



# 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:

- Schools and higher education
- 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 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 7

TruVision Navigator 7 represents an ideal commercial Video Management System (VMS) that provides a flexible migration path to IP supporting both TruVision analog and H.264/H.265 IP products. It's not only easy to install and use, but also offers greater scalability to accommodate future growth.

- Supports Analog 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
- TruPortal™ Access Control integration with video/door controller linking
- IFS® network switch integration for discovery, login, configuration
- Scalable for stand-alone or larger commercial (SME) server/client applications

### TruVision Navigator 7 Ordering Information

**DOWNLOAD ONLY** <http://www.interlogix.com/navigator>

## 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 analog, 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
- 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 or Android Market



### 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 H.264/H.265 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.



### 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
- 3-year warranty

### NVR 22 Series



- H.264/H.265 support
- 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 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
- HDMI ports for local high definition viewing
- Available mobile apps for remote monitoring
- 3-year warranty

### 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
- 3-year warranty

## 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 22	NVR 22S	NVR 22Plus	NVR 70
Channels, Bandwidth & Resolution	Max. IP channels	4	8/16	8/16	8/16	16/32	128
	Total bandwidth available (Mbps) inward	20	40/80	80/160	80/160	256/320	400
	Average bandwidth per channel (Mbps) inward	5	5	10	10	10	5
	Bandwidth allocation	Fully flexible	Fully flexible	Fully flexible	Fully flexible	Fully flexible	Fully flexible
	Real-time recording	Full HD	Full HD	Full HD	Full HD	Full HD	Full HD
	HD recording per channel (fps)	30	30	25/30	25/30	25/30	30
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	2
	Redundant NIC ports	—	—	•	—	•	•
	Load balancing	—	—	•	—	•	•
	ezDDNS	•	•	•	•	•	•
	Maximum outgoing streams	64	64	128	128	128	256
	Maximum outgoing bandwidth (Mbps)	40	80/80	256	256	256	400
Storage	Max storage (TB)	2	4/6	24	24	48	96 non-RAID 64 Raid
	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
	NAS and eSATA support	—	—	•	•	•	•
Local Viewing & Controls	Front panel controls	•	•	•	•	•	—
	HDMI	•	•	1	1	2	—
	VGA	•	•	1	1	2	—
	BNC output	—	—	•	•	•	—
	Keypad support	TVK-800	TVK-800	TVK-800	TVK-800	TVK-800	TVK-800
	USB slots	2	2	3	3	3	3
General Features	Text insertion	—	—	—	—	—	•
	CD/DVD burner	via USB	via USB	via USB	via USB	via USB	—
	Reverse playback	•	•	•	•	•	•
	Alarm I/O	4/1	4/1	16/4	16/4	16/4	16/8
	Rack mountable	—	•	•	•	•	•
	Redundant Power Supplies	—	—	—	—	—	•
Software Support	TruVision® Navigator	•	•	•	•	•	•
	TVRmobile	•	•	•	•	•	•
	OnGuard®	•	•	Pending	Pending	Pending	•
	TruPortal™	•	•	Pending	Pending	Pending	Pending

# TruVision® IP Products

## Network Video Recorders Ordering Information

NVR 10	
TVN-1004CS-1T	TruVision NVR 10 Compact, 4-Channels/PoE Switch, 20Mbps, 1TB Storage
TVN-1004CS-2T	TruVision NVR 10 Compact, 4-Channels/PoE Switch, 20Mbps, 2TB Storage
TVN-1008S-2T	TruVision NVR 10, 8-Channels/PoE Switch, 40Mbps, 2TB Storage
TVN-1008S-4T	TruVision NVR 10, 8-Channels/PoE Switch, 40Mbps, 4TB Storage
TVN-1016S-3T	TruVision NVR 10, 16-Channels/8-port PoE Switch, 80Mbps, 3TB Storage
TVN-1016S-6T	TruVision NVR 10, 16-Channels/8-port PoE Switch, 80Mbps, 6TB Storage
NVR 22	
TVN-2208-4T	TruVision NVR 22, H.265, 8-Channel IP, 4TB Storage
TVN-2208-8T	TruVision NVR 22, H.265, 8-Channel IP, 8TB Storage
TVN-2208-12T	TruVision NVR 22, H.265, 8-Channel IP, 12TB Storage
TVN-2216-4T	TruVision NVR 22, H.265, 16-Channel IP, 4TB Storage
TVN-2216-8T	TruVision NVR 22, H.265, 16-Channel IP, 8TB Storage
TVN-2216-8T	TruVision NVR 22, H.265, 16-Channel IP, 16TB Storage
NVR 22S	
TVN-2208S-4T	TruVision NVR 22S, H.265, 8-Channel PoE, 4TB Storage
TVN-2208S-8T	TruVision NVR 22S, H.265, 8-Channel PoE, 8TB Storage
TVN-2208S-12T	TruVision NVR 22S, H.265, 8-Channel PoE, 12TB Storage
TVN-2216S-4T	TruVision NVR 22S, H.265, 16-Channel PoE, 4TB Storage
TVN-2216S-8T	TruVision NVR 22S, H.265, 16-Channel PoE, 8TB Storage
TVN-2216S-12T	TruVision NVR 22S, H.265, 16-Channel PoE, 12TB Storage
TVN-2216S-24T	TruVision NVR 22S, H.265, 16-Channel PoE, 24TB Storage

