



# Comprehensive coverage. Unmatched performance.

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





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

Developed by Interlogix, a recognized leader in innovative security technology, the TruVision® line brings the benefit of digital security monitoring to 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 VMS 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:

- K-12 schools
- Banks and financial institutions
- Office buildings
- Retail spaces
- Public venues

# TruVision® Software

TruVision software provides advanced video management capabilities within a streamlined, user-friendly interface. Compatible with Interlogix® TruVision brand cameras and recorders, TruVision Navigator is a license-free video management software 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 6

TruVision Navigator 6 represents an ideal commercial Video Management System (VMS) that provides a flexible migration path to IP supporting both TruVision analog and IP products. It's not only easy to install and use, but also offers greater scalability to accommodate future growth.

- Full featured TruVision VMS
- Maps, multiple video viewing tabs and live alarm monitoring
- No licensing or software maintenance agreements
- Scalable architecture supports applications ranging from stand-alone systems up to enterprise (SME) IT environments

### TruVision Navigator 6 Ordering Information

**DOWNLOAD ONLY** [www.interlogix.com/navigator6](http://www.interlogix.com/navigator6)



## TVRMobile App



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

- Real-time video monitoring via TruVision recorders or cameras
- Remote connection via Wi-Fi®, 3G, 4G or LTE network
- No limit to the number of devices that can be added
- Free downloads via iTunes® App Store, Android Market or Windows Store

### TVRMobile App Ordering Information

**DOWNLOAD ONLY** [interlogix.com/video/category/software](http://interlogix.com/video/category/software)

## TruVision Video Tools



### TruVision Device Manager

Easily search and configure TruVision IP devices on a network.



### TruVision Calculator

Calculate storage requirements for TruVision recorders based on camera count, resolution, fps, etc.



### TruVision IP Camera App

Find the right TruVision IP camera using the mobile app.

## 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 10 Series

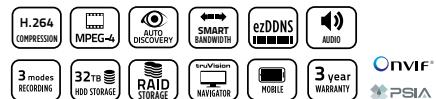


- Supports up to 16 IP cameras (TruVision, Onvif® and PSIA) in real-time (30fps)
- Up to 80Mbps incoming bandwidth
- Built-in 4- or 8-port PoE switch
- Plug and Play configuration
- Start-up wizards, auto discovery tools and ezDDNS service make configuration quick and easy
- HDMI ports for local high definition viewing
- Integration with TruPortal™ access control
- Available mobile apps for remote monitoring



Full Featured

### NVR 21 Series



- Supports up to 32 IP cameras (TruVision, ONVIF and PSIA) in real-time (30fps)
- Up to 200Mbps incoming bandwidth
- Built-in 8- or 16-port PoE Switch (NVR 21S)
- Automatic PoE power budget allocation
- Front panel accessible HDD bays for easy storage expansion
- RAID support
- Hot-spare redundancy
- Network redundancy
- Start-up wizards, auto discovery tools and ezDDNS service make configuration quick and easy
- HDMI ports for local high definition viewing
- Integration with TruPortal, OnGuard® access control
- Available mobile apps for remote monitoring



High Capacity

### NVR 70 Series



- Supports up to 128 IP cameras (TruVision, ONVIF and PSIA) in real-time (30fps)
- Up to 400Mbps incoming bandwidth
- 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
- Integration with TruPortal, OnGuard access control
- Available mobile apps for remote monitoring

## Built for easy operation and reliability



### Plug & Play PoE Switch

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

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

**Network Video Recorders Comparison Table**

	NVR 10C	NVR 10	NVR 21	NVR 21S	NVR 21Plus	NVR 70
Channels, Bandwidth & Resolution	Max. IP channels	4	8/16	8/16	8/16	128
	Total bandwidth available (Mbps) inward	20 Mbps	40/80 Mbps	80/160 Mbps	80/160 Mbps	80/160/200 Mbps
	Average bandwidth per channel (Mbps) inward	5	5	5	5	5
	Bandwidth allocation	Fully flexible				
	Real-time recording	Full HD				
	HD recording per channel	30 fps				
PoE	PoE ports	4	8/8	—	8/16	—
	Total PoE budget	50W	120W	—	120/200W	—
	Average budget per port	12.5W	15W	—	Auto-PoE	—
	Maximum 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	1	2	1	2
	Redundant NIC ports	—	—	—	—	•
	Load balancing	—	—	•	—	•
	ezDDNS	•	•	•	•	•
	Maximum outgoing streams	64	64	64	64	256
Storage	Maximum outgoing bandwidth	40 Mbps	80/80 Mbps	160/160 Mbps	160/160 Mbps	400 Mbps
	Max storage (TB)	2	4/6	8	8/16	32
	Front side accessible HDDs	—	—	•	•	•
	Expandable internal storage	—	—	•	•	•
	Dual stream recording	—	—	•	•	•
	Hot spare backup/recovery	—	—	•	•	•
	HDD redundancy	—	—	•	•	•
	RAID support	—	—	0/1/5/10	0/1/5/10	0/1/5/10
Local Viewing & Controls	NAS and eSATA support	—	—	•	•	•
	Front panel controls	•	•	•	•	—
	HDMI	•	•	•	•	—
	VGA	•	•	•	•	—
	BNC output	—	—	•	•	—
	Keypad support	TVK-800	TVK-800	TVK-800	TVK-800	TVK-800
General Features	USB slots	2	2	3	3	3
	Text insertion	—	—	•	•	•
	CD/DVD burner	via USB				
	Reverse playback	•	•	•	•	•
	Alarm I/O	4/1	4/1	16/4	16/4	16/4
	Rack mountable	—	•	•	•	•
Software Support	Redundant Power Supplies	—	—	—	—	•
	TruVision® Navigator	•	•	•	•	•
	TVRmobile	•	•	•	•	•
	OnGuard®	•	•	•	•	•
	TruPortal™	•	•	•	•	Pending

# TruVision® IP Products

## Network Video Recorders Ordering Information

NVR 10	
<b>TVN-1004CS-1T</b>	TruVision NVR 10 Compact, 4-Channels/PoE Switch, 20Mbps, 1TB Storage
<b>TVN-1004CS-2T</b>	TruVision NVR 10 Compact, 4-Channels/PoE Switch, 20Mbps, 2TB Storage
<b>TVN-1008S-2T</b>	TruVision NVR 10, 8-Channels/PoE Switch, 40Mbps, 2TB Storage
<b>TVN-1008S-4T</b>	TruVision NVR 10, 8-Channels/PoE Switch, 40Mbps, 4TB Storage
<b>TVN-1016S-3T</b>	TruVision NVR 10, 16-Channels/8-port PoE Switch, 80Mbps, 3TB Storage
<b>TVN-1016S-6T</b>	TruVision NVR 10, 16-Channels/8-port PoE Switch, 80Mbps, 6TB Storage

NVR 21	
<b>TVN-2108-2T</b>	TruVision NVR 21, 8-Channels, 80Mbps, 2TB Storage
<b>TVN-2108-4T</b>	TruVision NVR 21, 8-Channels, 80Mbps, 4TB Storage
<b>TVN-2108-8T</b>	TruVision NVR 21, 8-Channels, 80Mbps, 8TB Storage
<b>TVN-2116-2T</b>	TruVision NVR 21, 16-Channels, 160Mbps, 2TB Storage
<b>TVN-2116-4T</b>	TruVision NVR 21, 16-Channels, 160Mbps, 4TB Storage
<b>TVN-2116-8T</b>	TruVision NVR 21, 16-Channels, 160Mbps, 8TB Storage

NVR 21S	
<b>TVN-2108S-2T</b>	TruVision NVR 21S, 8-Channels/PoE Switch, 80Mbps, 2TB Storage
<b>TVN-2108S-4T</b>	TruVision NVR 21S, 8-Channels/PoE Switch, 80Mbps, 4TB Storage
<b>TVN-2108S-8T</b>	TruVision NVR 21S, 8-Channels/PoE Switch, 80Mbps, 8TB Storage
<b>TVN-2116S-2T</b>	TruVision NVR 21S, 16-Channels/PoE Switch, 160Mbps, 2TB Storage
<b>TVN-2116S-4T</b>	TruVision NVR 21S, 16-Channels/PoE Switch, 160Mbps, 4TB Storage
<b>TVN-2116S-8T</b>	TruVision NVR 21S, 16-Channels/PoE Switch, 160Mbps, 8TB Storage
<b>TVN-2116S-16T</b>	TruVision NVR 21S, 16-Channels/PoE Switch, 160Mbps, 16TB Storage

NVR 21P	
<b>TVN-2108P-4T</b>	TruVision NVR 21Plus, 8-Channels, 80Mbps, 4TB Storage
<b>TVN-2108P-8T</b>	TruVision NVR 21Plus, 8-Channels, 80Mbps, 8TB Storage
<b>TVN-2116P-12T</b>	TruVision NVR 21Plus, 16-Channels, 160Mbps, 12TB Storage
<b>TVN-2116P-16T</b>	TruVision NVR 21Plus, 16-Channels, 160Mbps, 16TB Storage
<b>TVN-2116P-4T</b>	TruVision NVR 21Plus, 16-Channels, 160Mbps, 4TB Storage
<b>TVN-2116P-8T</b>	TruVision NVR 21Plus, 16-Channels, 160Mbps, 8TB Storage
<b>TVN-2132P-12T</b>	TruVision NVR 21Plus, 32-Channels, 200Mbps, 12TB Storage
<b>TVN-2132P-16T</b>	TruVision NVR 21Plus, 32-Channels, 200Mbps, 16TB Storage
<b>TVN-2132P-4T</b>	TruVision NVR 21Plus, 32-Channels, 200Mbps, 4TB Storage
<b>TVN-2132P-8T</b>	TruVision NVR 21Plus, 32-Channels, 200Mbps, 8TB Storage
<b>TVN-2132P-24T</b>	TruVision NVR 21Plus, 32-Channels, 200Mbps, 24TB Storage
<b>TVN-2132P-32T</b>	TruVision NVR 21Plus, 32-Channels, 200Mbps, 32TB Storage

NVR 70	
<b>TVN-7001-16T</b>	TruVision NVR 70, 128 Channels, 3U, 16TB
<b>TVN-7001-32T</b>	TruVision NVR 70, 128 Channels, 3U, 32TB
<b>TVN-7001-48T</b>	TruVision NVR 70, 128 Channels, 3U, 48TB
<b>TVN-7001-64T</b>	TruVision NVR 70, 128 Channels, 3U, 64TB
<b>TVN-7001-96T</b>	TruVision NVR 70, 128 Channels, 3U, 96TB
<b>TVN-7001R-16T</b>	TruVision NVR 70, RAID, 128 Channels, 3U, 16TB
<b>TVN-7001R-32T</b>	TruVision NVR 70, RAID, 128 Channels, 3U, 32TB
<b>TVN-7001R-48T</b>	TruVision NVR 70, RAID, 128 Channels, 3U, 48TB
<b>TVN-7001R-64T</b>	TruVision NVR 70, RAID, 128 Channels, 3U, 64TB
<b>TVN-7001-FAN</b>	TruVision NVR 70, Spare Part, Fan
<b>TVN-7001-PS</b>	TruVision NVR 70, Spare Part, Power Supply

## 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, integrated SFP fiber ports and browser-based web services.

[interlogix.com/transmission](http://interlogix.com/transmission)



# IP Cameras

TruVision® IP cameras deliver superior image quality and perform seamlessly with a variety of video management software platforms and recorders. In addition, there are several form-factors available to meet the needs of any video solution.

## Intelligent IP Open Standards Cameras



### 1.3MPx and 3MPx Intelligent IP Bullet Cameras



- Motorized varifocal lens technology provides remote autofocus
- Long zoom and IR range
- Up to 120dB of Wide Dynamic Range (WDR) performance for contrasting lighting environments
- Intelligence features including face detection, cross line and intrusion detection
- Integrated motion detection and privacy masking
- 3-year warranty

### 1.3MPx and 3MPx Intelligent IP Dome Cameras



- Select models feature real-time video streaming up to 1080p resolution to capture every detail
- Up to 120dB of Wide Dynamic Range (WDR) performance for contrasting lighting environments
- Alarm inputs and outputs provide easy notification and control of events
- Intelligence features including face detection, cross line and intrusion detection
- Edge recording supports up to 64GB Micro SD/SDXC card for video playback
- 3-year warranty

### 1.3MPx and 3Mx Intelligent IP Box Cameras



- Select models feature real-time video streaming up to 1080p resolution for exceptionally detailed image capture
- Auto back focus for easy installation
- True day/night
- Browser-supported mono and bi-directional audio to expand IP stream to include audio
- Intelligence features including face detection, cross line and intrusion detection
- 3-year warranty



## Designed for flexible security solutions

TruVision cameras are engineered to meet Onvif®/PSIA open standards allowing seamless interoperability with a variety of video management systems and recorders.

