| Sensor               | 1/1.8" Progressive CMOS   |  | 1/1.7" Progressive CMOS  |
| Max. Resolution/fps  | 2560 x 1440 @ 25/30 fps   | 3840 x 2160 @ 25/30 fps  | 4000 x 3000 @ 20 fps   |
| Multiple Streaming   | Main stream: 1280 x 720 (XVGA), 1600 x 1200 (UXGA), 1920 x 1080 (1080p), 2560 x 1440 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams | Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3072 x 1728, 3840 x 2160, 4000 x 3000, 4096 x 2160<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF)<br>+ 7 additional configurable streams |
| Day/Night            | True Day/Night  |  |  |
| Iris                 | Auto-iris, P-iris   |  |  |
| Wide Dynamic Range   |   | WDR (120 dB)   | DWDR   |
| Video Compression    | H.264, H.265, MJPEG   |  |  |
| Minimum Illumination | Colour: 0.002 Lux @ (F1.2, AGC ON), 0.004 Lux @ (F1.6, AGC ON), 0 Lux with IR   | Colour: 0.007 Lux @ (F1.2, AGC ON), 0.016 Lux @ (F1.8, AGC ON), 0 Lux with IR  | Colour: 0.008 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.8, AGC ON), 0 Lux with IR  |
| Lens                 | TVB-5713: 2.8-12mm motorized, Horizontal FoV 109.2° to 38.9°, Vertical FoV 56.2° to 21.9°, Diagonal FoV 134.5° to 45°<br>TVB-5714: 8-32mm motorized, Horizontal FoV 39° to 15.6°, Vertical FoV 21.8° to 8.9°, Diagonal FoV 45° to 17.8°   | TVB-5715: 2.8-12mm motorized Horizontal FoV 112.4° to 41°, Vertical FoV 58° to 23°, Diagonal FoV 137° to 47°<br>TVB-5716: 8-32mm motorized Horizontal FoV 39° to 15.6°, Vertical FoV 21.8° to 8.9°, Diagonal FoV 45° to 17.8°  | 2-12mm motorized, Horizontal FoV 101° to 36.1°, Vertical FoV 72° to 27.2°, Diagonal FoV 130° to 45.2°  |
| IR Range             | 30m / 50m   | 30m / 50m  | 30m  |
| Local Storage        | Micro SD/SDHC/SDXC up to 256GB  |  |  |
| Intelligence         | Advanced motion detection, Audio exception detection, Defocus, Face detection, Intrusion detection, Line crossing detection, Object removal detection, Region entrance detection, Region exiting detection, Scene change detection, Unattended baggage detection                        |  |  |
| I/O                  | 1 inputs/1 output   |  |  |
| Audio                | 1 line input / 1 line output  |  |  |
| Integration          | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T, CGI, PSIA, ISAPI   |  |  |
| Operating Voltage    | 12 VDC recommended, 10 to 48 VDC, two-core terminal block, reverse polarity protection / PoE (802.3at, class 4), reverse polarity protection  |  |  |
| Operating Temp       | -40 to +65°C  |  |  |
| Environmental Rating | IP67  |  |  |
| Vandal Rating        | IK10  |  |  |
| Certification        | CE, FCC, REACH, RoHS, UL, WEEE  |  |  |

## Series 7 IP Cameras Ordering Information

| OUTDOOR DOME CAMERAS |   |
|----------------------|---|
| <b>TVC-5717</b>      | TruVision IP Outdoor Dome Camera, H.265, 4MP, 2.8-12mm Motorized lens, Super Low Light, WDR, true D/N, 30m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10    |
| <b>TVC-5718</b>      | TruVision IP Outdoor Dome Camera, H.265, 4MP, 8-32mm Motorized lens, Super Low Light, WDR, true D/N, 50m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10      |
| <b>TVC-5719</b>      | TruVision IP Outdoor Dome Camera, H.265, 8MP/4K, 2.8-12mm Motorized lens, Super Low Light, WDR, true D/N, 30m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10 |
| <b>TVC-5720</b>      | TruVision IP Outdoor Dome Camera, H.265, 8MP/4K, 8-32mm Motorized lens, Super Low Light, WDR, true D/N, 50m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10   |
| <b>TVD-5721</b>      | TruVision IP Outdoor Dome Camera, H.265, 12MP, 2.8-12mm Motorized lens, Super Low Light, DWDR, true D/N, 30m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12VDC, Heater, IP67, IK10  |
| <b>TVD-5718</b>      | TruVision IP Outdoor Dome Camera, H.265, 4MP, 8-32mm Motorized lens, Super Low Light, WDR, true D/N, 50m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at)                                 |

# TruVision® IP Products

## IP Cameras



### Series 6 Bullet IR Cameras



- Integrated motion detection and tamper proof detection
- Network disconnect and IP address conflict detection
- Illegal login detection
- Fixed and motorized varifocal lens options
- 30 to 50m IR illumination range
- Edge recording supports up to 128GB Micro SD/SDHC/SDXC for video playback (on select models, card not included)
- External alarm I/O support
- IP67 Environmental rating
- IK10 Vandal rating (on select models)

### Series 6 Dome IR Cameras



- Integrated motion detection and tamper proof detection
- Network disconnect and IP address conflict detection
- Illegal login detection
- Fixed and motorized varifocal lens options
- 30m IR illumination range
- Edge recording supports up to 128GB Micro SD/SDHC/SDXC for video playback (on select models, card not included)
- External alarm I/O support
- IP67 Environmental rating
- IK10 Vandal rating



## Series 6 Turret IR Cameras



- Integrated motion detection and tamper proof detection
- Network disconnect and IP address conflict detection
- Illegal login detection
- Fixed and varifocal lens options
- 30m IR illumination range
- Edge recording supports up to 128GB Micro SD/SDHC/SDXC for video playback (on select models, card not included)
- External alarm I/O support
- External audio I/O support and built-in mic (on select models)
- Housing color options: gray, white, or black (on select models)
- IP67 Environmental rating
- IK10 Vandal rating (on select models)



## Series 6 Wedge IR Cameras







- Low profile format
- Integrated motion detection and tamper proof detection
- Network disconnect and IP address conflict detection
- Illegal login detection
- 2.0mm / 2.8mm fixed lens options
- 10m IR illumination range
- Edge recording supports up to 128GB Micro SD/SDHC/SDXC for video playback (on select models, card not included)
- External alarm I/O support
- External audio I/O support and built-in mic
- IP66 Environmental rating
- IK8 Vandal rating



# TruVision® IP Products





## Series 6 IP Bullet Cameras Specifications

|                         | Fixed Lens   |   | Motorized Varifocal Lens  |   |
|-------------------------|--|---|---|---|
|                         | 4MP  | 8MP (4K)  | 4MP   | 8MP (4K)  |
|                         | TVB-5602   | TVB-5603  | TVB-5605/<br>TVB-5605H  | TVB-5606/<br>TVB-5606H  |
|                         |                                 |  |  |  |
| Color                   | Gray   |   |   |   |
| Sensor                  | 1/2.8" Progressive Scan, CMOS  | 1/2.5" Progressive Scan, CMOS   | 1/2.8" Progressive Scan, CMOS   | 1/3" Progressive Scan, CMOS   |
| Max Resolution          | 2560 x 1440  | 3840 x 2160   | 2560 x 1440   | 3840 x 2160   |
| Multiple Streaming      | Triple Stream  |   |   |   |
| Day/Night               | True D/N, IR cut filter  |   |   |   |
| Wide Dynamic Range      | WDR (120 dB)   |   |   |   |
| Digital S/N Ratio       | 50 dB (AGC Off)  |   |   |   |
| IP Compression/Standard | H.265 / H.264 / MJPEG  |   |   |   |
| Minimum Illumination    | Color: 0.01 lux @ (f1.2, AGC On);<br>0.028 lux @ (f2.0, AGC On); 0<br>lux with IR                                | Color: 0.01 lux @ (f1.2, AGC On);<br>0.028 lux @ (f2.0, AGC On); 0<br>lux with IR | Color: 0.01 lux @ (f1.2, AGC On); 0.018 lux @ (f1.6, AGC On);<br>0 lux with IR      |   |
| Lens                    | 4mm;<br>horizontal FOV: 78°; vertical FOV:<br>42°; diagonal FOV: 93°   | 4mm;<br>horizontal FOV: 79°; vertical FOV:<br>42°; diagonal FOV: 95               | 2.8 to 12mm; horizontal FOV:<br>98° to 28°; vertical FOV: 51°<br>to 16°             | 2.8 to 12mm; horizontal FOV:<br>105° to 34.5°; vertical FOV: 55°<br>to 19°          |
| Video Output            | N/A  |   | H-versions: 1 - 75Ω / BNC (Composite NTSC/PAL)                                      |   |
| IR Range                | 98 ft. (30m)   |   | 164 ft. (50m)   |   |
| Local Storage           | Micro SD / SDHC / SDXC slot, up to 128GB (card not included)   |   |   |   |
| Intelligence            | Motion Detection, Video tampering, Network disconnected, IP address conflict, Illegal login, HDD full, HDD error |   |   |   |
| I/O                     | 1 - input / 1 - output   |   |   |   |
| Audio                   | N/A  |   | 1 input (line in / mic in, 3.5mm) / 1 output (line out, 3.5mm)                      |   |
| Standard & Integration  | ONVIF® (Profile S/G/T), PSIA, CGI, ISAPI   |   |   |   |
| Voltage Input           | 12VDC / PoE (IEEE 802.3-af)  |   |   |   |
| Operating Temp          | -22 to 140°F (30 to 60°C), Humidity < 95% (non-condensing)   |   |   |   |
| Environmental Rating    | IP67   |   |   |   |
| Certification           | EMC USA, EMC Europe, UL/cUL, WEEE, LVD, RoHS, REACH, China RoHS  |   |   |   |
| Cable Harness           | Yes  |   | only H-versions   |   |