NVR 22P	
TVN-2216P-6T	TruVision NVR 22Plus, H.265, 16-Channel IP, 2U, 6TB Storage
TVN-2216P-12T	TruVision NVR 22Plus, H.265, 16-Channel IP, 2U, 12TB Storage
TVN-2216P-24T	TruVision NVR 22Plus, H.265, 16-Channel IP, 2U, 24TB Storage
TVN-2232P-6T	TruVision NVR 22Plus, H.265, 32-Channel IP, 2U, 6TB Storage
TVN-2232P-12T	TruVision NVR 22Plus, H.265, 32-Channel IP, 2U, 12TB Storage
TVN-2232P-24T	TruVision NVR 22Plus, H.265, 32-Channel IP, 2U, 24TB Storage
TVN-2232P-48T	TruVision NVR 22Plus, H.265, 32-Channel IP, 2U, 48TB Storage
NVR 70	
TVN-7001-16T	TruVision NVR 70, 128 Channels, 3U, 16TB
TVN-7001-32T	TruVision NVR 70, 128 Channels, 3U, 32TB
TVN-7001-48T	TruVision NVR 70, 128 Channels, 3U, 48TB
TVN-7001-64T	TruVision NVR 70, 128 Channels, 3U, 64TB
TVN-7001-96T	TruVision NVR 70, 128 Channels, 3U, 96TB
TVN-7001R-16T	TruVision NVR 70, RAID. 128 Channels, 3U, 16TB
TVN-7001R-32T	TruVision NVR 70, RAID. 128 Channels, 3U, 32TB
TVN-7001R-48T	TruVision NVR 70, RAID. 128 Channels, 3U, 48TB
TVN-7001R-64T	TruVision NVR 70, RAID. 128 Channels, 3U, 64TB
TVN-7001-FAN	TruVision NVR 70, Spare Part, Fan
TVN-7001-PS	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, extra SFP fiber ports and network and cable diagnostics.

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



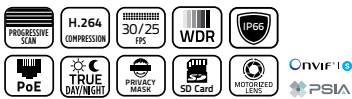
# IP Cameras

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 multiple video needs.

## 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 128GB Micro SD/SDHC/SDXC card for video playback
- 3-year warranty



### 1.3MPx and 3MPx 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.



## Intelligent IP Bullet Cameras Specifications

	Varifocal (Motorized) Lens		
	1.3MPx	3MPx	
	TVB-3201	TVB-3202	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, IR cut filter		
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)		8~32mm (motorized)
IR Range	98 ft. (30m)		164 ft. (50m)
Local Storage	Micro SD / SDHC / SDXC slot, up to 128GB		
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Face Detection, Cross Line, Intrusion Detection, De-focus Detection, Scene Change Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection, Object Counting, Audio Exception 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 Specifications

	Varifocal Lens		Varifocal (Motorized) Lens		
	1.3MPx	3MPx	1.3MPx	3MPx	
	TVD-3201	TVD-3202	TVD-3203	TVD-3204	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, IR cut filter				
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 / SDHC / SDXC slot, up to 128GB				
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Face Detection, Cross Line, Intrusion Detection, De-focus Detection, Scene Change Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection, Object Counting, Audio Exception 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 Specifications

	IP Box Camera with Audio	
	1.3MPx	3MPx
	TVC-3201	TVC-3202
		
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, IR cut filter	
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 / SDHC / SDXC slot, up to 128GB	
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Face Detection, Audio Exception Detection, Cross Line, Intrusion Detection, De-focus Detection, Scene Change Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection, Object Counting, Audio Exception 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	--	
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>TVD-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>TVD-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>TVD-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>TVD-3204</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, NTSC