# TruVision® IP Products

## Intelligent IP Bullet Cameras Comparison Table

	Varifocal (Motorized) Lens		
	1.3MPx TVB-3201	3MPx TVB-3202	3MPx TVB-3203
			
Sensor	1/3" Progressive Scan, CMOS		
Resolution	1280(H) x 960(V) @ 30fps		Max. 2048(H) x 1536(V) @ 20fps
Multiple Streaming	Triple		
Day/Night	True D/N		
Wide Dynamic Range	WDR (120 dB)		
Digital S/N Ratio	50 dB (AGC off)		
IP Compression/Standard	H.264 / MPEG4 / MJPEG		
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	Color: 0.1 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	
Lens	2.8~12mm (motorized)		
IR Range	98 ft. (30m)		164 ft. (50m)
Local Storage	Micro SD / SDXC slot, up to 64GB		
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Face Detection, Cross Line, Intrusion Detection, De-focus Detection, Scene Change Detection		
I/O	1 input / 1 output		
Audio	--		
Standard & Integration	ONVIF (Profile S), PSIA, CGI		
Voltage Input	12VDC / PoE (IEEE 802.3af)		
Operating Temp	-40°F ~ 140°F (-40°C ~60°C), with heater on		
Environmental Rating	IP66		
Vandal Rating	--		
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE		

## Intelligent IP Dome Cameras Comparison Table

	Varifocal		Varifocal (Motorized)							
	1.3MPx TVD-3201	3MPx TVD-3202	1.3MPx TVD-3203	3MPx TVD-3204	3MPx TVD-3205					
										
Sensor	1/3" Progressive Scan, CMOS									
Resolution	1280(H) x 960(V) @ 30 fps	Max. 2048(H) x 1536(V) @ 20fps	1280(H) x 960(V) @ 30 fps	Max. 2048(H) x 1536(V) @ 20fps						
Multiple Streaming	Triple									
Day/Night	True D/N									
Wide Dynamic Range	WDR (120 dB)									
Digital S/N Ratio	50 dB (AGC off)									
IP Compression/Standard	H.264 / MPEG4 / MJPEG									
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC ON); B/W: 0 lux with IR On	Color: 0.1 lux @ f1.2 (AGC ON); B/W: 0 lux with IR On	Color: 0.01 lux @ f1.2 (AGC ON); B/W: 0 lux with IR On	Color: 0.1 lux @ f1.2 (AGC ON); B/W: 0 lux with IR On						
Lens	2.8~12mm		2.8~12mm (motorized)		8~32mm (motorized)					
Video Output	1 Vp-p composite output (75 ohm/BNC)		Internal BNC port for installation only							
IR Range	98 ft. (30m)			164 ft. (50m)						
Local Storage	Micro SD / SDXC slot, up to 64GB									
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Face Detection, Cross Line, Intrusion Detection, De-focus Detection, Scene Change Detection									
I/O	1 input / 1 output		2 input / 2 output							
Audio	--									
Standard & Integration	ONVIF (Profile S), PSIA, CGI									
Voltage Input	12VDC / PoE (IEEE 802.3af)		24VAC / PoE (IEEE 802.3af)							
Operating Temp	-22°F~140°F (-30°C~60°C)		-40°F~140°F(-40°C~60°C), with heater on							
Environmental Rating	IP66									
Vandal Rating	IK10									
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE									

## 1.3MPx and 3MPx Intelligent IP Box Cameras Comparison Table

	IP Box Camera with Audio	
	1.3MPx TVC-3201	3MPx TVC-3202
Sensor		
Resolution	1280(H) x 960(V) @ 30fps	Max. 2048(H) x 1536(V) @ 20fps
Multiple Streaming	Triple	
Day/Night	True D/N	
Wide Dynamic Range	WDR (120 dB)	
Digital S/N Ratio	50 dB (AGC Off)	
IP Compression/Standard	H.264 / MPEG4 / MJPEG	
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0.001 lux @ f1.2 (AGC On)	Color: 0.1 lux @ f1.2 (AGC On); B/W: 0.01 lux @ f1.2 (AGC On)
Lens	C/CS (with auto back focus)	
Video Output	1 Vp-p composite output (75 ohm/BNC)	
Local Storage	Micro SD / SDXC slot, up to 64GB	
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Face Detection, Audio Exception Detection, Cross Line, Intrusion Detection, De-focus Detection, Scene Change Detection	
I/O	1 input / 1 output	
Audio	Input: 1 ch. 3.5mm audio interface (2.0-2.4 Vp-p, 1K ohm), 1 built-in microphone Output: 1 ch. 3.5mm audio interface (Line level, 600 ohm)	
Standard & Integration	ONVIF (Profile S), PSIA, CGI	
Voltage Input	12VDC / 24VAC / PoE (IEEE 802.3af)	
Operating Temp	-22°F~140°F (-30°C~60°C)	
Environmental Rating	Indoor	
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE	

## Intelligent IP Cameras Ordering Information

1.3MPX AND 3MPX INTELLIGENT IP BULLET CAMERAS	
NTSC	
<b>TVB-3201</b>	TruVision® IP Bullet Camera, 1.3MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 30m IR, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66, NTSC
<b>TVB-3202</b>	TruVision IP Bullet Camera, 3MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 30m IR, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66, NTSC
<b>TVB-3203</b>	TruVision IP Bullet Camera, 3MPx, 8~32mm Motorized Lens, WDR, True D/N, 50m IR, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66, NTSC
PAL	
<b>TVB-1201</b>	TruVision IP Bullet Camera, 1.3MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 30m IR, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66, PAL
<b>TVB-1202</b>	TruVision IP Bullet Camera, 3MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 30m IR, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66, PAL
<b>TVB-1203</b>	TruVision IP Bullet Camera, 3MPx, 8~32mm Motorized Lens, WDR, True D/N, 50m IR, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66, PAL
1.3MPX AND 3MPX INTELLIGENT IP DOME CAMERAS	
NTSC	
<b>TVB-3201</b>	TruVision IP Vandal Dome Camera, 1.3MPx, 2.8~2mm VF Lens, WDR, True D/N, 30m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, NTSC
<b>TVB-3202</b>	TruVision IP Vandal Dome Camera, 3MPx, 2.8~2mm VF Lens, WDR, True D/N, 30m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, NTSC
<b>TVB-3203</b>	TruVision IP Motorized Lens Dome Camera, 1.3MPx, 2.8~2mm Motorized Lens, WDR, True D/N, 30m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, NTSC
<b>TVB-3204</b>	TruVision IP Motorized Lens Dome Camera, 3MPx, 2.8~32mm Motorized Lens, WDR, True D/N, 50m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, NTSC
1.3MPX AND 3MPX INTELLIGENT IP BOX CAMERAS	
NTSC	
<b>TVC-3201</b>	TruVision® IP Box Camera, 1.3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, NTSC
<b>TVC-3202</b>	TruVision IP Box Camera, 3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, NTSC
PAL	
<b>TVC-1201</b>	TruVision IP Box Camera, 1.3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, PAL
<b>TVC-1202</b>	TruVision IP Box Camera, 3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, PAL

<b>TVD-3205</b>	TruVision IP Motorized Lens Dome Camera, 3MPx, 8~32mm Motorized Lens, WDR, True D/N, 50m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, NTSC
PAL	
<b>TVD-1201</b>	TruVision IP Vandal Dome Camera, 1.3MPx, 2.8~2mm VF Lens, WDR, True D/N, 30m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, PAL
<b>TVD-1202</b>	TruVision IP Vandal Dome Camera, 3MPx, 2.8~2mm VF Lens, WDR, True D/N, 30m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, PAL
<b>TVD-1203</b>	TruVision IP Motorized Lens Dome Camera, 1.3MPx, 2.8~2mm Motorized Lens, WDR, True D/N, 30m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, PAL
<b>TVD-1204</b>	TruVision IP Motorized Lens Dome Camera, 3MPx, 2.8~2mm Motorized Lens, WDR, True D/N, 30m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, PAL
<b>TVD-1205</b>	TruVision IP Motorized Lens Dome Camera, 3MPx, 8~32mm Motorized Lens, WDR, True D/N, 50m IR, Audio, Alarm, SD/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC, IP66, IK10, PAL
1.3MPX AND 3MPX INTELLIGENT IP BULLET CAMERAS	
NTSC	
<b>TVC-3201</b>	TruVision® IP Box Camera, 1.3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, NTSC
<b>TVC-3202</b>	TruVision IP Box Camera, 3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, NTSC
PAL	
<b>TVC-1201</b>	TruVision IP Box Camera, 1.3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, PAL
<b>TVC-1202</b>	TruVision IP Box Camera, 3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, PAL

# TruVision® IP Products

## IP Open Standards Cameras



### IP Open Standards Bullet Cameras



- True day/night functionality and infrared illuminators capture detailed images in challenging lighting scenarios
- Resolutions ranging from 1.3MPx to 3MPx can support almost any surveillance need
- IP66 weather-resistant enclosures offer added durability for outdoor applications
- Intelligence features including cross line and intrusion detection
- 3-year warranty



### IP Open Standards Mini-Dome Cameras



- Resolutions ranging from 1.3MPx and 3MPx can support almost any surveillance need
- Integrated motion detection and privacy masking offer added security and convenience
- True day/night functionality and infrared illuminators capture detailed images in challenging lighting scenarios
- Intelligence features including cross line and intrusion detection
- 3-year warranty



### IP Open Standards IR Wedge Cameras



- Compact design provides discreet video surveillance
- Durable, IP66 vandal-resistant housings provide an added layer of protection
- 1.3MPx and 3MPx resolution options deliver sharp image quality for a variety of indoor and outdoor applications
- Intelligence features including cross line and intrusion detection
- 3-year warranty

### IP Open Standards Outdoor Bullet Cameras Comparison Table

	Fixed Lens			Varifocal Lens			
	1.3MPx		3MPx	1.3MPx	3MPx		
	TVB-3101	TVB-3103	TVB-3102	TVB-3104	TVB-3105		
							
Sensor	1/3" Progressive Scan, CMOS						
Resolution	1280(H) x 960(V) @ 30 fps		Max. 2048(H) x 1536(V) @ 20 fps	1280(H) x 960(V) @ 30 fps	Max. 2048(H) x 1536(V) @ 20 fps		
Multiple Streaming	Dual						
Day/Night	True D/N						
Wide Dynamic Range	DWDR (72 dB)						
Digital S/N Ratio	50 dB (AGC Off)						
IP Compression/Standard	H.264 / MJPEG						
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0 lux with IR On		Color: 0.07 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	Color: 0.07 lux @ f1.2 (AGC On); B/W: 0 lux with IR On		
Lens	6mm @ f2.0	4mm @ f2.0	6mm @ f2.0	2.8~12mm @ f1.4 auto iris			
IR Range	82 ft. (25m)			98 ft. (30m)			
Local Storage	--			Micro SD / SDXC slot, up to 64GB			
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Cross Line, Intrusion Detection						
I/O	--			1 input / 1 output			
Audio	--			Audio IN/GND for ext. audio input; supports mono mic or line level input; Audio Out/GND for ext. audio connection			
Standard & Integration	ONVIF (Profile S), PSIA, CGI						
Voltage Input	12VDC / PoE (IEEE 802.3af)						
Operating Temp	-22°F~140°F (-30°C~60°C)						
Environmental Rating	IP66						
Vandal Rating	--						
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE						

### IP Open Standards Outdoor IR Wedge Cameras Comparison Table

	Fixed Lens	
	1.3MPx	3MPx
	TVW-3101	TVW-3102
		
Sensor	1/3" Progressive Scan, CMOS	
Resolution	1280(H) x 960(V) @ 30fps	Max. 2048(H) x 1536(V) @ 20fps
Multiple Streaming	Dual	
Day/Night	True D/N	
Wide Dynamic Range	DWDR (72 dB)	
Digital S/N Ratio	50 dB (AGC Off)	
IP Compression/Standard	H.264 / MJPEG	
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	Color: 0.07 lux @ f1.2 (AGC On); B/W: 0 lux with IR On
Lens	2.8mm @ f2.0	
IR Range	33 ft. (10m)	
Local Storage	Micro SD / SDXC slot, up to 64GB	
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Cross Line, Intrusion Detection	
I/O	--	
Audio	--	
Standard & Integration	ONVIF (Profile S), PSIA, CGI	
Voltage Input	12VDC / PoE (IEEE 802.3af)	
Operating Temp	-22°F~140°F (-30°C~60°C)	
Environmental Rating	IP66	
Vandal Rating	IK8	
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE	

