

Comprehensive coverage. Unmatched performance.

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

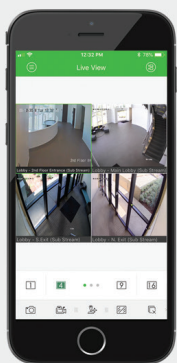
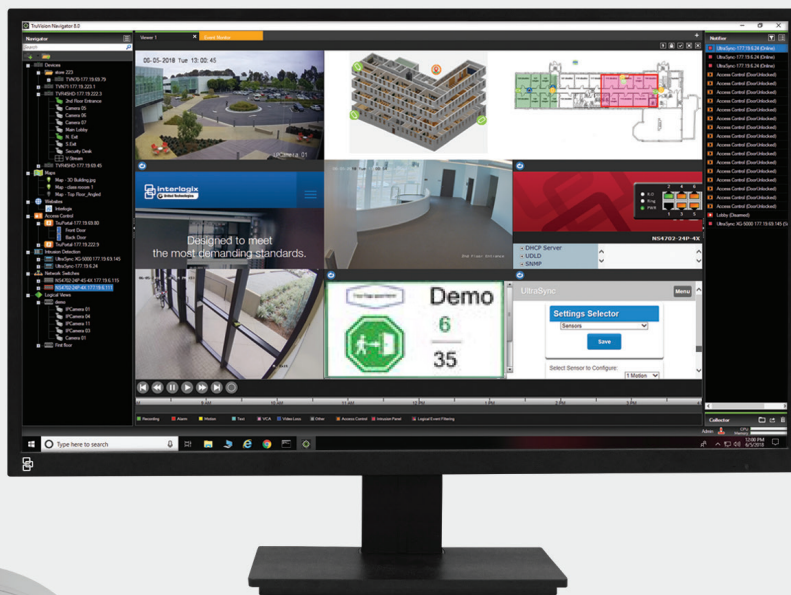


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The next-generation video offering designed by security experts.

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.aritech.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; playback: 8 streams	live: 128 streams; 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 (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/ TVK-800	TVK-600/ TVK-800	TVK-600/ TVK-800	TVK-600/ 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



TruVision® IP Products

Fixed IP cameras Comparison Table

						
		Series 6	Series 7	360° cameras	Multi-imager	People counting
Physical	Form factor	Bullet, dome, turret, wedge	Bullet, dome, box	Fisheye	Large multi-sensor dome	Custom, dual lens
Video	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
Optical	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	•	•	•	•	•
Intelligence	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

I/O	Alarm in/out	Yes, select models	Yes, select models	.	.	.
	Audio in/out	Yes, select models	Yes, select models	.	.	.
Storage	SD card slot	.	.	.	.	.
	NAS compatible	.	.	.	.	.
	Event video storage to FTP	.	.	.	.	.
Environmental	IP rating	IP66/IP67	IP67, outdoor models	IP67, outdoor models	IP67	IP67
	IK rating	IK10, select models	IK10, select models	IK10, outdoor models	IK10	-
Hardware/Software Support	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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 7 additional configurable streams	Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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° 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 Horizontal FoV 112.4° to 41°, Vertical FoV 58° to 23°, Diagonal FoV 137° to 47° 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	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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 7 additional configurable streams	Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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) B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 lux with IR ON	Colour: 0.007 Lux @ (F1.2, AGC ON) B/W: 0.0007 Lux @ (F1.2, AGC ON),	Colour: 0.008 Lux @ (F1.2, AGC ON) 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	
TVC-5712	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
TVC-5713	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
TVC-5714	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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 7 additional configurable streams	Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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) B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 lux with IR ON	Colour: 0.007 Lux @ (F1.2, AGC ON) B/W: 0.0007 Lux @ (F1.2, AGC ON), 0 lux with IR ON	Colour: 0.008 Lux @ (F1.2, AGC ON) B/W: 0.0008 Lux @ (F1.2, AGC ON), 0 lux with IR ON
Lens	2.8 to 12mm motorized 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 Horizontal FoV 112.4° to 41°, Vertical FoV 58° to 23°, Diagonal FoV 137° to 47°	2.8 to 12mm motorized 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	
TVD-5712	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
TVD-5713	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
TVD-5714	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) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 7 additional configurable streams	Main stream: 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) Third stream: 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) + 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° 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° 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	
TVC-5717	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
TVC-5718	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
TVC-5719	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
TVC-5720	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
TVD-5721	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
TVD-5718	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/ TVB-5605H	TVB-5606/ 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); 0.028 lux @ (f2.0, 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	4mm; horizontal FOV: 78°; vertical FOV: 42°; diagonal FOV: 93°	4mm; horizontal FOV: 79°; vertical FOV: 42°; diagonal FOV: 95	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)		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	
TVB-5602	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
TVB-5603	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
TVB-5605/ TVB-5605H	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)
TVB-5606/ TVB-5606H	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/ TVD-5605H	TVD-5606/ 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