<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 BOX CAMERAS	
NTSC	
<b>TVC-3201</b>	TruVision® IP Box Camera, 1.3MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, SD/SHDC 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/SHDC 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/SHDC 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/SHDC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC, PAL

# TruVision® IP Products

## IP Open Standards Cameras



### Series 3 Bullet IR Cameras



- Integrated Motion Detection, Tamper proof and Privacy masking
- Advanced Cross line and Intrusion detection
- Edge recording supports up to 128GB Micro SD/SDHC/SDXC for video playback (on select models, card not included)
- External alarm I/O support (Varifocal lens models only)
- External audio I/O support and auxiliary power output (12VDC, 50mA) (Varifocal lens models only)
- 3-year warranty



### Series 3 Dome IR Cameras



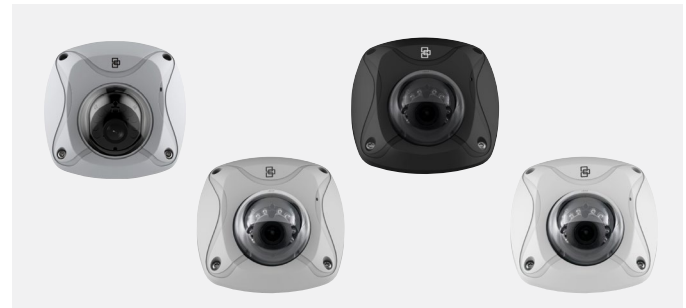
- Advanced Cross line and Intrusion detection
- Edge recording supports up to 128GB Micro SD/SDHC/SDXC for video playback (card not included)
- External alarm I/O support
- External audio I/O support and auxiliary power output (12VDC, 50mA)
- IK8 or IK10 Vandal rating
- 3-year warranty



### Series 3 Turret IR Cameras



- Integrated Motion Detection, Tamper proof and Privacy masking
- Advanced Cross line and Intrusion detection
- Housing color options - gray, white or black (on select models)
- 3-year warranty







### Series 3 Wedge IR Cameras







- Low profile format
- Edge recording up to 128GB for video playback (card not included)
- External alarm I/O support
- External audio I/O support and built-in Mic
- IK8 Vandal rating
- 3-year warranty








### Series 3 Bullet Cameras Specifications

	Fixed Lens		Varifocal Lens	
	2MPx	4MPx	2MPx	4MPx
	TVB-5301	TVB-5302	TVB-5303	TVB-5304
				
Sensor	1 / 3" Progressive Scan, CMOS			
Resolution	1920(H) x 1080(V)	2688(H) x 1520(V)	1920(H) x 1080(V)	2688(H) x 1520(V)
Multiple Streaming	Dual			
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.264 / MJPEG			
Minimum Illumination	0.01 lux @ f1.2 (AGC On); 0 lux with IR On			
Lens	4mm @ f2.0		2.8-12mm @ f1.4	
IR Range	82 ft. (25m)		98 ft. (30m)	
Local Storage	--		Micro SD / SDHC / SDXC slot, up to 128GB	
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Dual VCA, Intrusion Detection, Cross Line, Hallway View, ROI			
I/O	--		1 input / 1 output	
Audio	--		1 Mic-in (line level) / 1 output	
Standard & Integration	ONVIF (Profile G/S), PSIA, CGI			
Voltage Input	12VDC / PoE (IEEE 802.3af)			
Auxiliary Power	--		12 VDC / 50mA	
Operating Temp	-22°F~-140°F (-30°C~60°C)			
Environmental Rating	IP66			
Certification	FCC, CE, UL, WEEE, RoHS, REACH			