# TruVision® IP Products

## IP Open Standards Indoor/Outdoor Mini Dome Cameras Comparison Table

	Fixed Lens		Varifocal Lens			
	1.3MPx	3MPx	1.3MPx	3MPx		
	TVD-3105	TVD-3106	TVD-3103	TVD-3104		
Sensor	1/3" Progressive Scan, CMOS					
Resolution	1280(H) x 960(V) @ 30 fps	Max. 2048(H) x 1536(V) @ 20 fps	1280(H) x 960(V) @ 30 fps	Max. 2048(H) x 1536(V) @ 20 fps		
Multiple Streaming	Dual					
Day/Night	True D/N					
Wide Dynamic Range	DWDR					
Digital S/N Ratio	50 dB (AGC Off)					
IP Compression/Standard	H.264 / MJPEG					
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	Color: 0.07 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0 lux with IR On	Color: 0.07 lux @ f1.2 (AGC On); B/W: 0 lux with IR On		
Lens	2.8 mm @ f2.0		2.8~12 mm @ f1.4			
IR Range	33 ft. (10m)		49 ft. (15m)			
Local Storage	--		Micro SD / SDXC slot, up to 64GB			
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Cross Line, Intrusion Detection					
I/O	1 input / 1 output					
Audio	--		Audio IN/GND for ext. audio input; supports mono mic or line level input; Audio Out/GND for ext. audio connection			
Standard & Integration	ONVIF (Profile S), PSIA, CGI					
Voltage Input	12VDC / PoE (IEEE 802.3af)					
Operating Temp	-22°F~140°F (-30°C~60°C)					
Environmental Rating	IP66					
Vandal Rating	--		IK10			
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE					

## IP Open Standards Camera Ordering Information

IP OPEN STANDARDS OUTDOOR BULLET CAMERAS	
NTSC	
<b>TVB-3101</b>	TruVision® 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Bullet, True D/N, DWDR, 6mm Fixed Lens, 25m IR, ONVIF, PoE/12VDC, IP66, NTSC
<b>TVB-3102</b>	TruVision® 3MPx Open Standards, Progressive Scan CMOS, Outdoor Bullet, True D/N, DWDR, 6mm Fixed Lens, 25m IR, ONVIF, PoE/12VDC, IP66, NTSC
<b>TVB-3103</b>	TruVision® 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Bullet, True D/N, DWDR, 4mm Fixed Lens, 25m IR, ONVIF, PoE/12VDC, IP66, NTSC
<b>TVB-3104</b>	TruVision® 1.3MPx Open Standards, Outdoor Bullet, True D/N, DWDR, 2.8~12mm VF Lens, 30m IR, Audio, Micro SD/SDXC Slot, PoE/12VDC, IP66, NTSC
<b>TVB-3105</b>	TruVision® 3MPx Open Standards, Outdoor Bullet, True D/N, DWDR, 2.8~12mm VF Lens, 30m IR, Audio, Micro SD/SDXC Slot, PoE/12VDC, IP66, NTSC
PAL	
<b>TVB-1101</b>	TruVision® 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Bullet, True D/N, DWDR, 6mm Fixed Lens, 25m IR, ONVIF, PoE/12VDC, IP66, PAL
<b>TVB-1102</b>	TruVision® 3MPx Open Standards, Progressive Scan CMOS, Outdoor Bullet, True D/N, DWDR, 6mm Fixed Lens, 25m IR, ONVIF, PoE/12VDC, IP66, PAL
<b>TVB-1103</b>	TruVision® 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Bullet, True D/N, DWDR, 4mm Fixed Lens, 25m IR, ONVIF, PoE/12VDC, IP66, PAL
<b>TVB-1104</b>	TruVision® 1.3MPx Open Standards, Outdoor Bullet, True D/N, DWDR, 2.8~12mm VF Lens, 30m IR, Audio, Micro SD/SDXC Slot, PoE/12VDC, IP66, PAL
<b>TVB-1105</b>	TruVision® 3MPx Open Standards, Outdoor Bullet, True D/N, DWDR, 2.8~12mm VF Lens, 30m IR, Audio, Micro SD/SDXC Slot, PoE/12VDC, IP66, PAL
IP OPEN STANDARDS INDOOR/OUTDOOR MINI DOME CAMERAS	
NTSC	
<b>TVD-3103</b>	TruVision 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Vandal Dome, True D/N, DWDR, 15m IR, 2.8~12mm VF Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, NTSC

<b>TVD-3104</b>	TruVision 3MPx Open Standards, Progressive Scan CMOS, Outdoor Vandal Dome, True D/N, DWDR, 15m IR, 2.8~12mm VF Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, NTSC
<b>TVD-3105</b>	TruVision 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Mini Dome, True D/N, DWDR, 2.8mm Fixed Lens, 10m IR, ONVIF, PoE/12VDC, BNC, IP66, NTSC
<b>TVD-3106</b>	TruVision 3MPx Open Standards, Progressive Scan CMOS, Outdoor Mini Dome, True D/N, DWDR, 2.8mm Fixed Lens, 10m IR, ONVIF, PoE/12VDC, BNC, IP66, NTSC
PAL	
<b>TVD-1103</b>	TruVision 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Vandal Dome, True D/N, DWDR, 15m IR, 2.8~12mm VF Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, PAL
<b>TVD-1104</b>	TruVision 3MPx Open Standards, Progressive Scan CMOS, Outdoor Vandal Dome, True D/N, DWDR, 15m IR, 2.8~12mm VF Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, PAL
<b>TVD-1105</b>	TruVision 1.3MPx Open Standards, Progressive Scan CMOS, Outdoor Mini Dome, True D/N, DWDR, 2.8mm Fixed Lens, 10m IR, ONVIF, PoE/12VDC, BNC, IP66, PAL
<b>TVD-1106</b>	TruVision 3MPx Open Standards, Progressive Scan CMOS, Outdoor Mini Dome, True D/N, DWDR, 2.8mm Fixed Lens, 10m IR, ONVIF, PoE/12VDC, BNC, IP66, PAL
IP OPEN STANDARDS OUTDOOR IR WEDGE CAMERAS	
NTSC	
<b>TVW-3101</b>	TruVision 1.3MPx Open Standards, Progressive Scan CMOS, Wedge IP Camera, True D/N, DWDR, 10m IR, 2.8mm Fixed Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, NTSC
<b>TVW-3102</b>	TruVision 3MPx Open Standards, Progressive Scan CMOS, Wedge IP Camera, True D/N, DWDR, 10m IR, 2.8mm Fixed Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, NTSC
PAL	
<b>TVW-1101</b>	TruVision 1.3MPx Open Standards, Progressive Scan CMOS, Wedge IP Camera, True D/N, DWDR, 10m IR, 2.8mm Fixed Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, PAL
<b>TVW-1102</b>	TruVision 3MPx Open Standards, Progressive Scan CMOS, Wedge IP Camera, True D/N, DWDR, 10m IR, 2.8mm Fixed Lens, Micro SD/SDXC Slot, ONVIF, PoE/12VDC, IP66, PAL

## IP Megapixel PTZ Cameras



## IP Megapixel PTZ Dome Cameras



ONVIF<sup>®</sup>  
PSIA

- Progressive-scan 1.3 and 2MPx 20X optical zoom offers clear images at both short- and long-range distances
- Digital wide dynamic range functionality enables viewing in bright and dark areas simultaneously
- User-friendly design installs quickly and easily, right out of the box
- 3-year warranty

### 20X Optical/16X Digital IP PTZ Cameras Comparison Table

	Outdoor		Indoor			
	Wall/Pendant Mount		Surface Mount		Flush Mount	
	1.3MPx	2MPx	1.3MPx	2MPx	1.3MPx	2MPx
	TVP-3101	TVP-3104	TVP-3102	TVP-3105	TVP-3103	TVP-3106
Sensor	1/3" Progressive Scan, CMOS					
Resolution	1280(H) x 960(V) @ 30fps	1920(H) x 1080(V) @ 30fps	1280(H) x 960(V) @ 30fps	1920(H) x 1080(V) @ 30fps	1280(H) x 960(V) @ 30fps	1920(H) x 1080(V) @ 30fps
Multiple Streaming	Triple					
Day/Night	True D/N					
Wide Dynamic Range	DWDR					
Digital Noise Reduction	3D					
Digital S/N Ratio	50 dB					
Electronic Shutter	1/30 - 1/10,000 s					
IP Compression/Standard	H.264 / MPEG4 / MJPEG					
Minimum Illumination	Color: 0.05 lux @ f1.4 (AGC On); B/W: 0.005 lux @ f1.4 (AGC On)	Color: 0.05 lux @ f1.6 (AGC On); B/W: 0.005 lux @ f1.6 (AGC On)	Color: 0.05 lux @ f1.4 (AGC On); B/W: 0.005 lux @ f1.4 (AGC On)	Color: 0.05 lux @ f1.6 (AGC On); B/W: 0.005 lux @ f1.6 (AGC On)	Color: 0.05 lux @ f1.4 (AGC On); B/W: 0.005 lux @ f1.4 (AGC On)	Color: 0.05 lux @ f1.6 (AGC On); B/W: 0.005 lux @ f1.6 (AGC On)
Lens	4.3~86mm @ f1.4~f2.6	4.7~94mm @ f1.6~f3.5	4.3~86mm @ f1.4~f2.6	4.7~94mm @ f1.6~f3.5	4.3~86mm @ f1.4~f2.6	4.7~94mm @ f1.6~f3.5
Zoom Range	20X Optical / 16X Digital					
Pan Range and Speed	360° Endless, Manual Speed 0.1°-300° per sec, Preset Speed 540° per sec					
Tilt Range and Speed	-5° to 90° (Auto Flip), Manual Speed 0.1°-240° per sec, Preset Speed 400° per sec					
Video Output	1 Vp-p composite output (75 ohm/BNC)					
Presets	256					
Intelligence	Auto-tracking, Region of Interest, Electronic Image Stabilization, Defog, Audio Exception Detection, Motion Detection					
Privacy Mask	24 Zones					
I/O	7 inputs / 2 outputs					
Audio	Bi-directional					
Standard & Integration	ONVIF (Profile S), PSIA, CGI					
Voltage Input	24VAC/PoE+ (IEEE 802.3at)					
Operating Temp	PoE+: -22°F~149°F (-30°C~65°C); 24VAC: -40°F~149°F (-40°C~65°C)		-14°F~122°F (-25°C~50°C)			
Environmental Rating	IP66		IP54			
Vandal Rating	IK10		--			
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE					

# TruVision® IP Products

## IP Megapixel PTZ Cameras Ordering Information

IP MEGAPIXEL PTZ CAMERAS	
NTSC	
<b>TVP-3101</b>	TruVision 1.3MPx, NTSC, Pan/Tilt/Zoom Dome Pendant Outdoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-3102</b>	TruVision 1.3MPx, NTSC, Pan/Tilt/Zoom Dome Surface Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-3103</b>	TruVision 1.3MPx, NTSC, Pan/Tilt/Zoom Dome Flush Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-3104</b>	TruVision 2MPx, NTSC, Pan/Tilt/Zoom Dome Pendant Outdoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-3105</b>	TruVision 2MPx, NTSC, Pan/Tilt/Zoom Dome Surface Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-3106</b>	TruVision 2MPx, NTSC, Pan/Tilt/Zoom Dome Flush Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
PAL	
<b>TVP-1101</b>	TruVision 1.3MPx, PAL, Pan/Tilt/Zoom Dome Pendant Outdoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-1102</b>	TruVision 1.3MPx, PAL, Pan/Tilt/Zoom Dome Surface Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-1103</b>	TruVision 1.3MPx, PAL, Pan/Tilt/Zoom Dome Flush Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-1104</b>	TruVision 2MPx, PAL, Pan/Tilt/Zoom Dome Pendant Outdoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-1105</b>	TruVision 2MPx, PAL, Pan/Tilt/Zoom Dome Surface Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC
<b>TVP-1106</b>	TruVision 2MPx, PAL, Pan/Tilt/Zoom Dome Flush Mount Indoor, CMOS, True D/N, DWDR, Motorized IR Cut Filter, H.264, ONVIF/PSIA, 20X Optical Zoom, SD Card Slot, PoE+/24VAC



Secure critical infrastructure with TruVision on board.