TVD-5602	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
TVD-5603	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
TVD-5605/ TVD-5605H	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)
TVD-5606/ TVD-5606H	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 TVT-5605 TVT-5606	TVT-5607	TVT-5608 TVT-5608H	TVT-5610 TVT-5610H	TVT-5611H 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	
TVT-5604	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
TVT-5605	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
TVT-5606	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
TVT-5607	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
TVT-5608	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
TVT-5609	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
TVT-5610	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
TVT-5611	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/ Standard	H.265 / H.264 / MJPEG
Minimum Illumination	Color: 0.01 lux @ (f1.2, AGC On), 0 lux with IR; Color: 0.018 lux @ (f1.6, AGC On); 0 lux with IR
Lens	2.8mm; horizontal FOV: 98°; vertical FOV: 72°; 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	
TVW-5605	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



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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

TVP-5101	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
TVP-5102	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
TVP-5103	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 Sub Stream: 720 x 720"	Main Stream: 2560 x 2560, 3000 x 3000, 4000 x 3000 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) 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	
TVS-5101	TruVision Multi-imager panoramic IP camera, 20MP/4x5MP image sensors, 2.8-12 mm motorized lenses, True D/N, 30m IR, Audio, Alarm I/O, IP67, IK10, Heater, Hi-PoE/12VDC
Accessories	
TVMI-WM	TruVision Multi-imager camera Wall Mount
TVMI-PM	TruVision Multi-imager Pendant Mount bracket, 57 mm / 2.24 in
TVMI-PM2	TruVision Multi Imager Pendant Mount bracket, 200 mm / 7.87 in
TVMI-PM3	TruVision Multi Imager Pendant Mount bracket, 500 mm / 19.7 in
TVMI-PMA	TruVision Multi-imager Pendant Mount extension pipe, 500 mm / 19.68 in

Multi-imager Panoramic IP Camera Specifications

	Indoor/outdoor Multi-imager Panoramic IP Camera 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 Sub stream: 640 x 480 (VGA), 704 x 576 (4CIF) 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>

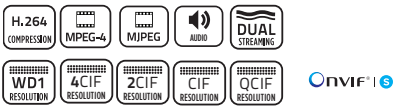
People Counting Cameras Specifications

	Outdoor	
	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

ENCODERS

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

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

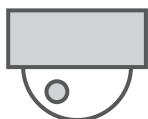
DECODER

TVE-DEC12	TruVision Decoder for 16 Full HD streams, (HDMI, VGA, BNC)
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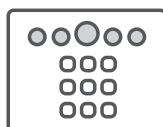
Unified control for maximum security.

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.



High Definition Hybrid Recorder

TVR16

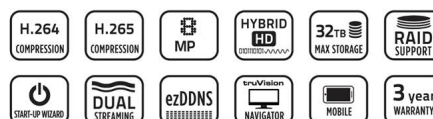


- 4-, 8- or 16-channel real-time full HD recording
- Support for H.264 and H.265 encoding
- Connect standard analog, HD-TVI, HD-CVI, HD-AHD or IP cameras
- HD-TVI over coax technology supports up to 5MP resolution (4ch) and up to 8MP (4k) resolution (8, 16 ch)
- Support for HD-CVI cameras up to 4MP resolution
- 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