### Series 3 IP Dome Cameras Specifications

	Fixed Lens			
	2MPx	4MPx	2MPx	4MPx
	TVD-5301	TVD-5302	TVD-5303	TVD-5304
				
Sensor	1 / 3" Progressive Scan, CMOS			
Resolution	1920(H) x 1080(V)	2688(H) x 1520(V)	1920(H) x 1080(V)	2688(H) x 1520(V)
Multiple Streaming	Dual			
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.264 / MJPEG			
Minimum Illumination	0.01 lux @ f1.2 (AGC On); 0 lux with IR On			
Lens	2.8mm @ f2.0		2.8-12mm @ f1.4	
Video Output	1 - 75 ohm / BNC (Composite NTSC/PAL)			
IR Range	49 ft. (15m)		98 ft. (30m)	
Local Storage	Micro SD / SDHC / SDXC slot, up to 128GB			
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Dual VCA, Intrusion Detection, Cross Line, Hallway View, ROI			
I/O	1 input / 1 output			
Audio	1 Mic-in (line level) / 1 output			
Standard & Integration	ONVIF (Profile G/S), PSIA, CGI			
Voltage Input	12VDC / PoE (IEEE 802.3af)			
Auxiliary Power	12 VDC / 50mA			
Operating Temp	-22°F~-140°F (-30°C~60°C)			
Environmental Rating	IP66			
Vandal Rating	IK8		IK10	
Certification	FCC, CE, UL, WEEE, RoHS, REACH			

## Series 3 Turret Cameras Specifications

	Fixed Lens						
	2MPx			4MPx			
	TVT-5301	TVT-5302	TVT-5303	TVT-5304	TVT-5305	TVT-5306	TVT-5307
							
Sensor	1 / 3" Progressive Scan, CMOS						
Resolution	1920(H) x 1080(V)			2688(H) x 1520(V)			
Multiple Streaming	Dual						
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.264 / MJPEG						
Minimum Illumination	0.01 lux @ f1.2 (AGC On); 0 lux with IR On						
Lens	2.8mm @ f2.0					4mm @ f2.0	
IR Range	98 ft. (30m)						
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Dual VCA, Intrusion Detection, Cross Line, Hallway View, ROI						
Standard & Integration	ONVIF (Profile G/S), PSIA, CGI						
Voltage Input	12VDC / PoE (IEEE 802.3af)						
Operating Temp	-22°F~-140°F (-30°C~60°C)						
Environmental Rating	IP66						
Certification	FCC, CE, UL, WEEE, RoHS, REACH						

## Series 3 IP Dome Cameras Specifications

	Fixed Lens				
	2MPx				4MPx
	TVW-5301	TVW-5302	TVW-5303	TVW-5304	TVW-5305
					
Sensor	1 / 3" Progressive Scan, CMOS				
Resolution	1920(H) x 1080(V)				2688(H) x 1520(V)
Multiple Streaming	Dual				
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.264 / MJPEG				
Minimum Illumination	0.01 lux @ f1.2 (AGC On)	0.01 lux @ f1.2 (AGC On); 0 lux with IR On			
Lens	2mm @ f2.0	2.8mm @ f2.0			
IR Range	--	33 ft. (10m)			
Local Storage	Micro SD / SDHC / SDXC slot, up to 128GB				
Intelligence	Motion Detection, Tamper Proof, Privacy Mask, Dual VCA, Intrusion Detection, Cross Line, Hallway View, ROI				
I/O	1 input / 1 output				
Audio	1 Mic-in (line level) / 1 output				
Standard & Integration	ONVIF (Profile G/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, WEEE, RoHS, REACH				

## Series 3 IP Cameras Ordering Information Specifications

2MPX AND 4MPX H.264 IP BULLET CAMERAS	
<b>TVB-5301</b>	TruVision IP Fixed Lens Bullet Camera, 2MPx, 4mm, True D/N, WDR, 25m IR, IP66, PoE (802.3-af)/12VDC
<b>TVB-5302</b>	TruVision IP Fixed Lens Bullet Camera, 4MPx, 4mm, True D/N, WDR, 25m IR, IP66, PoE (802.3-af)/12VDC
<b>TVB-5303</b>	TruVision IP VF Bullet Camera, 2MPx, 2.8~12mm, True D/N, WDR, 30m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, IP66, PoE (802.3-af)/12VDC, Aux. Output 12VDC/50mA
<b>TVB-5304</b>	TruVision IP VF Bullet Camera, 4MPx, 2.8~12mm, True D/N, WDR, 30m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, IP66, PoE (802.3-af)/12VDC, Aux. Output 12VDC/50mA
2MPX AND 4MPX H.264 IP DOME CAMERAS	
<b>TVD-5301</b>	TruVision IP Fixed Lens Dome Camera, 2MPx, 2.8mm, True D/N, WDR, 15m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, IP66, IK8, PoE (802.3-af)/12VDC, BNC, Aux. Output 12VDC/50mA
<b>TVD-5302</b>	TruVision IP Fixed Lens Dome Camera, 4MPx, 2.8mm, True D/N, WDR, 15m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, IP66, IK8, PoE (802.3-af)/12VDC, BNC, Aux. Output 12VDC/50mA
<b>TVD-5303</b>	TruVision IP VF Lens Dome Camera, 2MPx, 2.8~12mm, True D/N, WDR, 30m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, IP66, IK10, PoE (802.3-af)/12VDC, BNC, Aux. Output 12VDC/50mA
<b>TVD-5304</b>	TruVision IP VF Lens Dome Camera, 4MPx, 2.8~12mm, True D/N, WDR, 30m IR, Audio, Alarm, Micro SD/SDHC/SDXC Slot, IP66, IK10, PoE (802.3-af)/12VDC, BNC, Aux. Output 12VDC/50mA