## Specialty IP Open Standards Cameras



360° Panoramic

### 360° Indoor/Outdoor Dome Cameras



- Up to 10m (33 ft.) IR range
- 2-way audio, built-in mic and speaker
- 360° view angle
- Multiple ePTZ streams with preset and patrol functions. With multiple streams, each individual stream consumes a separate channel on TruVision® NVRs
- 3-year warranty

### 360° Indoor/Outdoor Dome Cameras Comparison Table

	Indoor		Outdoor	
	3MPx	6MPx	3MPx	6MPx
	TVF-3101	TVF-3103	TVF-3102	TVF-3104
Sensor	1/3" Progressive Scan, CMOS	1/1.8" Progressive Scan, CMOS	1/3" Progressive Scan, CMOS	1/1.8" Progressive Scan, CMOS
Resolution	2048(H) x 1536(V) @ 30 fps	3072(H) x 2048(V) @ 30fps	2048(H) x 1536(V) @ 30 fps	3072(H) x 2048(V) @ 30fps
Multiple Streaming	High-frame Mode Support: 60Hz: 1 x fisheye (2048 x 1536, 25fps) or (1536 x 1536, 30fps) or 4 x PTZ (800 x 600, 30fps); Multi-channel Mode Support: 60Hz: 1 x fisheye (1536 x 1536, 20fps) and 1 x panoramic (1600 x 1200, 20fps) and 3 x PTZ (800 x 600, 20fps)	High-frame Mode Support: 60Hz: 1 x fisheye (3072 x 2048, 25fps) or (2048 x 2048, 30fps) or 4 x PTZ (1024 x 768, 30fps); Multi-channel Mode Support: 60Hz: 1 x fisheye (1280 x 1280, 15fps) and 1 x panoramic (2048 x 1536, 15fps) and 3 x PTZ (1024 x 768, 15fps)	High-frame Mode Support: 60Hz: 1 x fisheye (2048 x 1536, 25fps) or (1536 x 1536, 30fps) or 4 x PTZ (800 x 600, 30fps); Multi-channel Mode Support: 60Hz: 1 x fisheye (1536 x 1536, 20fps) and 1 x panoramic (1600 x 1200, 20fps) and 3 x PTZ (800 x 600, 20fps)	High-frame Mode Support: 60Hz: 1 x fisheye (3072 x 2048, 25fps) or (2048 x 2048, 30fps) or 4 x PTZ (1024 x 768, 30fps); Multi-channel Mode Support: 60Hz: 1 x fisheye (1280 x 1280, 15fps) and 1 x panoramic (2048 x 1536, 15fps) and 3 x PTZ (1024 x 768, 15fps)
Day/Night	True D/N			
Wide Dynamic Range	WDR (120 dB)	DWDR	WDR (120 dB)	DWDR
Digital S/N Ratio	50 dB			
IP Compression/Standard	H.264 / MJPEG			
Minimum Illumination	0.1 lux @ f1.2 (AGC On); 0.28 lux @ f2.0 (AGC On); 0 lux with IR On	0.05 lux @ f1.2 (AGC On); 0.3 lux @ f2.8 (AGC On); 0 lux with IR On	0.1 lux @ f1.2 (AGC On); 0.28 lux @ f2.0 (AGC On); 0 lux with IR On	0.05 lux @ f1.2 (AGC On); 0.3 lux @ f2.8 (AGC On); 0 lux with IR On
Lens	1.19mm @ f2.0	1.27mm @ f2.8	1.19mm @ f2.0	1.27mm @ f2.8
IR Range	33 ft. (10m)			
Local Storage	Micro SD / SDXC slot, up to 64GB			
Intelligence	--			
I/O	--			
Audio	Bi-directional, built-in speaker & mic			
Standard & Integration	ONVIF (Profile S), PSIA, CGI			
Voltage Input	12VDC / PoE (IEEE 802.3af)			
Operating Temp	-22°F~140°F (-30°C~60°C)			
Environmental Rating	--	--	IP66	IP66
Vandal Rating	--	--	IK10	IK10
Certification	FCC, CE, UL, REACH, RoHS, WEEE			

### Specialty IP Cameras Ordering Information

#### 360° INDOOR/OUTDOOR DOME CAMERAS

##### NTSC

**TVF-3101** TruVision 360° Dome, 3MPx, WDR, 1.19mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC

**TVF-3102** TruVision 360° Dome, 3MPx, WDR, 1.19mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC, IP66, IK10

**TVF-3103** TruVision 360° Dome, 6MPx, DWDR, 1.27mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC

**TVF-3104** TruVision 360° Dome, 6MPx, DWDR, 1.27mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC, IP66, IK10

##### PAL

**TVF-1101** TruVision 360° Dome, 3MPx, WDR, 1.19mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC

**TVF-1102** TruVision 360° Dome, 3MPx, WDR, 1.19mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC, IP66, IK10

**TVF-1103** TruVision 360° Dome, 6MPx, DWDR, 1.27mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC

**TVF-1104** TruVision 360° Dome, 6MPx, DWDR, 1.27mm Fisheye Lens, True D/N, 10m IR, 2-Way Audio (built-in mic & speaker), SD/SDHC Slot, PoE (802.3af)/12VDC, IP66, IK10

# TruVision® IP Products

## Specialty IP Open Standards Cameras



### Wi-Fi Corrosion Resistant

## 1.3MPx and 3MPx IP Wi-Fi® Wedge IR Cameras



- Supports IEEE802.11b/g/n Wi-Fi® standards
- DWDR and/or real-time video streaming up to 1080p resolution to capture every detail
- Encryption security support for 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS standards
- Intelligence features including cross line and intrusion detection
- Corrosion resistant
- 3-year warranty

### Specialty IP Cameras Ordering Information

#### 1.3MPX AND 3MPX IP WI-FI® WEDGE IR CAMERAS

##### NTSC

<b>TVW-3103</b>	TruVision IP Wi-Fi Wedge Camera, 1.3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, Gray Housing, NTSC
<b>TVW-3104</b>	TruVision IP Wi-Fi Wedge Camera, 1.3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, White Housing, NTSC
<b>TVW-3105</b>	TruVision IP Wi-Fi Wedge Camera, 3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, Gray Housing, NTSC
<b>TVW-3106</b>	TruVision IP Wi-Fi Wedge Camera, 3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, White Housing, NTSC
<b>TVW-3116</b>	TruVision IP Wi-Fi Wedge Camera, 3MPx, 6mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, White Housing, NTSC

##### PAL

<b>TVW-1103</b>	TruVision IP Wi-Fi Wedge Camera, 1.3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, Gray Housing, PAL
<b>TVW-1104</b>	TruVision IP Wi-Fi Wedge Camera, 1.3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, White Housing, PAL
<b>TVW-1105</b>	TruVision IP Wi-Fi Wedge Camera, 3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, Gray Housing, PAL
<b>TVW-1106</b>	TruVision IP Wi-Fi Wedge Camera, 3MPx, 2.8mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, White Housing, PAL
<b>TVW-1116</b>	TruVision IP Wi-Fi Wedge Camera, 3MPx, 6mm Fixed Lens, DWDR, True D/N, 10m IR, SD/SHDC Slot, PoE (802.3-af)/12VDC, Corrosion Resistant, IP66, IK8, Audio, White Housing, PAL

### IP Wi-Fi® Wedge IR Cameras Comparison Table

	Fixed Lens							
	1.3MPx		3MPx					
	Gray	White	Gray	White	White			
Sensor	1/3" Progressive Scan, CMOS							
Resolution	1280(H) x 960(V) @ 30fps		Max. 2048(H) x 1536(V) @ 20fps					
Multiple Streaming	Dual							
Day/Night	True D/N							
Wide Dynamic Range	DWDR (72 dB)							
Digital S/N Ratio	50 dB (AGC Off)							
IP Compression/Standard	H.264 / MJPEG							
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0 lux with IR On		Color: 0.07 lux @ f1.2 (AGC On); B/W: 0 lux with IR On					
Lens	2.8mm @ f2.0			6mm @ f2.0				
IR Range	33 ft. (10m)							
Local Storage	Micro SD / SDXC slot, up to 64GB							
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Cross Line, Intrusion Detection							
I/O	1 input / 1 output							
Audio	Input - Built-in / Output - External							
Standard & Integration	ONVIF (Profile S), PSIA, CGI							
Voltage Input	12VDC / PoE (IEEE 802.3af)							
Operating Temp	-22°F~140°F (-30°C~60°C)							
Environmental Rating	IP66							
Vandal Rating	IK8							
Certification	R&TTE, FCC, CE, UL, C-Tick, REACH, RoHS, WEEE							

## Specialty IP Open Standards Cameras



Wi-Fi Panoramic

### Wi-Fi Panoramic Wedge Camera



- 3MPx
- Up to 160 horizontal field of view that does not require de-warping
- H.264/MJPEG compression technology with dual-streaming capability accommodating multiple settings
- IEEE802.11b/g/n Wi-Fi® standards support
- 3-year warranty

### Specialty IP Cameras Ordering Information

#### WI-FI® PANORAMIC WEDGE CAMERAS

##### NTSC

**TVW-3130** TruVision® Panoramic Wi-Fi Wedge Camera, 3MPx, 1.6mm Lens, Digital D/N, Audio, Alarm, PoE (802.3-af)/12VDC, IP66, IK8, NTSC

##### PAL

**TVW-1130** TruVision Panoramic Wi-Fi Wedge Camera, 3MPx, 1.6mm Lens, Digital D/N, Audio, Alarm, PoE (802.3-af)/12VDC, IP66, IK8, PAL

### Wi-Fi® Panoramic Wedge Camera Comparison Table

	<b>3MPx</b>
	<b>Gray</b>
	<b>TVW-3130</b>
Sensor	1/3" Progressive Scan, CMOS
Resolution	1920(H) x 1080(V) @ 15fps (60Hz); 1776(H) x 1340(V) @ 15fps (60Hz)
Maximum Real-Time Resolution (@ fps)	2144(H) x 604(V) @ 30 fps (60Hz); 2080(H) x 784(V) @ 30 fps (60Hz); 1280(H) x 960(V) @ 30 fps (60Hz); 1280(H) x 720(V) @ 30 fps (60Hz)
Field of View (H&V) @ resolution for wall mount application	(H)-80° to +80° (V)33° to 75° @ 2144 x 604; (H)-77° to +77° (V)26° to 80° @ 2080 x 784; (H)-71° to +71° (V)15° to 90° @ 1920 x 1080; (H)-71° to +71° (V)15° to 90° @ 1280 x 720; (H)-64° to +64° (V)6° to 100° @ 1776 x 1340; (H)-64° to +64° (V)6° to 100° @ 1280 x 960
Multiple Streaming	Dual
Day/Night	Digital D/N
Wide Dynamic Range	DWDR
Digital S/N Ratio	50 dB (AGC Off)
IP Compression/Standard	H.264 / MJPEG
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0.001 lux @ f1.2 (AGC On)
Lens	1.6mm @ f1.6
IR Range	--
Local Storage	Micro SD / SDXC slot, up to 64GB
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Cross Line, Intrusion Detection
I/O	Alarm I/O
Wireless Standards	IEEE802.11b, 802.11g, 802.11n
Audio	Input - Built-in Mic / Output - External
Standard & Integration	ONVIF (Profile S), PSIA, CGI
Voltage Input	12VDC / PoE (IEEE802.3-af)
Operating Temp	-22°F~140°F (-30°C~60°C)
Environmental Rating	IP66
Vandal Rating	IK8
Certification	R&TTE, FCC, CE, UL, C-Tick, REACH, RoHS, WEEE

# TruVision® IP Products

## Specialty IP Open Standards Cameras



**Covert**

### 1.3MPx Covert IP Camera



- 1/3" CMOS image sensor
- Embedded video intelligence: cross line, intrusion, de-focus and face detection capabilities
- Up to 120dB WDR
- Region of Interest (ROI) function and bi-directional audio
- 3-year warranty