## Series 6 IP Cameras Ordering Information

| 2MP, 4MP AND 8MP(4K) IP BULLET CAMERAS |   |
|--|---|
| <b>TVB-5602</b>                        | TruVision 4MP, H.265/H.264, IP Fixed Lens Bullet Camera, 4mm, True D/N, WDR, 30m IR, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67  |
| <b>TVB-5603</b>                        | TruVision 8MP/4K, H.265/H.264, IP Fixed Lens Bullet Camera, 2.8-12mm Motorized, True D/N, WDR, 50m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE+ (802.3-at)/12VDC, IP67, IK10                            |
| <b>TVB-5605/<br/>TVB-5605H</b>         | TruVision 4MP, H.265/H.264, IP VF Bullet Camera, 2.8-12mm Motorized, True D/N, WDR, 50m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE+ (802.3-at)/12VDC, IP67, IK10 (Cable harness on H-versions only)    |
| <b>TVB-5606/<br/>TVB-5606H</b>         | TruVision 8MP/4K, H.265/H.264, IP VF Bullet Camera, 2.8-12mm Motorized, True D/N, WDR, 50m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE+ (802.3-at)/12VDC, IP67, IK10 (Cable harness on H-versions only) |

## Series 6 IP Dome Cameras Specifications






|                         | Fixed Lens   |   | Motorized Varifocal Lens  |   |
|-------------------------|--|---|---|---|
|                         | 4MP  | 8MP (4K)  | 4MP   | 8MP (4K)  |
|                         | TVD-5602   | TVD-5603  | TVD-5605/<br>TVD-5605H  | TVD-5606/<br>TVD-5606H  |
|                         |                 |  |  |  |
| Color                   | Gray   |   | White   |   |
| Sensor                  | 1/2.8" Progressive Scan, CMOS  | 1/2.5" Progressive Scan, CMOS   | 1/2.8" Progressive Scan, CMOS   | 1/2.5" Progressive Scan, CMOS   |
| Max Resolution          | 2560 x 1440  | 3840 x 2160   | 2560 x 1440   | 3840 x 2160   |
| Multiple Streaming      | Triple Stream  |   |   |   |
| Day/Night               | True D/N, IR cut filter  |   |   |   |
| Wide Dynamic Range      | WDR (120 dB)   |   |   |   |
| Digital S/N Ratio       | 50 dB (AGC Off)  |   |   |   |
| IP Compression/Standard | H.265 / H.264 / MJPEG  |   |   |   |
| Minimum Illumination    | Colour: 0.01 lux @ (f1.2, AGC On); 0.018 lux @ (f1.6, AGC On); 0 lux with IR                     | Colour: 0.01 lux @ (f1.2, AGC On); 0.028 lux @ (f2.0, AGC On); 0 lux with IR      | Colour: 0.01 lux @ (f1.2, AGC On); 0.018 lux @ (f1.6, AGC On); 0 lux with IR        |   |
| Lens                    | 2.8mm; horizontal FOV: 98°; vertical FOV: 55°; diagonal FOV: 114°                                | 2.8mm; horizontal FOV: 102°; vertical FOV: 53°; diagonal FOV: 124°                | 2.8 to 12mm; horizontal FOV: 98° to 28°; vertical FOV: 51° to 16°                   | 2.8 to 12mm; horizontal FOV: 105° to 34.5°; vertical FOV: 55° to 19°                |
| Video Output            | N/A  |   | H-versions: 1 - 75Ω / BNC (Composite NTSC/PAL)                                      |   |
| IR Range                | 98 ft. (30m)   |   |   |   |
| Local Storage           | Micro SD / SDHC / SDXC slot, up to 128GB (card not included)                                     |   |   |   |
| Intelligence            | Motion Detection, Video tampering, Network disconnected, IP address conflict, Illegal login, HDD |   |   |   |
| I/O                     | 1 - input / 1 - output   |   |   |   |
| Audio                   | 1 input (line in / mic in, 3.5mm) / 1 output (line out, 3.5mm)                                   |   |   |   |
| Standard & Integration  | ONVIF® (Profile S/G/T), PSIA, CGI, ISAPI   |   |   |   |
| Voltage Input           | 12VDC / PoE (IEEE 802.3-af)  |   |   |   |
| Operating Temp          | -22 to 140°F (30 to 60°C), Humidity < 95% (non-condensing)                                       |   |   |   |
| Environmental Rating    | IP67   |   |   |   |
| Vandal Rating           | IK10   |   |   |   |
| Certification           | EMC USA, EMC Europe, UL/cUL, WEEE, LVD, RoHS, REACH, China RoHS                                  |   |   |   |
| Cable Harness           | Yes  |   | only H-versions   |   |

### 4MP AND 8 MP (4K) IP DOME CAMERAS

|                                |  |
|--------------------------------|--|
| <b>TVD-5602</b>                | TruVision 4MP, H.265/H.264, IP Fixed Lens Dome Camera, 2.8mm, True D/N, WDR, 30m IR, Micro SD/SDHC/SDXC Slot, Audio, I/Os, PoE (802.3-af)/12VDC, IP67, IK10  |
| <b>TVD-5603</b>                | TruVision 8MP/4K, H.265/H.264, IP Fixed Lens Dome Camera, 2.8-12mm Motorized, True D/N, WDR, 30m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, IK10                            |
| <b>TVD-5605/<br/>TVD-5605H</b> | TruVision 4MP, H.265/H.264, IP VF Dome Camera, 2.8-12mm Motorized, True D/N, WDR, 30m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, IK10 (Cable harness on H-versions only)    |
| <b>TVD-5606/<br/>TVD-5606H</b> | TruVision 8MP/4K, H.265/H.264, IP VF Dome Camera, 2.8-12mm Motorized, True D/N, WDR, 30m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, IK10 (Cable harness on H-versions only) |

# TruVision® IP Products


## Series 6 IP Turret Cameras Specifications

|                         |  |   | Motorized Varifocal Lens  |   |   |
|-------------------------|--|---|---|---|---|
|                         | 4MP  | 8MP (4K)  | 2MP   | 4MP (4K)  | 8MP/4K  |
|                         | TVT-5604<br>TVT-5605<br>TVT-5606   | TVT-5607  | TVT-5608<br>TVT-5608H   | TVT-5610<br>TVT-5610H   | TVT-5611H<br>TVT-5611   |
|                         |                                 |  |              |              |    |
| Color                   | Gray / White / Black   | Gray  | Gray  | White   | Gray  |
| Sensor                  | 1/2.8" Progressive Scan, CMOS  | 1/2.5" Progressive Scan, CMOS   | 1/2.8" Progressive Scan, CMOS   |   | 1/2.5" Progressive Scan, CMOS   |
| Max resolution          | 2560 x 1440  | 3840 x 2160   | 1920 x 1080   | 2560 x 1440   | 3840 x 2160   |
| Multiple Streaming      | Triple Stream  |   |   |   |   |
| Day/Night               | True D/N, IR cut filter  |   |   |   |   |
| Wide Dynamic Range      | WDR (120 dB)   |   |   |   |   |
| Digital S/N Ratio       | 50 dB (AGC Off)  |   |   |   |   |
| IP Compression/Standard | H.265 / H.264 / MJPEG  |   |   |   |   |
| Minimum Illumination    | Color: 0.01 lux @ (f1.2, AGC On); 0.018 lux @ (f1.6, AGC On); 0 lux with IR                                      | Color: 0.01 lux @ (f1.2, AGC On); 0.028 lux @ (f2.0, AGC On); 0 lux with IR       | Color: 0.01 lux @ (f1.2, AGC On); 0.018 lux @ (f1.6, AGC On); 0 lux with IR                   |   |   |
| Lens                    | 2.8mm; horizontal FOV: 98°; vertical FOV: 55°; diagonal FOV: 114°  | 2.8mm; horizontal FOV: 102°; vertical FOV: 53°; diagonal FOV: 124°                | 2.8 to 12mm; horizontal FOV: 110° to 31°; vertical FOV: 58° to 18°; diagonal FOV: 136° to 36° | 2.8 to 12mm; horizontal FOV: 105° to 34.5°; vertical FOV: 55° to 19°; diagonal FOV: 125° to 40° | 2.8 to 12 mm @ F1.6 motorized lens. Horizontal field of view: 105 to 34.5°, Vertical field of view: 55 to 19°, Diagonal field of view: 125 to 40° |
| Video Output            | N/A  |   |   |   |   |
| IR Range                | 98 ft. (30m)   |   |   |   |   |
| Local Storage           | Micro SD / SDHC / SDXC slot, up to 128GB (card not included)   |   |   |   |   |
| Intelligence            | Motion Detection, Video tampering, Network disconnected, IP address conflict, Illegal login, HDD full, HDD error |   |   |   |   |
| I/O                     | 1 - input / 1 - output   |   |   |   |   |
| Audio                   | N/A  | 1 input (line in / mic in, 3.5mm) / 1 output (line out, 3.5mm)                    |   |   |   |
| Standard & Integration  | ONVIF® (Profile S/G/T), PSIA, CGI, ISAPI   |   |   |   |   |
| Voltage Input           | 12VDC / PoE (IEEE 802.3-af)  |   |   |   |   |
| Operating Temp          | -22 to 140°F (30 to 60°C), Humidity < 95% (non-condensing)   |   |   |   |   |
| Environmental Rating    | IP67   |   |   |   |   |
| Vandal Rating           | N/A  | IK10  |   |   |   |
| Certification           | EMC USA, EMC Europe, UL/cUL, WEEE, LVD, RoHS, REACH, China RoHS  |   |   |   |   |