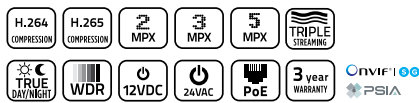
2MPX AND 4MPX H.264 IP TURRET CAMERAS	
<b>TVT-5301</b>	TruVision IR Fixed Lens Turret Camera, 2MPx, 2.8mm, True D/N, WDR, 30m IR, PoE (802.3-af)/12VDC, IP66, Gray
<b>TVT-5302</b>	TruVision IR Fixed Lens Turret Camera, 2MPx, 2.8mm, True D/N, WDR, 30m IR, PoE (802.3-af)/12VDC, IP66, White
<b>TVT-5303</b>	TruVision IR Fixed Lens Turret Camera, 2MPx, 2.8mm, True D/N, WDR, 30m IR, PoE (802.3-af)/12VDC, IP66, Black
<b>TVT-5304</b>	TruVision IR Fixed Lens Turret Camera, 4MPx, 2.8mm, True D/N, WDR, 30m IR, PoE (802.3-af)/12VDC, IP66, Gray
<b>TVT-5305</b>	TruVision IR Fixed Lens Turret Camera, 4MPx, 2.8mm, True D/N, WDR, 30m IR, PoE (802.3-af)/12VDC, IP66, White
<b>TVT-5306</b>	TruVision IR Fixed Lens Turret Camera, 4MPx, 2.8mm, True D/N, WDR, 30m IR, PoE (802.3-af)/12VDC, IP66, Black
<b>TVT-5307</b>	TruVision IR Fixed Lens Turret Camera, 4MPx, 4mm, True D/N, WDR, 30m IR, PoE (802.3-af)/12VDC, IP66, White
2MPX AND 4MPX H.264 IP WEDGE CAMERAS	
<b>TVW-5301</b>	TruVision Wedge Fixed Lens Camera, 2MPx, 2mm, True D/N, WDR, Built-in Mic, Audio, Alarm, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP66, IK8, Gray
<b>TVW-5302</b>	TruVision IR Wedge Fixed Lens Camera, 2MPx, 2.8mm, True D/N, WDR, 10m IR, Built-in Mic, Audio, Alarm, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP66, IK8, Gray
<b>TVW-5303</b>	TruVision IR Wedge Fixed Lens Camera, 2MPx, 2.8mm, True D/N, WDR, 10m IR, Built-in Mic, Audio, Alarm, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP66, IK8, White
<b>TVW-5304</b>	TruVision IR Wedge Fixed Lens Camera, 2MPx, 2.8mm, True D/N, WDR, 10m IR, Built-in Mic, Audio, Alarm, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP66, IK8, Black
<b>TVW-5305</b>	TruVision IR Wedge Fixed Lens Camera, 4MPx, 2.8mm, True D/N, WDR, 10m IR, Built-in Mic, Audio, Alarm, Micro SD/SDHC/SDXC Slot, PoE (802.3-af)/12VDC, IP66, IK8, Gray

# TruVision® IP Products

## IP Open Standards Cameras



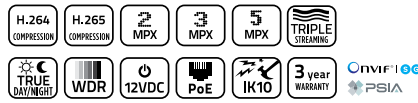
### Series 4 H.265 IP Box Cameras



- Intelligence features including face detection, cross line detection, object removal, object left behind, object counting
- Easily controlled alarm input and output notifications
- Edge recording on up to 128GB for video playback (card not included)
- External analog BNC video out connection
- 3-year warranty