#### 1.3MPx Covert IP Camera Comparison Table

	Indoor Covert IP Camera
	1.3MPx
	TVA-3101
Sensor	1/3" Progressive Scan, CMOS
Resolution	1280(H) x 960(V) @ 30fps
Multiple Streaming	Triple
Day/Night	Digital D/N
Wide Dynamic Range	WDR (120 dB)
Digital S/N Ratio	50 dB
IP Compression/Standard	H.264 / MPEG4 / MJPEG
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC ON)
Lens	2mm @f2.0 or 3.7mm @ f2.3 or 4mm @ f2.0
Local Storage	Micro SD/SDXC slot, up to 64GB
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Face Detection, Audio Exception Detection, Cross Line, Intrusion Detection, De-focus Detection, Scene Change Detection
I/O	1 input / 1 output
Audio	Input: 1 ch. 3.5mm audio interface (2.0-2.4 Vp-p, 1K ohm); Output: 1 ch. 3.5mm audio interface (Line level, 600 ohm)
Standard & Integration	ONVIF (Profile S), PSIA, CGI
Voltage Input	12VDC / PoE (IEEE 802.3af)
Operating Temp	-22°F~140°F (-30°C~60°C)
Environmental Rating	Indoor
Vandal Rating	--
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE



Pinhole



L-shape



Cylinder

#### Covert Lens Comparison Table

	TVL-0101	TVL-0102	TVL-0103	TVL-0104	TVL-0105	TVL-0106	TVL-0107	TVL-0108	TVL-0109	TVL-0110
Lens Type	Pinhole, 3.7mm @ f2.3	L-Shape, 3.7mm @ f2.3	Cylinder, 4mm @ f2	Pinhole, 3.7mm @ f2.3	L-Shape, 3.7mm @ f2.3	Cylinder, 4mm @ f2	L-shape, 2.0mm @ f2.0	Cylinder, 2.0mm @ f2.0	L-shape, 2.0mm @ f2.0	Cylinder, 2.0mm @ f2.0
Field of View (FOV)	57°	73°		57°		73.1°	115°	120°	115°	120°
Connection						RJ12				
Cable Length	6.5 ft (2m)			26.2 ft. (8m)			6.5 ft (2m)		26.2 ft. (8m)	
Dimensions	1.02 x 1.58 in. (26 x 40mm)	1.46 x 1.02 in. (26 x 37 x 26 x 51mm)	1.02 x 2 in. (26 x 51mm)	1.02 x 1.58 in. (26 x 40mm)	1.46 x 1.02 in. (26 x 37 x 26 x 51mm)	1.02 x 2 in. (26 x 51mm)	1.92 x 1.21 in. (26 x 12.4 in. (48.7 x 30.7 x 31.5mm)	1.02 x 2 in. (26 x 51mm)	1.92 x 1.21 in. (26 x 12.4 in. (48.7 x 30.7 x 31.5mm)	1.02 x 2 in. (26 x 51mm)
Weight	0.25 lbs. (113g)	0.22 lbs. (99g)	0.28 lbs. (127g)	0.51 lbs. (231g)	0.49 lbs. (222g)	0.53 lbs. (240g)	0.53 lbs. (240g)	0.28 lbs. (127g)	0.28 lbs. (127g)	0.53 lbs. (240g)
Storage Temperature							-4°F~158°F (-20°C~70°C)			
Operating Temperature							-22°F~140°F (-30°C~60°C)			

#### COVERT LENS OPTIONS\*

TVL-0101	TruVision Covert Lens, 1.3MPx, Pinhole, 3.7mm, 2m Cable
TVL-0102	TruVision Covert Lens, 1.3MPx, L-shape, 3.7mm, 2m Cable
TVL-0103	TruVision Covert Lens, 1.3MPx, Cylinder, 4mm, 2m Cable
TVL-0104	TruVision Covert Lens, 1.3MPx, Pinhole, 3.7mm, 8m Cable
TVL-0105	TruVision Covert Lens, 1.3MPx, L-shape, 3.7mm, 8m Cable
TVL-0106	TruVision Covert Lens, 1.3MPx, Cylinder, 4mm, 8m Cable
TVL-0107	TruVision Covert Lens, 1.3MPx, L-shape, 2mm, 2m Cable
TVL-0108	TruVision Covert Lens, 1.3MPx, Cylinder, 2mm, 2m Cable
TVL-0109	TruVision Covert Lens, 1.3MPx, L-shape, 2mm, 8m Cable
TVL-0110	TruVision Covert Lens, 1.3MPx, Cylinder, 2mm, 8m Cable

\*Lenses ordered separately

## Specialty IP Products Ordering Information

### 1.3MPX COVERT IP CAMERA\*

#### NTSC

**TVA-3101** TruVision Covert Camera, 1.3MPx, WDR, Digital D/N, Single Lens, Audio, Alarm, SD/SHDC/SDXC Slot, Intelligence, PoE (802.3-af)/12VDC, NTSC

#### PAL

**TVA-1101** TruVision Covert Camera, 1.3MPx, WDR, Digital D/N, Single Lens, Audio, Alarm, SD/SHDC/SDXC Slot, Intelligence, PoE (802.3-af)/12VDC, PAL

## Encoders and Decoders

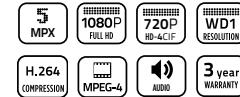


### TVE Series IP Video Encoders



- 1-, 4-, 8- and 16-channel encoders
- Supports H.264, MPEG4 and MJPEG compression
- Encoding resolution 960H, 4CIF, 2CIF, CIF and QCIF
- Dual-streaming functionality
- ONVIF Profile S, PSIA and CGI support
- Bi-directional audio support
- Alarm input/output support
- 3-year warranty

### High Definition IP Video Decoder



- Multi-channel decoder
- Choice between three video output (HDMI, VGA and BNC)
- Full HD output
- Views based on alarm activity
- Sequence up to 64 cameras
- Real-time decoding
- Supports up to 16-channel views on one display
- 3-year warranty

#### ENCODERS

TVE-110	TruVision® IP Encoder, 1-Channel, 960H, Audio, Alarm, RS-485, PoE (802.3-af) / 12VDC, Compact
TVE-410	TruVision IP Encoder, 4-Channel, 960H, Audio, Alarm, RS-485, PoE (802.3-af) / 12VDC, Compact
TVE-810	TruVision IP Encoder, 8-Channel, 960H, Audio, Alarm, RS-485, 12VDC, Desktop
TVE-1610	TruVision IP Encoder, 16-Channel, 960H, Audio, Alarm, RS-485, 12VDC, 19", Rack Mount
TVE-RMB	TruVision Encoder Rack Mount Bracket (use with TVE-110/410/810)

#### DECODER

TVE-DEC11	TruVision IP Video Decoder to BNC, HDMI and VGA Output, Audio, Alarm, 12VDC
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# TruVision® IP Products

## IP/PoE NVR & Megapixel Camera Kits

The TruVision NVR 10 IP video kit from Interlogix provides a complete, cost-effective surveillance solution that is also incredibly easy to install. Available in 4- and 8-channel configurations, each kit includes four TruVision cameras with no IP configuration or programming required.

### NVR 10 and Megapixel Camera Kit

#### 4-channel NVR with 4 IR Bullet IP Cameras



Model	Description	NVR	Cameras
<b>TVN-1004-KB1</b>	4-Channel Kit w/4 IR Bullet (6mm lens) Cameras Kit	1 x TVN-1004cS-1TB 4-Channel NVR 10 Compact w/Built-in 4-Port PoE Switch, 1TB Storage	4 x TVB-3101 1.3MPx Open Standards IR Bullet (6mm lens) Cameras
<b>TVN-1004-KB3</b>	4-Channel Kit w/4 IR Bullet (4mm lens) Cameras Kit	1 x TVN-1004cS-1TB 4-Channel NVR 10 Compact w/Built-in 4-Port PoE Switch, 1TB Storage	4 x TVB-3103 1.3MPx Open Standards IR Bullet (4mm lens) Cameras

#### 4-channel NVR with 4 IR Wedge IP Cameras



Model	Description	NVR	Cameras
<b>TVN-1004-KW1</b>	4-Channel Kit w/4 1.3MPx Wedge Cameras Kit	1 x TVN-1004cS-1TB 4-Channel NVR 10 Compact w/Built-in 4-Port PoE Switch, 1TB Storage	4 x TVW-3101 1.3MPx Open Standards Low-profile Mini Dome IR Wedge (2.8mm lens) Cameras
<b>TVN-1004-KW2</b>	4-Channel Kit w/4 3MPx Wedge Cameras Kit	1 x TVN-1004cS-2TB 4-Channel NVR 10 Compact w/Built-in 4-Port PoE Switch, 2TB Storage	4 x TVW-3102 3MPx Open Standards Low-profile Mini Dome IR Wedge (2.8mm lens) Cameras

#### 8-channel NVR with 4 IR Bullet IP Cameras



Model	Description	NVR	Cameras
<b>TVN-1008-KB1</b>	8-Channel Kit w/4 IR Bullet (6mm lens) Cameras Kit	1 x TVN-1008S-2TB 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	4 x TVB-3101 1.3MPx Open Standards IR Bullet (6mm lens) Cameras
<b>TVN-1008-KB3</b>	8-Channel Kit w/4 IR Bullet (4mm lens) Cameras Kit	1 x TVN-1008S-2TB 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	4 x TVB-3103 1.3MPx Open Standards IR Bullet (4mm lens) Cameras

#### 8-channel NVR with 4 IR Wedge IP Cameras



Model	Description	NVR	Cameras
<b>TVN-1008-KW1</b>	8-Channel Kit w/4 1.3MPx Wedge Cameras Kit	1 x TVN-1008S-2TB 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	4 x TVW-3101 1.3MPx Open Standards Low-profile Mini Dome IR Wedge (2.8mm lens) Cameras
<b>TVN-1008-KW2</b>	8-Channel Kit w/4 3MPx Wedge Cameras Kit	1 x TVN-1008S-2TB 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	4 x TVW-3102 3MPx Open Standards Low-profile Mini Dome IR Wedge (2.8mm lens) Cameras

DESIGNED  
TO MEET THE  
MOST DEMANDING  
STANDARDS.  
**YOURS.**



# TruVision® Analog Products

## HD-Hybrid Digital Video Recorders

TruVision's HD-TVI technology delivers up to 1080p 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.



Hybrid Recorder



Full Featured Hybrid Recorder

### DVR 12HD Series



- 4-, 8- or 16-channel real-time recording
- Connect standard or TVI analog cameras
- TVI over coax technology supports up to 1080p HD resolution
- High definition TVI cameras can be used with standard RG59 coax cable
- Swap up to half of the analog channels for IP cameras
- Up to 8TB internal storage
- HDMI ports for local high definition viewing

### DVR 44HD Series



- 8- or 16-channel real-time recording
- Connect standard or TVI analog cameras
- TVI over coax technology supports up to 1080p HD resolution
- High definition TVI cameras can be used with standard RG59 coax cable
- Easy full channel one-for-one exchange for analog to IP cameras
- User-serviceable internal hard disk drives are accessible via the drop-down front panel
- Up to 16TB internal storage
- HDMI ports for local high definition viewing

### High-definition video made easy



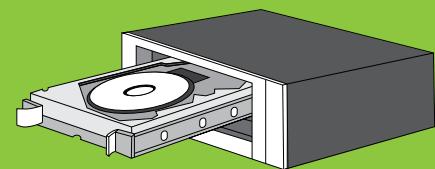
#### Analog to IP Migration

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 1080p 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 44HD Only)

## Analog/Hybrid Digital Video Recorders Comparison Table

	DVR 12CHD	DVR 12HD	DVR 44HD
<b>Channels &amp; Performance</b>			
Analog channels	4	8/16	8/16
Maximum IP channels	2	4/8	8/16
Real-time recording	HD 720p	HD 720p	Full HD 1080p
Full HD 1080p resolution	15 fps	15 fps	30 fps
Audio channels	4	8/16	16
<b>Network &amp; Streaming</b>			
Gigabit ethernet ports	1	1	1
ezDDNS	•	•	•
Maximum outgoing video streams	128	128	128
Maximum in/out combined bandwidth	60 Mbps	96/128 Mbps	200 Mbps
<b>Storage</b>			
Max storage (TB)	4	8	16
SATA interfaces	1	2	4
HDD redundancy	—	•	•
Front side accessible HDDs	—	—	•
Expandable internal storage	—	—	•
eSATA support	—	—	•
NAS support	—	—	•
Dual stream recording	—	—	•
Auto archive	—	—	•
<b>Local Viewing &amp; Controls</b>			
Front panel controls	•	•	•
Browser interface	•	•	•
HDMI	•	•	•
VGA	•	•	•
BNC output	•	•	•
Bidirectional audio	•	•	•
Alarm input/output	4/1	4/1	16/4
Keypad support	TVK-800	TVK-800	TVK-800
USB slots	2	2	3
<b>General Features</b>			
Analytics on analog channels	—	—	•
Text insertion	•	•	•
CD/DVD burner	Via USB	Via USB	Via USB
Reverse playback	•	•	•
Size	1U	1.5U	1.5U
Rack mountable	—	•	•
<b>Software Support</b>			
TruVision Navigator	•	•	•
TVRmobile	•	•	•
Advisor	•	•	•
OnGuard®	•	•	•
TruPortal™	•	•	•