## Series 6 IP Cameras Ordering Information

| 2MP, 4MP AND 8MP (4K) IP TURRET CAMERAS |   |
|---|---|
| <b>TVT-5604</b>                         | TruVision 4MP, H.265/H.264, IP Fixed Lens Turret Camera, 2.8mm, True D/N, WDR, 30m IR, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, Gray                            |
| <b>TVT-5605</b>                         | TruVision 4MP, H.265/H.264, IP Fixed Lens Turret Camera, 2.8mm, True D/N, WDR, 30m IR, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, White                           |
| <b>TVT-5606</b>                         | TruVision 4MP, H.265/H.264, IP Fixed Lens Turret Camera, 2.8mm, True D/N, WDR, 30m IR, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, Black                           |
| <b>TVT-5607</b>                         | TruVision 8MP/4K, H.265/H.264, IP Fixed Lens Turret Camera, 2.8mm, True D/N, WDR, 30m IR, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, Gray                         |
| <b>TVT-5608</b>                         | TruVision 2MP, H.265/H.264, IP VF Turret Camera, 2.8-12mm Motorized, True D/N, WDR, 30m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, IK10, Gray    |
| <b>TVT-5609</b>                         | TruVision 4MP, H.265/H.264, IP VF Turret Camera, 2.8-12mm Motorized, True D/N, WDR, 30m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, IK10, Gray    |
| <b>TVT-5610</b>                         | TruVision 4MP, H.265/H.264, IP VF Turret Camera, 2.8-12mm Motorized, True D/N, WDR, 30m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, IK10, White   |
| <b>TVT-5611</b>                         | TruVision 8MP/4K, H.265/H.264, IP VF Turret Camera, 2.8-12mm Motorized, True D/N, WDR, 30m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP67, IK10, Gray |

## Series 6 IP Wedge Cameras Specifications

| 4MP   |  |
|---|--|
| TVW-5605  |  |
|  |  |
| Color   | Gray   |
| Sensor  | 1/3" Progressive Scan, CMOS  |
| Max Resolution  | 2560 x 1440  |
| Multiple Streaming  | Triple Stream  |
| Day/Night   | True D/N, IR cut filter  |
| Wide Dynamic Range  | WDR (120 dB)   |
| Digital S/N Ratio   | 50 dB (AGC Off)  |
| IP Compression/<br>Standard   | H.265 / H.264 / MJPEG  |
| Minimum Illumination  | Color: 0.01 lux @ (f1.2, AGC On), 0 lux with IR;<br>Color: 0.018 lux @ (f1.6, AGC On); 0 lux with IR |
| Lens  | 2.8mm;<br>horizontal FOV: 98°; vertical FOV: 72°;<br>diagonal FOV: 129°                              |
| Video Output  | N/A  |
| IR Range  | 33 ft. (10m)   |
| Local Storage   | Micro SD / SDHC / SDXC slot, up to 128GB (card not included)   |
| Intelligence  | Motion Detection, Video tampering, Network disconnected, IP address conflict, Illegal login          |
| I/O   | 1 - input / 1 - output   |
| Audio   | 1 input (line in / mic in, 3.5mm) / 1 output (line out, 3.5mm)                                       |
| Standard & Integration  | ONVIF® (Profile S/G), PSIA, CGI, ISAPI   |
| Voltage Input   | 12VDC / PoE (IEEE 802.3-af)  |
| Operating Temp  | -22 to 140°F (30 to 60°C), Humidity < 95% (non-condensing)   |
| Environmental Rating  | IP66   |
| Vandal Rating   | IK8  |
| Certification   | EMC USA, EMC Europe, UL/cUL, WEEE, LVD, RoHS, REACH, China RoHS                                      |
| Cable Harness   | Yes  |

## Series 6 IP Camera Ordering Information

| 2MP AND 4MP IP WEDGE CAMERAS |   |
|------------------------------|---|
| <b>TVW-5605</b>              | TruVision 4MP, H.265/H.264, IP Fixed Lens Wedge Camera, 2.8mm, True D/N, WDR, 10m IR, Micro SD/SDHC/SDXC Slot, Audio, I/Os, PoE (802.3-af)/12VDC, IP66, IK8, Gray |



## Comprehensive coverage, unmatched performance

The TruVision line from Aritech brings the benefit of digital security monitoring to commercial applications.

# TruVision® IP Products

## IP Megapixel PTZ Cameras



### IP Compact PTZ Cameras



- 2MP or 3MP resolution
- H.265/H.264 compression technology
- 4X or 20X optical, 16X digital (depending on model)
- Triple streaming
- True day/night
- IR illumination (ranges vary depending on model)
- 3-year warranty

### IP Compact PTZ Cameras Ordering Information

#### 2MP & 3MP IP COMPACT PTZ CAMERAS

|                 |   |
|-----------------|---|
| <b>TVP-5101</b> | TruVision 2MP, Compact IP PTZ, 4X Optical Zoom, 350° Pan, H.265, H.264, Indoor, Surface Mount, True D/N, DWDR, 20m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, PoE/12VDC                 |
| <b>TVP-5102</b> | TruVision 2MP, Compact IP PTZ, 20X Optical Zoom, H.265, H.264, Outdoor, Pendant/Wall Mount, True D/N, WDR, 150m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, Hi-PoE (Max 32W)/24VAC, IP66 |
| <b>TVP-5103</b> | TruVision 3MP, Compact IP PTZ, 20X Optical Zoom, H.265, H.264, Outdoor, Surface Mount, True D/N, WDR, 50m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, PoE+/12VDC, IP66                   |

### IP Compact PTZ Cameras Specifications

|                         | Indoor/Outdoor   |  |   |
|-------------------------|--|--|---|
|                         | 2MP  | 3MP  |   |
|                         | TVP-5101   | TVP-5102   | TVP-5103  |
| Sensor                  | 1/2.8" Progressive Scan, CMOS  |  |   |
| Resolution              | 1920 x 1080 @ 30fps  |  | 2048 x 1536 @ 30fps   |
| Multiple Streaming      | Triple   |  |   |
| Day/Night               | True D/N, IR cut filter  |  |   |
| Wide Dynamic Range      | DWDR   | WDR (120 dB)   |   |
| Digital Noise Reduction | 3DNR   |  |   |
| Digital S/N Ratio       | >52 dB (AGC Off)   |  |   |
| Electronic Shutter      | 1 - 1/10,000 s   | 1 - 1/30,000 s   |   |
| IP Compression/Standard | H.264 / H.265 / MJPEG  |  |   |
| Minimum Illumination    | Color: 0.05 lux @ (f2.0, AGC On); B/W: 0.005 lux   | Color: 0.05 lux @ (f1.6, AGC On); B/W: 0.01 lux                            |   |
| IR Range                | 66 ft. (20m)   | 492 ft. (150m)   | 164 ft. (50m)   |
| Lens                    | 2.8 to 12mm (f1.8 to f2.5)   | 4.7 to 94.0mm (f1.6 to f3.5)   |   |
| Zoom Range              | 4X Optical / 16X Digital   | 20X Optical / 16X Digital  |   |
| Pan Range and Speed     | Range: 350° maximum (it does not pan 360°); Manual Speed: 0.1 to 60°/sec   | Range: 360° endless; Manual Speed: 0.1 to 400°/sec; Preset Speed: 400°/sec | Range: 360° endless; Manual Speed: 0.1 to 300°/sec; Preset Speed: 350°/sec  |
| Tilt Range and Speed    | Range: 0° to 90°; Manual Speed: 0.1 to 50°/sec   | Range: -15° to 90°; Manual Speed: 0.1 to 200°/sec; Preset Speed: 200°/sec  | Range: -5° to 90°; Manual Speed: 0.1 to 160°/sec; Preset Speed: 200°/sec  |
| Video Output            | --   | 1 Vp-p Composite Output (75Ω / BNC)  | --  |
| Presets                 | 300  |  |   |
| Patrol                  | 8 patrols, up to 32 presets per patrol   |  |   |
| Intelligence            | Motion Detection, Cross Line Detection, Audio Exception Detection  |  | Intrusion Detection, Cross Line Detection, Audio Exception Detection, Face Detection, Region Entrance Detection, Region Exiting Detection, Intelligent Tracking |
| Privacy Mask            | 8  |  |   |
| Local Storage           | Micro SD / SDHC / SDXC Slot (card not included), up to 128GB   |  |   |
| I/O                     | 1 - Input / 1 - Output   | 2 - Inputs / 1 - Output  | 2 - Inputs / 2 - Outputs  |
| Audio                   | 1 Mic in / Line in interface, Line input: 2-2.4V[p-p]; Output impedance 1kΩ, ±10%; 1 Audio output interface, Line level, Impedance: 600Ω |  |   |
| Voltage Input           | 12VDC  | 24VAC  | 12VDC, Power Supply included. Power/line cord is not included.  |
| PoE                     | PoE  | Hi-PoE   | PoE+  |
| Operating Temp          | -14 to 122°F (-10 to 50°C); Humidity 90% or less (non-condensing)  | -40 to 149°F (-40 to 65°C); Humidity 90% or less (non-condensing)          |   |
| IP Rating               | N/A, Indoor Only   | IP66   |   |
| Vandal Rating           | --   |  |   |
| Standard & Integration  | ONVIF® (Profile G/S), PSIA, CGI, ISAPI   |  |   |
| Certification           | FCC, CE, UL, C-Tick, REACH, RoHS, WEEE   |  |   |