High Definition Hybrid Recorder

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



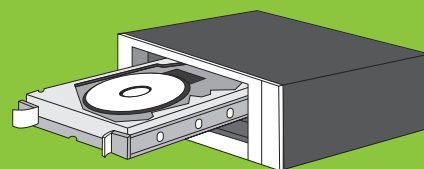
Analog to IP Migration

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 32ch: 260 Mbps in; 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; 16-ch: 16/4	16/4
	Keypad support	TVK-800, TVK-600	TVK-800, TVK-600	TVK-800, TVK-600
	USB slots	2	2	(2) USB 2.0, (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/ TruVision driver V.16.2.0.16857	V.2018SP2 w/ TruVision driver 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

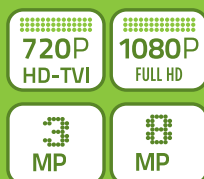


HD-TVI Analogue Cameras



- 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) x1080 (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); 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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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	
TVM-2212	TruVision LED 22" Class Full HD Monitor, HDMI/VGA
TVM-2002	TruVision LED 20" Class Full HD Monitor, HDMI/VGA/BNC
TVM-2202	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	
TVN-20XX-HDD-2T	TruVision Recorder HDD expansion kit, 2TB
TVN-HDD-4TB	TruVision Recorder HDD expansion kit, 4TB
TVN-HDD-8TB-2	TruVision Recorder HDD expansion kit, 8TB
RAID HDD (FOR TVN-71)	
TVN-HDDR-4TB	TruVision Recorder HDD expansion kit, 4TB RAID
TVN-HDDR-8TB-1	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

VARIFOCA AUTO-IRIS	
YV4.3x2.8SA-SA2L	3 MP, Full HD, Sensor 1/3", Focal Length 2.8 - 12.0mm, CS - Mount, Auto Iris (DC type) F1.4 - T360
YV3.3X15SR4A-SA2L	3 MP, Full HD, Sensor 1/2.7", Focal Length 15.0 - 50.0mm, CS - Mount, Auto Iris (DC type) F1.5 - T360
DV2.2X4.1SR4A-SA2L	6 MP, Full HD, Sensor 1/1.8", Focal Length 4.1 - 9.0mm, CS - Mount, Auto Iris (DC type) F1.6 - T360
DV10X8SR4A-SA1L 3	MP, Full HD, Sensor 1/2", Focal Length 8.0 - 80.0mm, C-Mount, Auto Iris (DC type) F1.6 - T360
DV3.4x3.8SA-SA1L	3 MP, Full HD, Sensor 1/2", Focal Length 3.8 - 13.0mm, C-Mount, Auto Iris (DC type) F1.4 - T360
TVL-006	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	
TVB-2G-AD	TruVision Double Gang Box Adapter Plate (for Fixed Lens Bullet or LWB Wall Mount)
TVB-BB1	TruVision Bullet Camera Back Box (for Fixed Lens Bullet)
TVD-BB1	TruVision Dome Back Box (use w/Plastic Dome)
TVD-BB3	TruVision Dome Back Box (use w/TVD-6/-7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor Domes)
TVD-BB4	TruVision Back Box for S6 varifocal dome camera with cable harness
TVD-BB3A	TruVision Dome Angled Back Box (use w/TVD-6/-7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor Domes)
TVD-LWB-AD	TruVision LWB Bracket Adapter to TVD-SNB-BB Back Box
TVD-SNB-BB	TruVision TVD-SNB Back Box, 4-directional Conduit, Indoor & Outdoor
TVF-BBM	TruVision 360° Dome Round Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor
TVF-WBM	TruVision 360° Dome Round Angled Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor
TVJ-JBS	TruVision Junction Box, Stainless Steel
TVW-2G-AD	TruVision Double Gang Electrical Box Adapter Plate for Wedge Cameras
TVW-AWB-1	TruVision Outdoor Angled Back Box for Wedge Cameras
TVW-AWB-2	TruVision Indoor Angled Back Box for Wedge Cameras
WALL MOUNTS AND ADAPTERS	
DR-RWM-AD	TruVision Adapter for TVD Plastic Dome to DR & TVD-M2-WM Wall Mount Bracket

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

FLUSH MOUNTS

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

360° CAMERA ACCESSORIES

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

PTZ CAMERA ACCESSORIES

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



Secure critical
infrastructure with
TruVision® on board.



About Aritech

Aritech provides leading security and life-safety solutions for both commercial and residential applications covering intrusion, video, transmission and access. Offering some of the most-trusted product names in the industry, and backed by ongoing partner services and support, Aritech helps customers secure and protect what matters most.

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