## Analog/HD-Hybrid Video Recorders Ordering Information

### DVR 12CHD

TVR-1204CHD-1T	TruVision® DVR 12HD Compact, 1080p HD, H.264, 4-Channels, 1TB Storage
TVR-1204CHD-2T	TruVision DVR 12HD Compact, 1080p HD, H.264, 4-Channels, 2TB Storage
TVR-1204CHD-4T	TruVision DVR 12HD Compact, 1080p HD, H.264, 4-Channels, 4TB Storage

### DVR 12HD

TVR-1208HD-1T	TruVision DVR 12HD, 1080p HD, H.264, 8-Channels, 1TB Storage
TVR-1208HD-2T	TruVision DVR 12HD, 1080p HD, H.264, 8-Channels, 2TB Storage
TVR-1208HD-4T	TruVision DVR 12HD, 1080p HD, H.264, 8-Channels, 4TB Storage
TVR-1208HD-8T	TruVision DVR 12HD, 1080p HD, H.264, 8-Channels, 8TB Storage
TVR-1216HD-1T	TruVision DVR 12HD, 1080p HD, H.264, 16-Channels, 1TB Storage
TVR-1216HD-2T	TruVision DVR 12HD, 1080p HD, H.264, 16-Channels, 2TB Storage
TVR-1216HD-4T	TruVision DVR 12HD, 1080p HD, H.264, 16-Channels, 4TB Storage
TVR-1216HD-8T	TruVision DVR 12HD, 1080p HD, H.264, 16-Channels, 8TB Storage

### DVR 44HD

TVR-4408HD-2T	TruVision DVR 44HD, 1080p HD, H.264, 8-Channels, 2TB Storage
TVR-4408HD-4T	TruVision DVR 44HD, 1080p HD, H.264, 8-Channels, 4TB Storage
TVR-4408HD-8T	TruVision DVR 44HD, 1080p HD, H.264, 8-Channels, 8TB Storage
TVR-4408HD-12T	TruVision DVR 44HD, 1080p HD, H.264, 8-Channels, 12TB Storage
TVR-4416HD-2T	TruVision DVR 44HD, 1080p HD, H.264, 16-Channels, 2TB Storage
TVR-4416HD-4T	TruVision DVR 44HD, 1080p HD, H.264, 16-Channels, 4TB Storage
TVR-4416HD-8T	TruVision DVR 44HD, 1080p HD, H.264, 16-Channels, 8TB Storage
TVR-4416HD-16T	TruVision DVR 44HD, 1080p HD, H.264, 16-Channels, 16TB Storage

# TruVision® Analog Products

## Analog Cameras

TruVision analog camera line support standard analog, 960H and HD-TVI technology. TruVision's HD-TVI technology delivers up to 1080p high definition quality video over standard analog coax cable.

### HD-TVI / Analog Cameras



HD-TVI



Analog



PTZ Analog

#### HD-TVI Analog Cameras



- Bullet or Dome form factor
- 720p or 1080p HD resolution options
- Select modules also support 960H resolution
- 720p models provide DWDR; 1080p models provide True WDR (120 dB)
- True Day/Night functionality and Infrared Illuminators with Smart IR function
- 3-year warranty

#### Value-line Analog Cameras



- 700TVL or 720 TVL resolution
- 20m (66 ft.) or 40m (132 ft.) IR Illumination for optimal viewing
- IP66 rated enclosure
- IR Cut Filter with auto switch
- Cost-effective and easy to install
- 3-year warranty

#### 960H Premium Resolution PTZ Cameras



- 1/3" EXview CCD II (23X); 1/4" super HAD-II CCD (36X)
- 23X or 36X optical zoom, 16X digital
- 700TVL resolution
- 3DNR and DWDR (ATR-EX) functionality
- Supports Interlogix™ RS-485 protocol as well as select third-party protocols
- Indoor and outdoor versions available
- 3-year warranty

#### Performance, flexibility and ease of use



##### Improved Performance

HD-TVI cameras provide up to 1080p 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 Bullet and Dome Cameras Comparison Table

The TruVision® line includes a comprehensive family of HD-TVI infrared (IR) cameras for stand-alone or integrated installations, designed for up to 1080p image quality over existing coaxial cable.

	Fixed Lens		Varifocal Lens			
	720p	1080p	720p	1080p		
	TVB-4401	TVB-4403	TVB-4402	TVB-4404		
						
Sensor	1/3" Progressive Scan, CMOS					
Standard	HD-TVI	960H and HD-TVI	960H or HD-TVI	960H and HD-TVI		
Resolution	720p	1080p	720p	1080p		
Effective Pixels	1280 (H) x 720 (V)	1920 (H) x 1080 (V)	1280 (H) x 720 (V)	1920 (H) x 1080 (V)		
Synchronization	Internal					
Electronic Shutter	1/30 s to 1/30,000 s					
Digital S/N Ratio	52 dB (AGC Off)					
Lens	3.6mm @ f2.2		2.8~12mm @ f1.4			
Day/Night	True D/N					
Wide Dynamic Range	DWDR	120 dB WDR on HD-TVI output only (if WDR is enabled, then the 960H output is disabled)	DWDR	120 dB WDR on HD-TVI output only (if WDR is enabled, then the 960H output is disabled)		
Minimum Illumination	0.01 lux @ f1.2 (AGC On), 0.034 lux @ f2.2 (AGC On), 0 lux with IR On	66 ft. (20m)	0.01 lux @ f1.2 (AGC On), 0.014 lux @ f1.4 (AGC On), 0 lux with IR On	132 ft. (40m)		
IR Range	66 ft. (20m)		132 ft. (40m)			
Video Output	HD-TVI	960H and HD-TVI	960H or HD-TVI	960H and HD-TVI		
Voltage Input	12 VDC		12 VDC / 24 VAC			
Operating Temp	-22°F~140°F (-30°C~60°C)					
Environmental Rating	IP66					
Vandal Rating	--					
Certification	UL, CE, FCC, C-Tick, REACH, RoHS, WEEE					

	Fixed Lens		Varifocal Lens			
	720p	1080p	720p	1080p		
	TVD-4401	TVD-4403	TVD-4402	TVD-4404		
						
Sensor	1/3" Progressive Scan, CMOS					
Standard	HD-TVI	960H and HD-TVI	960H or HD-TVI	960H and HD-TVI		
Resolution	720p	1080p	720p	1080p		
Effective Pixels	1280 (H) x 720 (V)	1920 (H) x 1080 (V)	1280 (H) x 720 (V)	1920 (H) x 1080 (V)		
Synchronization	Internal					
Electronic Shutter	1/30 s to 1/30,000 s					
Digital S/N Ratio	52 dB (AGC Off)					
Lens	2.8mm @ f2.2		2.8~12mm @ f1.4			
Day/Night	True D/N					
Wide Dynamic Range	DWDR	120 dB WDR on HD-TVI output only (if WDR is enabled, then the 960H output is disabled)	DWDR	120 dB WDR on HD-TVI output only (if WDR is enabled, then the 960H output is disabled)		
Minimum Illumination	0.01 lux @ f1.2 (AGC On), 0.034 lux @ f2.2 (AGC On), 0 lux with IR On	66 ft. (20m)	0.01 lux @ f1.2 (AGC On), 0.014 lux @ f1.4 (AGC On), 0 lux with IR On	132 ft. (40m)		
IR Range	66 ft. (20m)		132 ft. (40m)			
Video Output	HD-TVI	960H and HD-TVI	960H or HD-TVI	960H and HD-TVI		
Voltage Input	12 VDC		12 VDC / 24 VAC			
Operating Temp	-22°F~140°F (-30°C~60°C)					
Environmental Rating	IP66					
Vandal Rating	--	IK10				
Certification	UL, CE, FCC, C-Tick, REACH, RoHS, WEEE					

# TruVision® Analog Products

## Analog Cameras Comparison Table

The TruVision value line of cameras includes a comprehensive family of analog infrared (IR) cameras designed for excellent image quality at a cost-effective price.

	Fixed Lens		Varifocal Lens	
	700 TVL		720 TVL	
	TVW-4101	TVT-4201	TVT-4202	TVD-4202
Sensor	1/3" CMOS		1/3", 1.3MPx, 1280H, CMOS	
Resolution	700TVL		720TVL	
Effective Pixels	976 (H) x 496 (V)		1305 (H) x 1049 (V)	1280 (H) x 960 (V)
Day/Night			True D/N	
Wide Dynamic Range	DWDR	--		DWDR
Digital S/N Ratio			62 dB	
Electronic Shutter	1/60 s to 1/100,000 s			1/30 s to 1/30,000 s
Minimum Illumination		0.1 lux @ f1.2 (AGC ON); 0 lux with IR ON		
IR Range	33 ft. (10m)	66 ft. (20m)		132 ft. (40m)
Lens	2.8mm	3.6mm @ f2.5		2.8~12mm @ f1.4
Video Output		1 Vp-p composite output (75 ohm/BNC)		
Voltage Input		12 VDC		12 VDC / 24 VAC
Operating Temp	-4°F~158°F (-20°C~70°C)		-40°F~140°F (-40°C~60°C)	
Environmental Rating			IP66	
Vandal Rating	IK8	--		IK10
Certification		FCC, CE, UL, C-Tick, REACH, RoHS, WEEE		

	Fixed Lens		Varifocal Lens	
	700 TVL		720 TVL	
	TVB-4201	TVB-4202	TVB-4203	
Sensor	1/3" CMOS		1/3", 1.3MPx, 1280H, CMOS	
Resolution	700TVL		720TVL	
Effective Pixels	976 (H) x 496 (V)		1305 (H) x 1049 (V)	
Day/Night		True D/N		
Wide Dynamic Range	--		DWDR	
Digital S/N Ratio		62 dB		
Electronic Shutter	1/60 s to 1/100,000 s	1/60 s to 1/100,000 s	1/30 s to 1/30,000 s	
Minimum Illumination		0.1 lux @ f1.2 (AGC On); 0 lux with IR On		
IR Range	66 ft. (20m)		132 ft. (40m)	
Lens	3.6mm @ f2.5	6mm @ f2.5	2.8~12mm @ f1.4	
Video Output		1 Vp-p composite output (75 ohm/BNC)		
Voltage Input		12 VDC		
Operating Temp		-40°F~140°F (-40°C~60°C)		
Environmental Rating		IP66		
Vandal Rating	--			
Certification		FCC, CE, UL, C-Tick, REACH, RoHS, WEEE		

## Analog PTZ Cameras Comparison Table

The TruVision® 960H Premium Resolution Series PTZ camera utilizes the latest PTZ technology to provide powerful, cost-effective surveillance for retail, commercial and small business applications. With advanced features such as True Day/Night surveillance and Digital Wide Dynamic Range imaging, the 23X and 36X PTZ cameras provide optimal image quality in a variety of indoor or outdoor environments. Motion detection, auto tracking, privacy masking and electronic image stabilization provide additional value to any surveillance system.