# TruVision® IP Products

## 360° fisheye cameras



### TruVision 360° IP camera, 6 MP and 12 MP



- 6MP and 12MP resolution
- H.265 compression
- ImmerVision panomorph lens
- Video intelligence (VCA)
- Built-in IR: 15 m
- 180 and 360° panoramic views
- Multiple fisheye + ePTZ combined viewing modes
- Edge recording up to 256 GB with optional SDHC card
- Ceiling, wall and desk mount options
- Alarm input/output
- IP67 and IK10 (outdoor models)

### 360° fisheye Panoramic IP Camera Specifications

|                       | Outdoor   |  |
|-----------------------|---|--|
|                       | 6MP   | 12MP   |
|                       | TVF-5203  | TVF-5204   |
| Sensor                | 1/1.8" Progressive Scan, CMOS   | 1/1.8" Progressive Scan, CMOS  |
| Max. Resolution/fps   | 3072 x 2048 @ 25/30 fps   | 4000 x 3000 @ 20 fps   |
| Multiple Streaming    | Main Stream: 1280 x 1280, 2048 x 2048, 3072 x 2048<br>Sub Stream: 720 x 720"  | Main Stream: 2560 x 2560, 3000 x 3000, 4000 x 3000<br>Sub Stream: 720 x 720" |
| Day/Night             | True D/N, IR cut filter   |  |
| Wide Dynamic Range    | WDR (120 dB)  | DWDR   |
| Video Compression     | H.265, H.264, MJPEG   |  |
| Minimum Illumination  | "Colour: 0.01 Lux @ (F1.2, AGC ON)<br>B/W: 0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR"   |  |
| Lens                  | 1.29 mm ImmerVision panomorph lens  |  |
| IR Range              | 15m   |  |
| Local Storage         | Micro SD/SDHC/SDXC slot, up to 256GB  |  |
| Intelligence          | Heat Map, Intersection Analysis, Audio exception detection, Heat map, Intersection analysis, Intrusion detection, Line crossing detection, Object removal detection, People counting, Region entrance detection, Region exiting detection, Unattended baggage detection |  |
| I/O                   | 1 input / 1 output  |  |
| Audio                 | Bi-directional, built-in speaker & mic  |  |
| Integration           | CGI, ISAPI, ONVIF Profile G, ONVIF Profile S, ONVIF Profile T, PSIA   |  |
| Operating Voltage     | 12 VDC ±20%, PoE+ (802.3 at, class 4)   |  |
| Operating Temperature | -40 to +60°C  |  |
| IP Rating             | IP67  |  |
| Vandal Rating         | IK10  |  |

### Ordering Information

#### 360° INDOOR/OUTDOOR PANORAMIC CAMERAS

**TVF-5201** TruVision 360° IP camera, 6 MP, outdoor, 15m IR, 360° fisheye lens

**TVF-5204** TruVision 360° IP camera, 12 MP, outdoor, 15m IR, 360° fisheye lens

#### Accessories

**TVF-BBM** TruVision 360 degree camera round back box, conduit ports, gang box compatible, metal, indoor & outdoor

**TVF-CBM** TruVision 360 degree camera cup base (use with TVD-PPB for pendant mount or TVD-SNB for wall mount)

**TVF-WBM** TruVision 360 degree Camera round angled back box, conduit ports, gang box compatible, metal, indoor & outdoor

## Specialty cameras



### Multi-imager Panoramic IP Cameras



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

### Ordering Information

| MULTI-IMAGER PANORAMIC IP CAMERA |  |
|----------------------------------|--|
| <b>TVS-5101</b>                  | 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 |
| <b>Accessories</b>               |  |
| <b>TVMI-WM</b>                   | TruVision Multi-imager camera Wall Mount   |
| <b>TVMI-PM</b>                   | TruVision Multi-imager Pendant Mount bracket, 57 mm / 2.24 in  |
| <b>TVMI-PM2</b>                  | TruVision Multi Imager Pendant Mount bracket, 200 mm / 7.87 in   |
| <b>TVMI-PM3</b>                  | TruVision Multi Imager Pendant Mount bracket, 500 mm / 19.7 in   |
| <b>TVMI-PMA</b>                  | TruVision Multi-imager Pendant Mount extension pipe, 500 mm / 19.68 in   |

### Multi-imager Panoramic IP Camera Specifications

|                       | Indoor/outdoor<br>Multi-imager Panoramic IP Camera<br>TVS-5101   |
|-----------------------|--|
| Cameras               | Four repositionable cameras  |
| Sensors               | 1/2.7" Progressive CMOS (4x)   |
| No. of Channels       | Four individual live stream channels of max. 5MP each  |
| Stitched Panoramic    | No, four independent video streams   |
| Max. Resolution/fps   | 2560 x 1920 @ 25/30 fps per camera (4x)  |
| Multiple Streaming    | "Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2048 x 1536 (QXGA), 2560 x 1920<br>Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF)<br>Third stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p),  |
| Day/Night             | True Day/Night   |
| Wide Dynamic Range    | 120 dB   |
| Video Compression     | H.265, H.264, MJPEG  |
| Minimum Illumination  | "Color: 0.006 Lux @ (F1.2, AGC ON), 0.010 Lux @ (F1.6,   |
| Lens                  | Motorized 2.8 to 12 mm (horizontal FoV: 30 to 101°,  |
| IR Range              | Up to 30m  |
| Local Storage         | Micro SD/SDHC/SDXC up to 128GB   |
| Intelligence          | 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 |
| I/O                   | 2 inputs/2 outputs   |
| Audio                 | 1 line-input / 1 line-output   |
| Integration           | ONVIF Profile G, ONVIF Profile S, CGI, PSIA, ISAPI   |
| Operating Voltage     | "12 VDC ± 20%, 2.3 A, max. 28 W  |
| Operating Temperature | -40 to +60°C (heater startup at -40°C)   |
| Environmental Rating  | IP67   |
| Vandal Rating         | IK10   |
| Certification         | CE, cUL, FCC, REACH, RoHS, UL, WEEE  |



## Specialty Cameras



### IP Dual Lens People Counting Cameras



- Resolution 1920 x 1080
- H.265 and/or H.264 compression
- Dual lens, 2 mm fixed
- IR up to 6 m
- ONVIF compliant
- Internal eMMC memory for counting data

### Specialty IP Cameras Ordering Information

#### PEOPLE COUNTING CAMERAS

##### TVS-PC1

TruVision IP Dual Lens People Counting Camera, Outdoor, 2 MP, 2 mm, IP67



View our People Counting Solution Video  
<https://youtu.be/9GUT4eDQtmk>

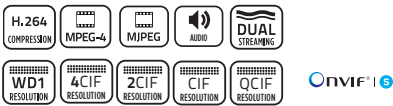
### People Counting Cameras Specifications