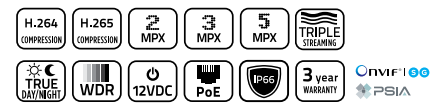
### Series 4 H.265 IP Dome Cameras



- Intelligence features including face detection, cross line detection, object removal, object left behind, object counting
- Alarm inputs and output provide easy notification and control of events
- Edge recording on up to 128GB for video playback (card not included)
- Analog BNC video out connection
- Auxiliary power output (12VDC/50mA @ 12VDC line level)
- 3-year warranty






### Series 4 H.265 IP Bullet Cameras




- Motorized varifocal lens technology that provides remote autofocus
- Long zoom and IR range
- Intelligence features including face detection, cross line detection, object removal, object left behind, object counting
- Edge recording on up to 128GB for video playback (card not included)
- Auxiliary power output (12VDC/50mA @ 12VDC line level)
- 3-year warranty






## Series 4 Box Cameras Specifications

	IP Box Camera (with Audio)		
	2MPx TVC-5401	3MPx TVC-5402	5MPx TVC-5403
			
Sensor	1 / 1.8" Progressive Scan, CMOS	1 / 2.8" Progressive Scan, CMOS	1 / 1.8" Progressive Scan, CMOS
Resolution	1920(H) x 1080(V)	2048(H) x 1536(V)	2592(H) x 1944(V)
Multiple Streaming	Triple		
Day/Night	True D/N, IR cut filter		
Wide Dynamic Range	WDR (120 dB)		DWDR
Digital S/N Ratio	52 dB (AGC Off)		
IP Compression/Standard	H.264 / H.265 / MJPEG		
Minimum Illumination	Color: 0.002 lux @ f1.2 (AGC On); B/W: 0.0002 lux @ f1.2 (AGC On)	Color: 0.008 lux @ f1.2 (AGC On); B/W: 0.0005 lux @ f1.2 (AGC On)	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0.001 lux @ f1.2 (AGC On)
Lens	C/CS (with auto iris)		
Video Output	1 - 75 ohm / BNC (Composite NTSC/PAL)		
Local Storage	Micro SD / SDHC / SDXC slot, up to 128GB		
Intelligence	Face Detection, Audio Exception Detection, Intrusion Detection, De-focus Detection, Region of Interest (ROI), Electronic Image Stabilization (EIS), Defog, Scene Change Detection, Cross Line Detection, Advanced Motion Detection, Region Entrance Detection, Region Exit Detection, Object Removal, Object Left Behind, Object Counting		
I/O	1 input / 1 output		
Audio	Input: Audio in / Mic in (line level); Output: Audio out (line level)		
Standard & Integration	ONVIF (Profile G/S), PSIA, CGI		
Voltage Input	12VDC / 24VAC / PoE (IEEE 802.3af)		
Operating Temp	-22°F~-140°F (-30°C~60°C)		
Environmental Rating	--		
Certification	FCC, CE, UL, WEEE, RoHS, REACH		






## Series 4 Indoor Dome Cameras Specifications

	Indoor Dome Cameras (Varifocal Motorized Lens)		
	2MPx TVD-5401	3MPx TVD-5402	5MPx TVD-5403
			
Sensor	1 / 1.8" Progressive Scan, CMOS		
Resolution	1920(H) x 1080(V)	2048(H) x 1536(V)	2592(H) x 1944(V)
Multiple Streaming	Triple		
Day/Night	True D/N, IR cut filter		
Wide Dynamic Range	WDR (120 dB)		DWDR
Digital S/N Ratio	52 dB (AGC Off)		
IP Compression/Standard	H.264 / H.265 / MJPEG		
Minimum Illumination	Color: 0.002 lux @ f1.2 (AGC On); 0 lux with IR On	Color: 0.008 lux @ f1.2 (AGC On); 0 lux with IR On	Color: 0.01 lux @ f1.2 (AGC On); 0 lux with IR On
Lens Type	2.8~12mm @ f1.2 (motorized)		
Video Output	1 - 75 ohm / BNC (Composite NTSC/PAL)		
IR Range	98 ft. (30m)		
Local Storage	Micro SD / SDHC / SDXC slot, up to 128GB		
Intelligence	Face Detection, Audio Exception Detection, Intrusion Detection, De-focus Detection, Region of Interest (ROI), Electronic Image Stabilization (EIS), Defog, Scene Change Detection, Cross Line Detection, Advanced Motion Detection, Region Entrance Detection, Region Exit Detection, Object Removal, Object Left Behind, Object Counting		
I/O	1 input / 1 output		
Audio	Audio in (mic in - line level) / Audio out		
Standard & Integration	ONVIF (Profile G/S), PSIA, CGI		
Voltage Input	12VDC / PoE (IEEE 802.3af)		
Auxiliary Power	12VDC / 50mA @ 12VDC Line level		
Operating Temp	-22°F~-140°F (-30°C~-60°C)		
Vandal Rating	IK10		
Certification	FCC, CE, UL, WEEE, RoHS, REACH		