	Outdoor		Indoor					
	Pendant Mount		Surface Mount		Flush Mount			
	23X Zoom	36X Zoom	23X Zoom	36X Zoom	23X Zoom	36X Zoom		
	TVP-4101	TVP-4104	TVP-4102	TVP-4105	TVP-4103	TVP-4106		
Sensor	1/3" EXview CCD II	1/4" super HAD-II CCD	1/3" EXview CCD II	1/4" super HAD-II CCD	1/3" EXview CCD II	1/4" super HAD-II CCD		
Resolution	700TVL							
Effective Pixels	976(H) x 494(V)							
Synchronization System	Internal							
Day/Night	True D/N							
Wide Dynamic Range	DWDR (ATR-EX)							
Digital Noise Reduction	3DNR							
Digital S/N Ratio	52 dB (AGC Off)							
Electronic Shutter	1/4 s to 1/100,000 s							
Minimum Illumination	Color: 0.1 lux @ f1.4 (AGC ON); BW: 0.01 lux @ f1.4 (AGC ON)	Color: 0.2 lux @ f1.4 (AGC ON); BW: 0.02 lux @ f1.4 (AGC ON)	Color: 0.1 lux @ f1.4 (AGC ON); BW: 0.01 lux @ f1.4 (AGC ON)	Color: 0.2 lux @ f1.4 (AGC ON); BW: 0.02 lux @ f1.4 (AGC ON)	Color: 0.1 lux @ f1.4 (AGC ON); BW: 0.01 lux @ f1.4 (AGC ON)	Color: 0.2 lux @ f1.4 (AGC ON); BW: 0.02 lux @ f1.4 (AGC ON)		
Lens	4.0~92mm @ f1.6~f3.7	3.3~119mm @ f1.6~f4.4	4.0~92mm @ f1.6~f3.7	3.3~119mm @ f1.6~f4.4	4.0~92mm @ f1.6~f3.7	3.3~119mm @ f1.6~f4.4		
Zoom Range	23X Optical / 16X Digital	36X Optical / 16X Digital	23X Optical / 16X Digital	36X Optical / 16X Digital	23X Optical / 16X Digital	36X Optical / 16X Digital		
Pan Range and Speed	360° Endless, Manual Speed 0.1°~300° per sec, Preset Speed 540° per sec							
Tilt Range and Speed	-5° to 90° (Auto Flip), Manual Speed 0.1°~240° per sec, Preset Speed 400° per sec							
Video Output	1 Vp-p composite output (75 ohm/BNC)							
Presets	256							
Intelligence	Auto-tracking, Presets, Preset Tours, Shadow Tours, Scheduling, Motion Detection, Zones, Alarms							
Privacy Mask	24 Zones							
Alarm I/O	7 inputs / 2 outputs							
PTZ Protocol	Interlogix-485, Pelco-P, Pelco-D							
Voltage Input	24 VAC							
Operating Temp	-22°F~149°F (-30°C ~65°C)		-14°F~122°F (-10°C~50°C) surface/flush					
Environmental Rating	IP66		IP44		IP54			
Heater/Fan	Yes		Fan Only					
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE							

# TruVision® Analog Products

## HD-TVI/Analog Cameras Ordering Information

HD-TVI/CAMERAS	
<b>NTSC</b>	
<b>TVB-4401</b>	TruVision HD-TVI Analog Bullet Camera, 720p, 3.6mm Lens, True D/N, DWDR, 20m IR, HD-TVI Output, 12VDC, IP66, NTSC
<b>TVB-4402</b>	TruVision HD-TVI Analog Bullet Camera, 720p, 2.8~12mm VF Lens, True D/N, DWDR, 40m IR, 960H Monitor & HD-TVI Selectable Output, Coax & Button OSD Control, 12VDC/24VAC, IP66, NTSC
<b>TVB-4403</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 3.6mm Lens, True D/N, WDR, 20m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, NTSC
<b>TVB-4404</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 2.8~12mm VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, NTSC
<b>TVD-4401</b>	TruVision HD-TVI Analog Dome Camera, 720p, 2.8mm Lens, True D/N, DWDR, 20m IR, HD-TVI Output, 12VDC, IP66, Plastic, NTSC
<b>TVD-4402</b>	TruVision HD-TVI Analog Dome Camera, 720p, 2.8~12mm VF Lens, True D/N, DWDR, 40m IR, 960H Monitor & HD-TVI Selectable Output, Coax & Button OSD Control, 12VDC/24VAC, IP66, IK10, NTSC
<b>TVD-4403</b>	TruVision HD-TVI Analog Dome Camera, 1080p, 2.8mm Lens, True D/N, WDR, 20m IR, 960H Monitor & HD-TVI Dual-output, 12VDC, IP66, Plastic, NTSC
<b>TVD-4404</b>	TruVision HD-TVI Analog Dome Camera, 1080p, 2.8~12mm VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, IK10, NTSC
<b>PAL</b>	
<b>TVB-2401</b>	TruVision HD-TVI Analog Bullet Camera, 720p, 3.6mm Lens, True D/N, DWDR, 20m IR, HD-TVI Output, 12VDC, IP66, PAL
<b>TVB-2402</b>	TruVision HD-TVI Analog Bullet Camera, 720p, 2.8~12mm VF Lens, True D/N, DWDR, 40m IR, 960H Monitor or HD-TVI Selectable Output, Coax & Button OSD Control, 12VDC/24VAC, IP66, PAL
<b>TVB-2403</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 3.6mm Lens, True D/N, WDR, 20m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC, IP66, PAL
<b>TVB-2404</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 2.8~12mm VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, PAL
<b>TVD-2401</b>	TruVision HD-TVI Analog Dome Camera, 720p, 2.8mm Lens, True D/N, DWDR, 20m IR, HD-TVI Output, 12VDC, IP66, Plastic, PAL
<b>TVD-2402</b>	TruVision HD-TVI Analog Dome Camera, 720p, 2.8~12mm VF Lens, True D/N, DWDR, 40m IR, 960H Monitor or HD-TVI Selectable Output, Coax & Button OSD Control, 12VDC/24VAC, IP66, IK10, PAL
<b>TVD-2403</b>	TruVision HD-TVI Analog Dome Camera, 1080p, 2.8mm Lens, True D/N, WDR, 20m IR, 960H Monitor & HD-TVI Dual-output, 12VDC, IP66, Plastic, PAL
<b>TVD-2404</b>	TruVision HD-TVI Analog Dome Camera, 1080p, 2.8~12mm VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, IK10, PAL
<b>VALUE-LINE ANALOG CAMERAS</b>	
<b>NTSC</b>	
<b>TVW-4101</b>	TruVision IR Wedge Camera, 700TVL, 2.8mm Fixed Lens, True D/N, 10m IR, 12VDC, NTSC
<b>TVB-4201</b>	TruVision Bullet Camera, 700TVL, 3.6mm Lens, True D/N, 20m IR, 12VDC, IP66, NTSC
<b>TVB-4202</b>	TruVision Bullet Camera, 700TVL, 6mm Lens, True D/N, 20m IR, 12VDC, IP66, NTSC
<b>TVB-4203</b>	TruVision Bullet Camera, 1280H Sensor, 720TVL, 2.8~12mm Varifocal Lens, True D/N, 40m IR, OSD, 12VDC, IP66, NTSC
<b>TVD-4202</b>	TruVision Dome Camera, 1280H Sensor, 720TVL, 2.8~12mm Varifocal Lens, True D/N, 3-Axis, 40m IR, OSD, 12VDC/24VAC, IP66, IK10, NTSC
<b>TVT-4201</b>	TruVision Turret Camera, 700TVL, 3.6mm Lens, True D/N, 20m IR, 12VDC, IP66, NTSC
<b>TVT-4202</b>	TruVision Turret Camera, 1280H Sensor, 720TVL, 2.8~12mm Varifocal Lens, True D/N, 40m IR, 12VDC, IP66, NTSC
<b>PAL</b>	
<b>TVW-2101</b>	TruVision IR Wedge Camera, 700TVL, 2.8mm Fixed Lens, True D/N, 10m IR, 12VDC, PAL
<b>TVB-2201</b>	TruVision Bullet Camera, 700TVL, 3.6mm Lens, True D/N, 20m IR, 12VDC, IP66, PAL
<b>TVB-2202</b>	TruVision Bullet Camera, 700TVL, 6mm Lens, True D/N, 20m IR, 12VDC, IP66, PAL
<b>TVB-2203</b>	TruVision Bullet Camera, 1280H Sensor, 720TVL, 2.8~12mm Varifocal Lens, True D/N, 40m IR, OSD, 12VDC, IP66, PAL
<b>TVD-2202</b>	TruVision Dome Camera, 1280H Sensor, 720TVL, 2.8~12mm Varifocal Lens, True D/N, 3-Axis, 40m IR, OSD, 12VDC/24VAC, IP66, IK10, PAL
<b>TVT-2201</b>	TruVision Turret Camera, 700TVL, 3.6mm Lens, True D/N, 20m IR, 12VDC, IP66, PAL
<b>TVT-2202</b>	TruVision Turret Camera, 1280H Sensor, 720TVL, 2.8~12mm Varifocal Lens, True D/N, 40m IR, 12VDC, IP66, PAL
960H PREMIUM RESOLUTION PTZ CAMERAS	
<b>NTSC</b>	
<b>TVP-4101</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 23X, True D/N, DWDR, Pendant Outdoor, IP66, 24VAC, NTSC
<b>TVP-4102</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 23X, True D/N, DWDR, Surface Mount, IP44, 24VAC, NTSC
<b>TVP-4103</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 23X, True D/N, DWDR, Flush Mount, IP54, 24VAC, NTSC
<b>TVP-4104</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 36X, True D/N, DWDR, Pendant Outdoor, IP66, 24VAC, NTSC
<b>TVP-4105</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 36X, True D/N, DWDR, Surface Mount, IP44, 24VAC, NTSC
<b>TVP-4106</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 36X, True D/N, DWDR, Flush Mount, IP54, 24VAC, NTSC
<b>PAL</b>	
<b>TVP-2101</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 23X, True D/N, DWDR, Pendant Outdoor, IP66, 24VAC, PAL
<b>TVP-2102</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 23X, True D/N, DWDR, Surface Mount, IP44, 24VAC, PAL
<b>TVP-2103</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 23X, True D/N, DWDR, Flush Mount, IP54, 24VAC, PAL
<b>TVP-2104</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 36X, True D/N, DWDR, Pendant Outdoor, IP66, 24VAC, PAL
<b>TVP-2105</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 36X, True D/N, DWDR, Surface Mount, IP44, 24VAC, PAL
<b>TVP-2106</b>	TruVision Pan/Tilt/Zoom Dome, 700TVL, 36X, True D/N, DWDR, Flush Mount, IP54, 24VAC, PAL

# HD-Hybrid Recorder & HD-TVI Camera Kits

The TruVision® DVR 12HD with HD-TVI cameras kit provides a complete, cost-effective, HD surveillance solution that leverages existing coax cabling. Available in 4- and 8-channel configurations, each kit includes four TruVision HD-TVI analog cameras and a HD-Hybrid recorder.

## DVR 12HD and HD-TVI Analog Camera Kit

### 4-channel HD-Hybrid DVR with 4 HD-TVI Bullet Cameras



Model	Description	HD-Hybrid Recorder	HD-TVI Cameras
TVR-1204HD-KB1	4-Ch HD-Hybrid 1TB DVR w/4 720p IR Bullet Cameras Kit	1 x TVR-1204CHD-1T 4-Channel DVR 12HD Compact, 1080p HD, 1TB Storage	4 x TVB-4401 HD-TVI Analog Bullet, 720p, 3.6mm lens, True D/N, DWDR, IR, HD-TVI output, 12VDC, IP66
TVR-1204HD-KB5	4-Ch HD-Hybrid 1TB DVR w/4 1080p IR Bullet Cameras Kit	1 x TVR-1204CHD-1T 4-Channel DVR 12HD Compact, 1080p HD, 1TB Storage	4 x TVB-4403 HD-TVI Analog Bullet, 1080p, 3.6mm lens, True D/N, WDR, IR, HD- TVI output, 12VDC, IP66
TVR-1204HD-KB6	4-Ch HD-Hybrid 2TB DVR w/4 1080p IR Bullet Cameras Kit	1 x TVR-1204CHD-2T 4-Channel DVR 12HD Compact, 1080p HD, 2TB Storage	4 x TVB-4403 HD-TVI Analog Bullet, 1080p, 3.6mm lens, True D/N, WDR, IR, HD- TVI output, 12VDC, IP66

### 8-channel HD-Hybrid DVR with 4 HD-TVI Bullet Cameras



Model	Description	HD-Hybrid Recorder	HD-TVI Cameras
TVR-1208HD-KB1	8-Ch HD-Hybrid 2TB DVR w/4 1080p IR Bullet Cameras Kit	1 x TVR-1208HD-2T 8-Channel DVR 12HD, 1080p HD, 2TB Storage	4 x TVB-4403 HD-TVI Analog Bullet, 1080p, 3.6mm lens, True D/N, WDR, IR, 960H & HD-TVI output, 12VDC, IP66

# TruVision® LED Monitors



## LED Monitors

Engineered specifically for 24/7 operation, TruVision LED color monitors feature 3D comb filters for optimum picture quality.