|                             | Outdoor<br>People Counting Cameras   |
|-----------------------------|--|
|                             | TVS-PC1  |
| Technology                  | IP   |
| Video Standard              | PAL  |
| Image settings              | ROI (Region Of Interest)   |
| Software                    | TruVision Navigator, Web Browser   |
| Sensor Size                 | 1/2.7"   |
| Max. resolution             | 2 MP   |
| Sensor scan                 | Progressive  |
| Shutter type                | CMOS   |
| Shutter time                | 1/25 s to 1/100,000 s  |
| WDR type                    | Digital WDR  |
| Digital noise reduction     | 3D DNR   |
| Colour sensitivity          | 0.005 Lux @ (F1.2, AGC ON), 0.0176 Lux @ (F2.25, AGC ON)   |
| B/W sensitivity             | 0.001 Lux @ (F1.2, AGC ON), 0.0035 Lux @ (F2.2.5, AGC ON)  |
| Color sensitivity           | 0.01 Lux @ (F1.2, AGC ON)  |
| B/W sensitivity             | 0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR  |
| Infrared (IR)               | Yes  |
| IR range                    | up to 6 m  |
| IR wavelength               | 850 nm   |
| Video streams               | 2  |
| Main stream com-            | H.264, H.265   |
| Sub stream compres-         | H.264, H.265   |
| Main stream resolu-         | 1280 x 720 (XVGA), 1920 x 1080 (1080p)   |
| Sub stream resolutions      | 640 x 480 (VGA), 704 x 576 (4CIF)  |
| Max. resolutions @ fps      | 1920 x 1080 @ 25fps  |
| Lens type                   | Fixed  |
| Focal length                | 2 mm   |
| f-Stop                      | F 2.25   |
| Network interface           | RJ-45 10/100 Mbps self-adaptive Ethernet   |
| Integration                 | ISAPI, ONVIF   |
| Supported network protocols | Bonjour, DDNS, DHCP, DNS, ezDDNS, FTP, HTTP, HTTPS, ICMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, UPnP |
| Audio compression           | G.711, G.722.1, G.726, MP2L2, PCM  |
| Audio in                    | 1 built-in mic, 1 input (line in, two-core terminal)   |
| Audio out                   | 1 output (two-core terminal block)   |
| Alarm inputs                | 1  |
| Alarm outputs               | 1  |
| Alarm I/O connection        | terminal block   |
| Local storage type          | Build in eMMC memory   |
| Alarm trigger               | HDD error, HDD full, Invalid login, IP address conflict, Network   |
| Video analytics             | People counting  |
| Operating voltage           | 12 VDC ± 20%, terminal block / PoE+ (IEEE 802.3af, class 3)  |
| Power consumption           | max. 8 W @ 12 VDC  |
| Current consumption         | 0.66 A @ 12 VDC  |
| Physical dimensions         | 168 x 61 x 41 mm   |
| Net weight                  | 435 g (1 lb)   |
| Colour                      | White  |
| Environment                 | indoor/outdoor, depending on the model   |
| Operating temperature       | -30 to +45°C   |
| Relative humidity           | <95% non-condensing  |
| IP rating                   | IP67   |
| Compliance                  | CE, FCC, RCM, REACH, RoHS, WEEE  |

## Encoders and Decoders



### TVE Series IP Video Encoders



- 4-, 8- and 16-channel encoders
- Supports H.265, H.264, MPEG4 and MJPEG compression
- Encoding resolution 5 MP@12fps, 4 MP@15fps, 3 MP@18fps, 1080p/720p/WD1/4CIF/VGA/CIF@25fps or 30fps
- Dual-streaming functionality
- ONVIF Profile S and CGI support
- Bi-directional audio support
- Alarm input/output support

### High Definition IP Video Decoder



- Supports H.264 and H.265 compression
- Powerful decoding capability, up to 12MP
- Can simultaneously decode up to a maximum of 16 video streams in Full HD
- Multiple video display outputs: You can decode different cameras on the HDMI, VGA and BNC output.
- Supports TruVision recorders and TruVision encoders
- Supports decoding for ONVIF and RTSP streams
- Integrated in TruVision Navigator

#### ENCODERS

|                 |  |
|-----------------|--|
| <b>TVE-420</b>  | TruVision IP encoder, 4 channel 5MP(Max), H.265  |
| <b>TVE-820</b>  | TruVision IP encoder, 8 channel 8MP(Max), H.265  |
| <b>TVE-1620</b> | TruVision IP encoder, 16 channel 8MP(Max), H.265 |

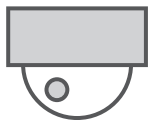
#### DECODER

|                  |  |
|------------------|--|
| <b>TVE-DEC12</b> | TruVision Decoder for 16 Full HD streams, (HDMI, VGA, BNC) |
|------------------|--|



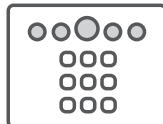
# Unified control for maximum security.

TruVision® Navigator brings video, access control, intrusion and transmission together as one integrated solution.



 **truVision**

Easy to install and operate, TruVision cameras, recorders, monitors and interfaces bring the benefits of digital monitoring to commercial applications.



 **ultraSync**

The UltraSync ZeroWire/xGen brings together multiple components to create a flexible, scalable and customizable intrusion system.



 **ifs**

IFS® products provide efficient, effective media transmission to meet modern surveillance challenges and demanding security environments.

## HD-Hybrid Digital Video Recorders

TruVision's HD-TVI technology delivers up to 8MP high definition quality video over standard analog coax cable. These recorders are a true hybrid design supporting a combination of standard analog, HD-TVI and IP cameras.

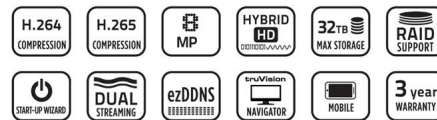


### TVR16



- 4-, 8- or 16-channel real-time full HD recording
- Support for H.264 and H.265 encoding
- Connect standard analog, HD-TVI, HD-CVI, HD-AHD or IP cameras
- HD-TVI over coax technology supports up to 5MP resolution (4ch) and up to 8MP (4k) resolution (8, 16 ch)
- Support for HD-CVI cameras up to 4MP resolution
- Support for HD-AHD cameras up to 5MP resolution
- High definition HD-TVI/HD-CVI/ /HD-AHD cameras can be used with standard RG59 coax cable
- Swap analog channels for IP cameras
- Up to 6 TB internal storage
- HDMI port for local high definition viewing

### TVR46



- 16 or 32 channel real-time full HD recording
- Support for H.264 and H.265 encoding
- Connect standard analog, HD-TVI, HD-CVI, HD-AHD or IP cameras
- HD-TVI over coax technology supports up to up to 8MP (4k resolution)
- Support for HD-CVI cameras up to 4MP resolution
- Support for HD-AHD cameras up to 5MP resolution
- High definition HD-TVI/HD-CVI/ /HD-AHD cameras can be used with standard RG59 coax cable
- Swap analog channels for IP cameras
- Up to 32 TB internal storage
- HDMI port for local high definition viewing

## High-definition video made easy



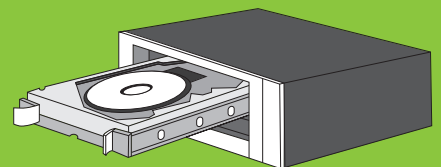
### Analog to IP Migration

Protects your cabling investment by supporting analog, HD-TVI and IP cameras.



### HD Video over Existing Coax

Reduce installation and cabling costs using existing analog coax cable to record and view up to 8MP HD video.



### Expandable Storage

Drop-down, lockable front panel provides convenient direct access to camera channels and controls, as well as user-accessible storage expansion. (DVR 46 Only)

### Analog/Hybrid Digital Video Recorders Comparison Table

|                        | DVR 16c  | DVR 16         | DVR 46             |                    |
|------------------------|--|----------------|--------------------|--------------------|
| Channels & Performance | Analog channels                                      | 4              | 8/16               | 16/32              |
|                        | Maximum IP channels (when disabling analog channels) | 4              | 8/16               | 16/32              |
|                        | Real-time recording                                  | Full HD 1080p  | Full HD 1080p      | Full HD 1080p      |
|                        | Max resolution analog / IP                           | 5MP / 8MP (4k) | 8MP (4k) analog/IP | 8MP (4k) analog/IP |
|                        | Audio channels analog                                | 4              | 4                  | 4                  |

|                     |  |                 |                      |  |
|---------------------|--|-----------------|----------------------|--|
| Network & Streaming | Ethernet ports                           | (1) 10/100 Mbps | (1) 10/100/1000 Mbps | (2) 10/100/1000 Mbps   |
|                     | ezDDNS                                   | •               | •                    | •  |
|                     | Maximum outgoing video streams           | 128             | 128                  | 128  |
|                     | Maximum in/out combined bandwidth (Mbps) | 96              | 128                  | 16 ch: 260 Mbps combined<br>32ch: 260 Mbps in;<br>220 Mbps out |
|                     | Accepts ONVIF cameras                    | •               | •                    | •  |

|         |                             |   |     |    |
|---------|-----------------------------|---|-----|----|
| Storage | Max storage (TB)            | 2 | 6/6 | 32 |
|         | SATA interfaces             | 1 | 2   | 4  |
|         | HDD redundancy              | — | —   | •  |
|         | Front side accessible HDDs  | — | —   | •  |
|         | Expandable internal storage | — | —   | •  |
|         | eSATA support               | — | —   | —  |
|         | NAS support                 | • | •   | •  |
|         | Dual stream recording       | • | •   | •  |
|         | Auto archive                | — | —   | •  |

|                          |                      |                     |                           |                             |
|--------------------------|----------------------|---------------------|---------------------------|-----------------------------|
| Local Viewing & Controls | Front panel controls | •                   | •                         | •                           |
|                          | Browser interface    | •                   | •                         | •                           |
|                          | HDMI                 | •                   | •                         | • (2)                       |
|                          | VGA                  | •                   | •                         | •                           |
|                          | BNC output           | Event Only          | Event Only                | Event Only                  |
|                          | Bidirectional audio  | •                   | •                         | •                           |
|                          | Alarm input/output   | 4/1                 | 8-ch: 8/4;<br>16-ch: 16/4 | 16/4                        |
|                          | Keypad support       | TVK-800,<br>TVK-600 | TVK-800,<br>TVK-600       | TVK-800,<br>TVK-600         |
|                          | USB slots            | 2                   | 2                         | (2) USB 2.0,<br>(1) USB 3.0 |

|                  |                              |               |               |               |
|------------------|------------------------------|---------------|---------------|---------------|
| General Features | Analytics on analog channels | • (max. 2 ch) | • (max. 2 ch) | • (max. 2 ch) |
|                  | Text insertion               | —             | —             | —             |
|                  | CD/DVD burner                | Via USB       | Via USB       | Via USB       |
|                  | Reverse playback             | •             | •             | •             |
|                  | Size                         | 1U            | 1U            | 1.5U          |
|                  | Rack mountable               | —             | •             | •             |

|                  |                     |  |  |            |
|------------------|---------------------|--|--|------------|
| Software Support | TruVision Navigator | •  | •  | •          |
|                  | TVRMobile           | •  | •  | •          |
|                  | OnGuard®            | Planned for version 8.1                            | Planned for version 8.1                            | V 7.6      |
|                  | Advisor Manager     | V.2018SP2 w/<br>TruVision driver<br>V.16.2.0.16857 | V.2018SP2 w/<br>TruVision driver<br>V.16.2.0.16857 | V.2018 SP1 |