## Series 4 Outdoor Dome Cameras Specifications

	Outdoor Dome Cameras (Varifocal Motorized Lens)				
	2MPx		3MPx		5MPx
	TVD-5404	TVD-5405	TVD-5406	TVD-5407	TVD-5408
					
Sensor	1 / 1.8" Progressive Scan, CMOS		1 / 2.8" Progressive Scan, CMOS		1 / 1.8" Progressive Scan, CMOS
Resolution	1920(H) x 1080(V)		2048(H) x 1536(V)		2592(H) x 1944(V)
Multiple Streaming	Triple				
Day/Night	True D/N, IR cut filter				
Wide Dynamic Range	WDR (120 dB)				DWDR
Digital S/N Ratio	50 dB (AGC Off)				
IP Compression/Standard	H.264 / H.265 / MJPEG				
Minimum Illumination	Color: 0.002 lux @ f1.2 (AGC On); 0 lux with IR On		Color: 0.008 lux @ f1.2 (AGC On); 0 lux with IR On		Color: 0.01 lux @ f1.2 (AGC On); 0 lux with IR On
Lens	2.8~12mm @ f1.2 (motorized)	8~32mm @ f1.2 (motorized)	2.8~12mm @ f1.2 (motorized)	8~32mm @ f1.2 (motorized)	2.8~12mm @ f1.2 (motorized)
Video Output	1 - 75 ohm / BNC (Composite NTSC/PAL)				
IR Range	98 ft. (30m)	164 ft. (50m)	98 ft. (30m)	164 ft. (50m)	98 ft. (30m)
Local Storage	Micro SD / SDHC / SDXC slot, up to 128GB				
Intelligence	Face Detection, Audio Exception Detection, Intrusion Detection, De-focus Detection, Region of Interest (ROI), Electronic Image Stabilization (EIS), Defog, Scene Change Detection, Cross Line Detection, Advanced Motion Detection, Region Entrance Detection, Region Exit Detection, Object Removal, Object Left Behind, Object Counting				
I/O	1 input / 1 output				
Audio	Audio in (mic in - line level) / Audio out				
Standard & Integration	ONVIF (Profile G/S), PSIA, CGI				
Voltage Input	12VDC / 24VAC / PoE (IEEE 802.3af / 802.3 at w/Heater)				
Auxiliary Power	12VDC / 50mA @ 12VDC Line level				
Operating Temp	-40°F~-140°F (-40°C~-60°C) with Heater On				
Environmental Rating	IP66				
Vandal Rating	IK10				
Certification	FCC, CE, UL, WEEE, RoHS, REACH				

## Series 4 Bullet Cameras Specifications

	Varifocal (Motorized) Lens				
	2MPx		3MPx		5MPx
	TVB-5401	TVB-5402	TVB-5403	TVB-5404	TVB-5405
					
Sensor	1 / 1.8" Progressive Scan, CMOS		1 / 2.8" Progressive Scan, CMOS		1 / 1.8" Progressive Scan, CMOS
Resolution	1920(H) x 1080(V)		2048(H) x 1536(V)		2592(H) x 1944(V)
Multiple Streaming	Triple				
Day/Night	True D/N, IR cut filter				
Wide Dynamic Range	WDR (120 dB)				
Digital S/N Ratio	52 dB (AGC off)				
IP Compression/Standard	H.264 / H.265 / MJPEG				
Minimum Illumination	Color: 0.002 lux @ f1.2 (AGC On); 0 lux with IR On		Color: 0.008 lux @ f1.2 (AGC On); 0 lux with IR On		Color: 0.01 lux @ f1.2 (AGC On); 0 lux with IR On
Lens	2.8~12mm @f1.2 (motorized)	8~32mm @f1.2 (motorized)	2.8~12mm @f1.2 (motorized)	8~32mm @f1.2 (motorized)	2.8~12mm @f1.2 (motorized)
IR Range	164 ft. (50m)	262 ft. (80m)	164 ft. (50m)	262 ft. (80m)	164 ft. (50m)
Local Storage	Micro SD / SDHC / SDXC slot, up to 128GB				
Intelligence	Face Detection, Audio Exception Detection, Intrusion Detection, De-focus Detection, Region of Interest (ROI), Electronic Image Stabilization (EIS), Defog, Scene Change Detection, Cross Line Detection, Advanced Motion Detection, Region Entrance Detection, Region Exit Detection, Object Removal, Object Left Behind, Object Counting				
I/O	1 input / 1 output				
Audio	Audio in (mic in - line level) / Audio out				
Standard & Integration	ONVIF (Profile G/S), PSIA, CGI				
Voltage Input	12VDC / PoE (IEEE 802.3af / 802.3 at w/Heater)				
Auxiliary Power	12VDC / 50mA @ 12VDC Line level				
Operating Temp	-40°F ~ 140°F (-40°C ~60°C) with heater on				
Environmental Rating	IP66				
Certification	FCC, CE, UL, WEEE, RoHS, REACH				