- Up to 3000:1 contrast for sharp, clear images
- Multiple inputs including BNC, VGA, HDMI
- 17", 19", 21.5", 27", 32" and 42" options meet a full range of video surveillance needs

### LED Monitors Comparison Table

Model	Max. Resolution	Contrast Response Time (Tr/Tf)	Panel Lamp Life	VESA™ Mount Size
TVM-1701	17", 1280 x 1024	1000:1, 5ms	50,000	100 x 100mm
TVM-1901	19", 1280 x 1024	1000:1, 5ms	50,000	100 x 100mm
TVM-2150	21.5", 1920 x 1080	1000:1, 5ms	50,000	100 x 100mm
TVM-2700	27", 1920 x 1080	1000:1, 12ms	50,000	200(100) x 100mm
TVM-3200	32", 1920 x 1080	3000:1, 6.5ms	50,000	200(400) x 200mm
TVM-4200	42", 1920 x 1080	3000:1, 6.5ms	30,000	200(400) x 200mm

### LED Monitors Ordering Information

MONITORS	
TVM-1701	TruVision LED 17" Monitor, HDMI/VGA/BNC
TVM-1901	TruVision LED 19" Monitor, HDMI/VGA/BNC
TVM-2150	TruVision LED 21.5" Full HD Monitor, HDMI/VGA/BNC
TVM-2700	TruVision LED 27" Full HD Monitor, HDMI/VGA/BNC
TVM-3200	TruVision LED 32" Full HD Monitor, HDMI/DVI/S-VIDEO/VGA/BNC
TVM-4200	TruVision LED 42" Full HD Monitor, HDMI/DVI/S-VIDEO/VGA/BNC

# TruVision® Keypads



## TVK-800 IP Keypad

Interlogix offers the TVK-800 as a full-featured IP keypad, designed to be used with the TruVision line of recorders, encoders and cameras.

- IP Keypad with LCD touch screen and 4-axis joystick

### Keypad Ordering Information

#### IP KEYPAD

TVK-800	TruVision IP Keypad, 7" LCD Touch Screen, 4-axis Joystick, 12VDC, PoE
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## KTD-405 Analog Keypad

The KTD-405 Series controller keyboards are compatible with TruVision switchers, domes and DVRs.

#### ANALOG KEYPAD

KTD-405	TruVision Three-axis Variable Speed Controller Keypad
KTD-405-2D	TruVision Two-axis Variable Speed Controller Keypad

## TruVision Navigator v6

License-free  
centralized and  
remote video  
management



# TruVision® Hard Drives and Lenses



## Hard drives

Interlogix 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-HDD-4T** TruVision NVR HDD Expansion Kit, 4TB Storage

**TVN-20XX-HDD-2T** TruVision NVR HDD Expansion Kit, 2TB Storage

**TVN-HDD-6T** TruVision NVR HDD Expansion Kit, 6TB Storage

#### RAID HDD

**TVN-HDDR-4T** TruVision NVR HDD Expansion Kit, 4TB Storage, RAID

## Lenses

Interlogix 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 MANUAL IRIS

**YV2.1X2.8SR4A-2** Megapixel 1/3" 2.8-6mm F1.3, Day/Night Manual Iris, IR Corrected

**YV2.8X2.8SA-2** Megapixel 1/3" 2.8-8mm F1.2, Manual Iris

**YV10X5HR4A-2** Megapixel 1/3" 5-50mm F1.5, Day/Night Manual Iris, IR Corrected

#### VARIFOCAL AUTO-IRIS

**YV2.1X2.8SR4A-SA2** Megapixel 1/3" 2.8-6mm F1.3, Day/Night Auto Iris DC, IR Corrected

**YV2.8X2.8SA-SA2** Megapixel 1/3" 2.8-8mm F1.2, Auto Iris DC

**YV10X5HR4A-SA2** Megapixel 1/3" 5-50mm F1.5, Day/Night Auto Iris DC, IR Corrected

# TruVision® Controllers & Power Supplies

## Camera Service Tools and Power



### TVS-C200 Coaxial Controller

An invaluable service tool, this CVBS coaxial controller provides easy remote configuration of TruVision cameras.

- Cameras support TruVision coax OSD control protocol on CVBS output
- Installed in line with the coaxial cable between camera and DVR
- Allows easy access to the camera's on-screen menu for quick configuration
- Compatible with Analog Series 2 and HD-TVI cameras
- Powered by 2 AAA batteries (not included) or 12VDC

#### Coaxial Controller Ordering Information

##### COAXIAL CONTROLLER

TVS-C200	TruVision Coax OSD Controller for TruVision Series 2 and HD-TVI Cameras
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### Power Supplies

TruVision power supplies are designed specifically for Interlogix™ cameras, delivering optimal power for robust, reliable performance.

- Universal Input Voltage (120VAC/240VAC)
- 4, 8 or 16 High-Output Channels (TVPS DC Series)
- IP66/NEMA4X Rating (TVPS AC Series)

#### Power Supplies Comparison Table

Model	Channels	Description
TVPS-01-24AC	1 AC	Single-Position Outdoor PTZ Power Supply, 120/240VAC Input, 24/28VAC Output @ 4A
TVPS-16-12DC	16 DC	Sixteen (16) Output 12VDC Power Supply, 12VDC @ 1.125 Amps (18A total)
TVPS-4-12DC	4 DC	Four (4) Output 12VDC Power Supply, 12VDC @ 1.25 Amps (5A total)
TVPS-8-12DC	8 DC	Eight (8) Output 12VDC Power Supply, 12VDC @ 1.06 Amps (8A total)

#### Power Supplies Ordering Information

##### POWER SUPPLIES

TVPS-01-24AC	Single-position Outdoor PTZ Power Supply, 120/240VAC Input, 24/28VAC Output @ 4A
TVPS-16-12DC	Sixteen (16) Output 12VDC Power Supply, 12VDC @ 1.125 Amps (18A total)
TVPS-4-12DC	Four (4) Output 12VDC Power Supply, 12VDC @ 1.25 Amps (5A total)
TVPS-8-12DC	Eight (8) Output 12VDC Power Supply, 12VDC @ 1.06 Amps (8A total)

# TruVision® Mounts



## TruVision Camera Mounts

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

- Compatible with Interlogix mini 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

TVD-BB1	TruVision Dome Back Box (used with plastic dome)
TVD-BB3	TruVision Dome Back Box (use w/TVD-6/7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor VF Domes)
TVD-BB3A	TruVision Dome Angled Back Box (use w/TVD-6/7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor VF Domes)
TVD-SNB-BB	TruVision TVD-SNB Back Box, 4-directional Conduit, Indoor & Outdoor

#### DOME CUP BASES

TVD-CB2	TruVision Dome #2 Cup Base (use w/TVD Wedge Domes; TVD-SNB; TVD-PNB)
TVD-CB3	TruVision Dome #3 Cup Base (use w/UVD and TVD Analog/HD-TVI/ IP VP Dome; TVD-SNB; TVD-PPB)
TVD-CB5A	TruVision Integrated Dome #5 Cup Base (use w/TVD IP Motor Lens Outdoor Dome; TVD-SNB; TVD-PPB)

#### MOUNT ADAPTERS

DR-RWM-AD	Adapter for TVW Wedge Dome or TVD Plastic Dome to DR & TVD-M2-WM Wall-mount Bracket
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/MotorLens IP Bullet Cameras and TVD-HD-TVI/Analog VF Bullet Cameras)
TVD-M2-FM	TruVision Flush Mount (use w/TVD IP VF Domes and TVD-6/7 Series Analog VF Domes)
TVD-M2-WM	TruVision Dome Wall Mount (use w/TVD Analog/HD-TVI/IP VF Dome; Fixed Lens HD-TVI/IP Dome and IP Wedge via DR-RWM-AD)

#### DOME BRACKET

TVD-LWB-1	TruVision Dome Bracket, L-shape, Indoor (use w/TVW Analog/IP Wedge and HD-TVI/IP Fixed Lens Dome Cameras)
TVD-LWB-2	TruVision Dome Bracket, L-shape, Indoor (use w/TVD analog/HD-TVI/IP VF Domes and IP Motor Lens Outdoor Dome)
TVD-SNB	TruVision Dome Swan Neck Bracket (use w/TVD-CB5, TVD-CB3, TVD-CB2, TVW-DVM)
TVD-PPB	TruVision Dome Pendant-Mount Bracket (use w/TVD-CB5A, TVD-CB3, TVD-CB2, TVW-DVM)

#### WEDGE CAMERA ACCESSORIES

TVW-DVM	TruVision Dual View Mount for Wedge Cameras (used with TVD-PPB, TVD-SNB)
TVW-AWB-1	TruVision Outdoor Angled Back Box for Wedge Cameras
TVW-AWB-2	TruVision Indoor Angled Back Box for Wedge Cameras
TVW-2G-AD	TruVision Double Gang Box Adapter Plate for Wedge Cameras

#### 360° CAMERA ACCESSORIES

TVF-BBM	TruVision 360° Camera Round Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor
TVF-WBM	TruVision 360° Camera Round Angled 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)

## Camera Mount Selection Guide

	Back Box	Std. 2 Gang Elec. Box	Flush Mount	Wall Mount								Pendant Mount									
Mounting Brackets			TVD-M2-FM	TVD-LWB-1	TVD-LWB-2	TVW-AWB-1	TVW-AWB-2	DR Series DR-RWM	TVD-SNB (1, 9, 10)					TVD-M2-WM (1, 9, 10)	TVD-PPB						
Threaded Pipe Mounts									TVW-AWB-1	TVW-DVM	TVD-CB2	TVD-CB3	TVD-CB5A	TVF-CBM		TVW-AWB-1	TVW-DVM	TVD-CB2	TVD-CB3	TVD-CB5A	TVF-CBM
Cat.	SKU																				
P	TVD-M5225E-3M-N	Incl.																			
	TVD-3101	2							7												
	TVD-3102	2							7												
	TVD-3103	3, 4																			
	TVD-3104	3, 4																			
	TVD-3105	2							7												
	TVD-3106	2							7												
	TVD-3201	3, 4																			
	TVD-3202	3, 4																			
	TVD-3203	Incl.																			
	TVD-3204	Incl.																			
	TVD-3205	Incl.																			
	TVF-3101	5, 6																			
	TVF-3102	5, 6																			
	TVF-3103	5, 6																			
	TVF-3104	5, 6																			
	TVW-3101	3 + 7 8							7												
	TVW-3102	3 + 7 8							7												
	TVW-3103	3 + 7 8							7												
	TVW-3104	3 + 7 8							7												
	TVW-3105	3 + 7 8							7												
	TVW-3106	3 + 7 8							7												
	TVW-3107	3 + 7 8							7												
	TVW-3108	3 + 7 8							7												
	TVW-3109	3 + 7 8							7												
	TVW-3116	3 + 7 8							7												
	TVW-3117	3 + 7 8							7												
	TVW-3118	3 + 7 8							7												
	TVW-3119																				
	TVW-3130	3 + 7 8							7												
Analog	TVD-4202	Incl.							7												
	TVD-4401	2							7												
	TVD-4402	Incl.							7												
	TVD-4403	2							7												
	TVD-4404	Incl.							7												
	TVW-4101	3 + 7 8							7												

Back Boxes, Adaptors, Corner and Pole Mounts									
Wall/Ceiling Mount					Adaptors			Corner/Pole Mount	
(1) TVD-SNB-BB Wall Mount Back Box	(2) TVD-BB1 Dome Back Box	(3) TVD-BB3 Dome Back Box	(4) TVD-BB3A Dome Angled Back Box	(5) TVF-BBM 360 Back Box	(6) TVF-WBM 360 Angled Back Box	(7) DR-RWM-AD Dome/Wedge Adapter Plate	(8) TVW-2G-AD 2 Gang Electrical Box Adapter	(9) TVD-M-CMA Corner Mount	(10) TVD-M-PMA Pole Mount



TruVision® comprehensive solutions are developed and supported by Interlogix, a leading provider of security and life safety solutions including advanced video, recording and wireless transmission technology. Through an ongoing commitment to secure and protect people, property and assets, Interlogix continues to develop innovative and reliable products that meet the demands of the modern world.

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