### Analog/HD-Hybrid Video Recorders Ordering Information

| DVR 16       |   |
|--------------|---|
| TVR-1608-2T  | TruVision DVR 16, Hybrid, 8 channel, 2TB            |
| TVR-1608-4T  | TruVision DVR 16, Hybrid, 8 channel, 4TB            |
| TVR-1616-4T  | TruVision DVR 16, Hybrid, 16 channel, 4TB           |
| TVR-1616-6T  | TruVision DVR 16, Hybrid, 16 channel, 6TB           |
| DVR 46       |   |
| TVR-4616-2T  | TruVision DVR 46, Hybrid, 16 channel, 2TB (1 x 2TB) |
| TVR-4632-000 | TruVision DVR 46, Hybrid, 32 channel, 000 TB        |

## Analogue Cameras

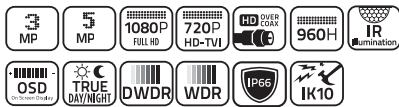
TruVision analog camera line support standard analog, 960H and HD-TVI technology. TruVision's HD-TVI technology delivers up to 8MP high definition quality video over standard analog coax cable.

### HD-TVI Cameras



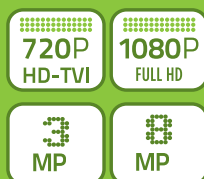
HD-TVI

### HD-TVI Analogue Cameras



- Box, Bullet, Dome, Turret and Wedge form factors
- 720p, 1080p, 3MP, 5MP HD resolutions
- Select modules also support 960H resolution
- 720p models provide DWDR; 1080p and 3MP models provide True WDR (120 dB)
- True Day/Night functionality and IR Illuminators with Smart IR function on select models

## Performance, flexibility and ease of use



### Improved Performance

HD-TVI cameras provide up to 8MP video resolution with exceptional low-light performance under dynamic conditions.



### Multiple Form-factor Choices

Solutions to meet a variety of operating conditions, from fixed and varifocal choices, form-factor styles and indoor/outdoor environments.





### Easy to install

Designed to be installed quickly and easily. Many cameras install with just two screws. Select models offer OSD control and built-in cable protection/management.








## HD-TVI Cameras Specifications






The TruVision® line includes a comprehensive family of HD-TVI infrared (IR) cameras for stand-alone or integrated installations, designed for up to 5MPx image quality over existing coaxial cable.

|                      | Turret Cameras  |   |
|----------------------|---|---|
|                      | 5MP   |   |
|                      | TVT-6101  | TVT-6102  |
|                      |  |  |
| Sensor               | 5MP Progressive Scan, CMOS  |   |
| Standard             | HD-TVI  |   |
| Resolution           | 5MP Analog  |   |
| Effective Pixels     | 2592(H) x 1944(V)   |   |
| Synchronization      | Internal  |   |
| Electronic Shutter   | NTSC: 1/30 s to 1/50,000 s; PAL 1/25 s to 1/50,000 s                              |   |
| Digital S/N Ratio    | >62 dB  |   |
| Lens                 | 2.8mm fixed   | 2.7~13.5mm motorized VF   |
| Day/Night            | True D/N, IR cut filter   |   |
| Wide Dynamic Range   | WDR   |   |
| Minimum Illumination | 0.003 lux @ (f1.2, AGC On); 0 lux with IR On                                      |   |
| IR Range             | 30m   | 60m   |
| Video Output         | 5MP HD-TVI or 960H  |   |
| Voltage Input        | 12 VDC  | 12 VDC / 24VAC  |
| Operating Temp       | -40 to 140°F (-40 to 60°C), Humidity <90% (non-condensing)                        |   |
| Environmental Rating | IP67  |   |
| Certification        | FCC, CE, UL, REACH, RoHS, WEEE  |   |



# TruVision® HD/Analogue Products

|                      | Bullet Cameras  |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|
|                      | Fixed Lens  |   | Varifocal Lens  |   | Motorized Varifocal Lens  |   |   |
|                      | 720p  |   | 1080p   |   | 5MP   |   | 8MP   |
|                      | TVB-2401  | TVB-6101  | TVB-6102  | TVB-6103  | TVB-6104  | TVB-6105  | TVB-6106  |
|                      |      |  |  |  |  |  |  |
| Sensor               | 1/3" Progressive Scan, CMOS   |   |   |   |   |   |   |
| Standard             | HD-TVI  |   |   |   |   |   |   |
| Effective Pixels     | 1280(H) x 720(V)  |   | 1920(H) x 1080 (V)  |   | 2560(H) x 1944(V)   |   | 3840(H) x 2160(V)   |
| Synchronization      | Internal  |   |   |   |   |   |   |
| Electronic Shutter   | NTSC: 1/30 s to 1/30,000 s; PAL: 1/25 s to 1/50,000 s                                 |   |   |   |   |   |   |
| Digital S/N Ratio    | 52 dB (AGC Off)   | 62 dB (AGC Off)   |   |   |   |   |   |
| Lens                 | 3.6mm fixed   | 2.7~13.5mm motorized  | 3.6mm fixed   | 2.7~13.5mm motorized  | 3.6mm fixed   | 2.7~13.5mm motorized  | 2.7~13.5mm motorized  |
| Day/Night            | True D/N, IR cut filter   |   |   |   |   |   |   |
| Wide Dynamic Range   | DWDR  | 1130 dB WDR on HD-TVI output only   |   |   |   |   |   |
| Minimum Illumination | Color 0.01 lux @ (f1.2, AGC On);<br>B/W: 0.001 lux @ (f1.2, AGC On); 0 lux with IR On | Color 0.003 lux @ (f1.2, AGC On); 0 lux with IR On                                |   |   |   |   |   |
| IR Range             | Up to 20m   | Up to 80m   | Up to 30m   | Up to 80m   | Up to 30m   | Up to 80m   | Up to 80m   |
| Video Output         | HD-TVI or 960H Composite  |   |   |   |   |   |   |
| Voltage Input        | 12 VDC  | 12 VDC / 24 VAC   | 12 VDC  | 12 VDC / 24 VAC   | 12 VDC  | 12 VDC / 24 VAC   | 12 VDC / 24 VAC   |
| Operating Temp       | -30 to 60°C   | -40 to 60°C   |   |   |   |   |   |
| Environmental Rating | IP66  | IP67  |   |   |   |   |   |
| Certification        | FCC, CE, UL, RCM, REACH, RoHS, WEEE   |   |   |   |   |   |   |

|                      | Dome Cameras  |   |   |   |   |
|----------------------|---|---|---|---|---|
|                      | Fixed Lens  |   | Varifocal Lens  |   | Motorized Varifocal Lens  |
|                      | 720p  |   | 1080p   |   | 5MP   |
|                      | TVD-2401  | TVD-6101  | TVD-6102  | TVD-6103  | TVD-6104  |
|                      |  |  |  |  |  |
| Sensor               | 1/3" Progressive Scan, CMOS   |   |   |   |   |
| Standard             | HD-TVI  |   |   |   |   |
| Effective Pixels     | 1280(H) x 720(V)  |   | 1920(H) x 1080(V)   |   | 2560(H) x 1944(V)   |
| Synchronization      | Internal  |   |   |   |   |
| Electronic Shutter   | NTSC: 1/30 s to 1/30,000 s; PAL: 1/25 s to 1/50,000 s                               |   |   |   |   |
| Digital S/N Ratio    | 52 dB (AGC Off)   | NTSC: 1/30 s to 1/30,000 s; PAL: 1/25 s to 1/50,000 s                               |   |   |   |
| Lens                 | 3.6mm fixed   | 2.7~13.5mm motorized  | 2.8mm fixed   | 2.7~13.5mm motorized  | 2.7~13.5mm motorized  |
| Day/Night            | True D/N, IR cut filter   |   |   |   |   |
| Wide Dynamic Range   | DWDR  | Color: 0.003 lux @ (f1.2, AGC On); 0 lux with IR On                                 |   |   |   |
| Minimum Illumination | Color: 0.01 lux @ (f1.2, AGC On); B/W: 0.001 lux @ (f1.2, AGC On); 0 lux with IR On |   |   |   |   |
| IR Range             | Up to 20m   | Up to 60m   | Up to 30m   | Up to 60m   | Up to 60m   |
| Video Output         | Dual output: HD-TVI or 960H Composite   |   |   |   |   |
| Voltage Input        | 12 VDC  |   | 12VDC / 24VAC   |   |   |
| Operating Temp       | -30 to 60°C)  | -40 to 60°C   |   |   |   |
| Environmental Rating | IP66  | IP67  |   |   |   |
| Vandal Rating        | IK10  |   |   |   |   |
| Certification        | FCC, CE, UL, RCM, REACH, RoHS, WEEE   |   |   |   |   |

## HD-TVI/Analog Cameras Ordering Information

### HD-TVI BOX CAMERAS

PAL

**TVC-2401** TruVision HD-TVI Box Camera, 1080p, C/CS Lens, True D/N, WDR, 960H Monitor & TVI Dual-output, TVI & Button OSD Control, 12VDC/24VAC, PAL

### HD-TVI BULLET CAMERAS

**TVB-6102** TruVision HD-TVI Analog Bullet Camera, 2MP, 3.6MM Lens, True D/N, WDR, 30m IR HD-TVI Output, Coax OSD Control, 12VDC, IP67

**TVB-6103** TruVision HD-TVI Analog Bullet Camera, 2MP, 2.7-13.5MM Motorized Lens, True D/N, WDR, 80m IR HDTV Output, Coax OSD Control, 12VDC/24AC, IP67

**TVB-6104** TruVision HD-TVI Analog Bullet Camera, 5MP, 3.6MM Lens, True D/N, WDR, 30m IR HD-TVI Output, Coax OSD Control, 12VDC, IP67

**TVB-6105** TruVision HD-TVI Analog Bullet Camera, 5MP, 2.7-13MM Motorized Lens, True D/N, WDR, 80m IR HD-TVI Output, Coax OSD Control, 12VDC/24AC, IP67

### HD-TVI DOME CAMERAS

**TVD-6102** TruVision HD-TVI Analog Dome Camera, 2MP, 2.8MM Lens, True D/N, WDR, 30m IR HD-TVI Output, Coax OSD Control, 12VDC, IP67

**TVD-6103** TruVision HD-TVI Analog Dome Camera, 2MP, 2.7-13.5MM Motorized Lens, True D/N, WDR, 60m IR HDTV Output, Coax OSD Control, 12VDC/24AC, IP67

**TVD-6104** TruVision HD-TVI Analog Dome Camera, 5MP, 2.7-13.5MM Motorized Lens, True D/N, WDR, 60m IR HDTV Output, Coax OSD Control, 12VDC/24AC, IP67

### HD-TVI TURRET CAMERAS

**TVT-6101** TruVision HD-TVI Analog Turret Camera, 5MP, 2.8MM Lens, True D/N, WDR, 30m IR HD-TVI Output, Coax OSD Control, IP67

**TVT-6102** TruVision HD-TVI Analog Turret Camera, 5MP, 2.7-13.5MM Motorized Lens, True D/N, WDR, HD-TVI Output, Coax OSD Control, 12VDC/24AC, IP67

### HD-TVI WEDGE CAMERAS

**TVW-6101** TruVision HD-TVI/Analog Wedge Camera, 1080p, 2.8mm Lens, True D/N, WDR w/TVI, 10m IR, TVI or 960H Selectable Output, TVI Control, 12VDC, IP66, IK8

### HD-TVI FULL-TIME COLOUR CAMERAS

**TVT-2401** TruVision HD-TVI Analog Turret Camera, 3MP (use with 3MP or higher TVI recorders), 2.8mm Lens, True D/N, WDR, 20m IR, Dual-Output 960H Monitor or HD-TVI, Coax OSD Control, 12VDC, IP66, PAL

**TVT-2402** TruVision HD-TVI Analog Turret Camera, 3MP (use with 3MP or higher TVI recorders), 2.8-12mm Motorized Lens, True D/N, WDR, 40m IR, Dual-Output 960H Monitor or HD-TVI, Coax & Button OSD Control, 12VDC/24VAC, IP66, PAL

# TruVision® LED Monitors



## LED Full HD Monitors

### 20" and 22" Class



The LED Full HD range of monitors is the latest advancement in TruVision monitors. Providing superior image quality, engineered for 24/7 operation and designed with slim profile, these monitors are a great fit for today's demanding video surveillance market.

- 1920 x 1080 full HD resolution
- 3D Comb filter for optimal image quality
- High contrast ratio for crisp images
- Supports 16:9 and 4:3 screen formats
- Multiple inputs including HDMI, VGA and BNC in/out

### LED Full HD Monitors Ordering Information

| MONITORS        |   |
|-----------------|---|
| <b>TVM-2212</b> | TruVision LED 22" Class Full HD Monitor, HDMI/VGA     |
| <b>TVM-2002</b> | TruVision LED 20" Class Full HD Monitor, HDMI/VGA/BNC |
| <b>TVM-2202</b> | TruVision LED 22" Class Full HD Monitor, HDMI/VGA/BNC |

### LED Full HD Monitors Comparison Table

|                       | TVM-2212  | TVM-2002  |
|-----------------------|---|---|
|                       |  |  |
| Display               | 21.5" LED Backlit   | 19.53" LED Backlit  |
| Aspect Ratio          | 16:9  |   |
| Viewing Angle (H/V)   | 170°/160°   | 178°/178°   |
| Contrast Ratio        | 1000:1  | 3000:1  |
| Response Time         | 5 ms  | 20 ms   |
| Resolution            | 1920 x 1080   |   |
| Audio Speaker Power   | 2 W x 2   | 1.5 W x 2   |
| Video In/Out (BNC)    | --  | 1 / 1   |
| VGA In (15 Pin D-Sub) | 1   |   |
| HDMI In               | 1   |   |
| PC Stereo In          | 1   |   |
| Remote Control        | No  |   |
| Input Voltage         | 100 to 240VAC   |   |
| Filter Type           | --  | 3D Comb filter, De-interlace  |
| Operating Condition   | 32 to 104°F (0 to 40°C), Humidity 10 to 85% (non-condensing)                        |   |
| VESA Mount            | 100 x 100mm   |   |

# TruVision® Hard Drives and Lenses



## Hard drives

Aritech offers a complete line of internal hard drives designed for 24/7, always on, high-definition surveillance security systems for use in TruVision analog HD-hybrid and NVR recorders.

### Hard Drive Ordering Information

| NON-RAID HDD           |  |
|------------------------|--|
| <b>TVN-20XX-HDD-2T</b> | TruVision Recorder HDD expansion kit, 2TB      |
| <b>TVN-HDD-4TB</b>     | TruVision Recorder HDD expansion kit, 4TB      |
| <b>TVN-HDD-8TB-2</b>   | TruVision Recorder HDD expansion kit, 8TB      |
| RAID HDD (FOR TVN-71)  |  |
| <b>TVN-HDDR-4TB</b>    | TruVision Recorder HDD expansion kit, 4TB RAID |
| <b>TVN-HDDR-8TB-1</b>  | TruVision Recorder HDD expansion kit, 8TB RAID |

NOTE: The Non-Raid hard drives may be used for RAID in TVN22P and TVR46 recorders, but not for RAID in the TVN71 recorder



## Lenses

Aritech offers a complete line of 1/3-inch format lenses. High quality multi-coated glass lens elements provide excellent contrast and color rendition. All lenses feature metal CS mounts.

### Lens Ordering Information

| VARIFOCAL AUTO-IRIS       |   |
|---------------------------|---|
| <b>YV4.3x2.8SA-SA2L</b>   | 3 MP, Full HD, Sensor 1/3", Focal Length 2.8 - 12.0mm, CS - Mount, Auto Iris (DC type) F1.4 - T360    |
| <b>YV3.3X15SR4A-SA2L</b>  | 3 MP, Full HD, Sensor 1/2.7", Focal Length 15.0 - 50.0mm, CS - Mount, Auto Iris (DC type) F1.5 - T360 |
| <b>DV2.2X4.1SR4A-SA2L</b> | 6 MP, Full HD, Sensor 1/1.8", Focal Length 4.1 - 9.0mm, CS - Mount, Auto Iris (DC type) F1.6 - T360   |
| <b>DV10X8SR4A-SA1L 3</b>  | MP, Full HD, Sensor 1/2", Focal Length 8.0 - 80.0mm, C-Mount, Auto Iris (DC type) F1.6 - T360         |
| <b>DV3.4x3.8SA-SA1L</b>   | 3 MP, Full HD, Sensor 1/2", Focal Length 3.8 - 13.0mm, C-Mount, Auto Iris (DC type) F1.4 - T360       |
| <b>TVL-006</b>            | TruVision 12 MPx lens, 10 to 50mm VF, F1.2, CS,IR Sensitive   |

# TruVision® Mounts and Bubbles



## TruVision Camera Mounts and Bubbles

TruVision camera mounts offer a lightweight yet durable metal construction for installation flexibility and long-lasting support.

- Compatible with Aritech dome and wedge cameras
- High-quality metal construction provides added durability
- Rugged design supports both outdoor and indoor applications

### Universal Mounts Ordering Information

#### BACK BOXES AND ADAPTERS

|                                 |  |
|---------------------------------|--|
| <b>TVB-2G-AD</b>                | TruVision Double Gang Box Adapter Plate (for Fixed Lens Bullet or LWB Wall Mount)                        |
| <b>TVB-BB1</b>                  | TruVision Bullet Camera Back Box (for Fixed Lens Bullet)   |
| <b>TVD-BB1</b>                  | TruVision Dome Back Box (use w/Plastic Dome)   |
| <b>TVD-BB3</b>                  | TruVision Dome Back Box (use w/TVD-6/-7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor Domes)        |
| <b>TVD-BB4</b>                  | TruVision Back Box for S6 varifocal dome camera with cable harness                                       |
| <b>TVD-BB3A</b>                 | TruVision Dome Angled Back Box (use w/TVD-6/-7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor Domes) |
| <b>TVD-LWB-AD</b>               | TruVision LWB Bracket Adapter to TVD-SNB-BB Back Box   |
| <b>TVD-SNB-BB</b>               | TruVision TVD-SNB Back Box, 4-directional Conduit, Indoor & Outdoor                                      |
| <b>TVF-BBM</b>                  | TruVision 360° Dome Round Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor            |
| <b>TVF-WBM</b>                  | TruVision 360° Dome Round Angled Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor     |
| <b>TVJ-JBS</b>                  | TruVision Junction Box, Stainless Steel  |
| <b>TVW-2G-AD</b>                | TruVision Double Gang Electrical Box Adapter Plate for Wedge Cameras                                     |
| <b>TVW-AWB-1</b>                | TruVision Outdoor Angled Back Box for Wedge Cameras  |
| <b>TVW-AWB-2</b>                | TruVision Indoor Angled Back Box for Wedge Cameras   |
| <b>WALL MOUNTS AND ADAPTERS</b> |  |
| <b>DR-RWM-AD</b>                | TruVision Adapter for TVD Plastic Dome to DR & TVD-M2-WM Wall Mount Bracket                              |

|                                    |   |
|------------------------------------|---|
| <b>TVB-2G-AD</b>                   | TruVision Double Gang Box Adapter Plate (for Fixed Lens Bullet or LWB Wall Mount)   |
| <b>TVB-WBS</b>                     | TruVision Box Camera Housing (Bullet) Wall Mount for Stainless Steel Housing  |
| <b>TVD-CB2</b>                     | TruVision Dome 2-inch Cup Base  |
| <b>TVD-CB3</b>                     | TruVision Dome 3-inch Cup Base  |
| <b>TVD-CB5A</b>                    | TruVision Integrated Dome 5-inch Cup Base (use w/TruVision IP Outdoor Dome Cameras, TVD-SNB, TVD-PPB)                       |
| <b>TVD-CB6</b>                     | TruVision Dome/Turret (5 in./135mm) Cup Base (use with TVD-SNB, TVD-PPB, TVD-CBW)   |
| <b>TVD-CB7</b>                     | TruVision Dome (6 in./155mm) Cup Base (use with TVD-SNB, TVD-PPB, TVD-CBW)  |
| <b>TVD-LWB-1</b>                   | TruVision Dome Bracket, L-shape, Indoor (use w/TWV Analog/IP Wedge and HD-TVI Fixed Lens Dome Cameras)                      |
| <b>TVD-LWB-2</b>                   | TruVision Dome Bracket, L-shape, Indoor (use w/TVD Analog/HD-TVI VF Domes and IP Motor Lens Outdoor Dome)                   |
| <b>TVD-LWB-AD</b>                  | TruVision LWB Bracket Adapter to TVD-SNB-BB Back Box  |
| <b>TVD-LWB-S</b>                   | TruVision Dome Camera Wall Mount Shield (use w/TVD-LWB-1 or TVD-LWB-2)  |
| <b>TVD-M-CMA</b>                   | TruVision Corner Mount Adapter (use w/TVD-SNB, TVC VF/Motor Lens IP Bullet Cameras and TVD-HD-TVI/Analog VF Bullet Cameras) |
| <b>TVD-M-PMA</b>                   | TruVision Pole Mount Adapter (use w/TVD-SNB, TVC VF/Motor Lens IP Bullet Cameras and TVD-HD-TVI/Analog VF Bullet Cameras)   |
| <b>TVD-M2-WM</b>                   | TruVision Dome Wall Mount (use w/TVD VF Domes)  |
| <b>TVD-SNB</b>                     | TruVision Dome Swan Neck Bracket (use w/TVD-CB5A, TVD-CB3, TVD-CB2, TVW-DVM)  |
| <b>TVD-CBW</b>                     | TruVision Dome Cup Base Wall Mount (use w/TVD-CB2, TVD-CB3, TVD-CB5A, TVD-CB6, TVD-CB7)                                     |
| <b>TVD-WBS</b>                     | TruVision Dome Wall Mount for Stainless Steel Dome  |
| <b>TVF-CBM</b>                     | TruVision 360° Dome Cup Base (use w/TVD-PPB for Pendant Mount or TVD-SNB for Wall Mount)                                    |
| <b>TVW-DVM</b>                     | TruVision Dual View Mount for Wedge (use w/TVD-PPB and TVD-SNB)   |
| <b>PENDANT MOUNTS AND ADAPTERS</b> |   |
| <b>TVD-CB2</b>                     | TruVision Dome 2-inch Cup Base  |
| <b>TVD-CB3</b>                     | TruVision Dome 3-inch Cup Base  |
| <b>TVD-CB8</b>                     | TruVision Cup Base for S7 indoor dome camera  |
| <b>TVD-CB9</b>                     | TruVision Cup Base for S7 outdoor dome camera   |
| <b>TVD-CB5A</b>                    | TruVision Integrated Dome 5-inch Cup Base (use w/TruVision IP Outdoor Dome Cameras, TVD-SNB, TVD-PPB)                       |
| <b>TVD-CB6</b>                     | TruVision Dome/Turret (5 in./135mm) Cup Base (use with TVD-SNB, TVD-PPB, TVD-CBW)   |
| <b>TVD-CB7</b>                     | TruVision Dome (6 in./155mm) Cup Base (use with TVD-SNB, TVD-PPB, TVD-CBW)  |
| <b>TVD-CBM</b>                     | TruVision 360° Dome Cup Base (use w/TVD-PPB for Pendant Mount or TVD-SNB for Wall Mount)                                    |
| <b>TVD-PPB</b>                     | TruVision Dome Pendant Mount Bracket (use w/TVD-CB5A, TVD-CB3, TVD-CB2, TVW-DVM)  |
| <b>TVW-DVM</b>                     | Dual View Mount for Wedge (use w/TVD-PPB and TVD-SNB)   |

## FLUSH MOUNTS

|                  |  |
|------------------|--|
| <b>TVD-M2-FM</b> | TruVision Indoor Flush Mount (use w/TVD IP VF Domes)                     |
| <b>TVD-VFM2</b>  | TruVision Flush Mount for S6 varifocal dome camera without cable harness |
| <b>TVD-VFM3</b>  | TruVision Flush Mount for S6 varifocal dome camera with cable harness    |
| <b>TVD-VFM</b>   | TruVision VF Dome Flush Mount (for Analog and TVI)                       |

## 360° CAMERA ACCESSORIES

|                |  |
|----------------|--|
| <b>TVF-BBM</b> | TruVision 360° Camera Round Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor        |
| <b>TVF-CBM</b> | TruVision 360° Camera Cup Base (use with TVD-PPB for Pendant Mount or TVD-SNB for Wall Mount)          |
| <b>TVF-WBM</b> | TruVision 360° Camera Round Angled Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor |

## PTZ CAMERA ACCESSORIES

|                  |  |
|------------------|--|
| <b>1060050A</b>  | TruVision Pendant Adapter for PTZ, 1 1/4 NPT, Rubber Boot, UTC Gray (use to pendant mount PTZ) |
| <b>GEA-102</b>   | TruVision Wall Mount, Cast Aluminum  |
| <b>GEA-104</b>   | TruVision Parapet Swing-Arm Mount  |
| <b>GEA-105</b>   | TruVision PTZ Corner Mount Adapter   |
| <b>GEA-106</b>   | TruVision PTZ Pole Mount Adapter   |
| <b>TVP-CBB</b>   | TruVision Compact PTZ Compact Box (TVP-5103)   |
| <b>TVP-CCBWM</b> | TruVision Compact Cup Base PTZ Wall Mount (TVP-5103)   |
| <b>TVP-CFM</b>   | TruVision Compact PTZ Flush Mount (TVP-5103)   |
| <b>TVP-CWM</b>   | TruVision Compact PTZ Indoor Wall Mount, Plastic (TVP-5101)                                    |
| <b>TVP-PAS</b>   | TruVision PTZ Pendant Mount for Stainless Steel PTZ  |
| <b>TVP-SAM</b>   | TruVision PTZ Swing Arm Mount  |
| <b>TVP-SAMB</b>  | TruVision PTZ Swing Arm Mount Safety U Bracket   |
| <b>TVP-WBS</b>   | TruVision PTZ Wall Mount, for Stainless Steel PTZ  |
| <b>TVP-WM-CM</b> | TruVision PTZ Dome Corner Mount Adapter (use w/TVP-WMB Wall Mount Bracket)                     |
| <b>TVP-WM-PM</b> | TruVision PTZ Dome Pole Mount Adapter (use w/TVP-WMB Wall Mount Bracket)                       |
| <b>TVP-WMB</b>   | TruVision PTZ Dome Wall Mount Bracket  |



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