## Series 4 IP Cameras Ordering Information

2MPx, 3MPx AND 5 MPx H.264/H.265 IP BULLET CAMERAS	
<b>TVB-5401</b>	TruVision® 2MPx Low Light IP Bullet Camera, H.265/H.264, 2.0MPx, 2.8~12mm Motorized Lens, Super Low Light, WDR, True D/N, 50m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater IP66
<b>TVB-5402</b>	TruVision 2MPx Low Light IP Bullet Camera, H.265/H.264, 2.0MPx, 8~32mm Motorized Lens, Super Low Light, WDR, True D/N, 80m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66
<b>TVB-5403</b>	TruVision 3MPx IP Bullet Camera, H.265/H.264, 3.0MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 50m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66
<b>TVB-5404</b>	TruVision 3MPx IP Bullet Camera, H.265/H.264, 3.0MPx, 8~32mm Motorized Lens, WDR, True D/N, 80m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66
<b>TVB-5405</b>	TruVision 5MPx IP Bullet Camera, H.265/H.264, 5.0MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 50m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Heater, IP66
2MPx, 3MPx AND 5 MPx H.264/H.265 IP DOME CAMERAS	
<b>TVD-5401</b>	TruVision 2MPx Low Light IP Mini Dome Camera, H.265/H.264, 2.0MPx, 2.8~12mm Motorized Lens, Super Low Light, WDR, True D/N, 30m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Indoor, IK10
<b>TVD-5402</b>	TruVision 3MPx IP Mini Dome Camera, H.265/H.264, 3.0MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 30m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Indoor, IK10
<b>TVD-5403</b>	TruVision 5MPx IP Mini Dome Camera, H.265/H.264, 5.0MPx, 2.8~12mm Motorized Lens, DWDR, True D/N, 30m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC, Indoor, IK10
<b>TVD-5404</b>	TruVision 2MPx Low Light IP Outdoor Dome Camera, H.265/H.264, 2.0MPx, 2.8~12mm Motorized Lens, Super Low Light, WDR, True D/N, 30m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, 12VDC/24VAC/PoE (802.3-af/802.3at with heater), Heater, IP66, IK10

<b>TVD-5405</b>	TruVision 2MPx Low Light IP Outdoor Dome Camera, H.265/H.264, 2.0MPx, 8~32mm Motorized Lens, Super Low Light, WDR, True D/N, 50m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, 12VDC/24VAC/PoE (802.3-af/802.3at with heater), Heater, IP66, IK10
<b>TVD-5406</b>	TruVision 3MPx Outdoor Dome Camera, H.265/H.264, 3.0MPx, 2.8~12mm Motorized Lens, WDR, True D/N, 30m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, 12VDC/24VAC/PoE (802.3-af/802.3at with heater), Heater, IP66, IK10
<b>TVD-5407</b>	TruVision 3MPx Outdoor Dome Camera, H.265/H.264, 3.0MPx, 8~32mm Motorized Lens, WDR, True D/N, 50m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, 12VDC/24VAC/PoE (802.3-af/802.3at with heater), Heater, IP66, IK10
<b>TVD-5408</b>	TruVision 5MPx Outdoor Dome Camera, H.265/H.264, 5.0MPx, 2.8~12mm Motorized Lens, DWDR, True D/N, 30m IR, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, 12VDC/24VAC/PoE (802.3-af/802.3at with heater), Heater, IP66, IK10
2MPx, 3MPx AND 5 MPx H.264/H.265 IP BOX CAMERAS	
<b>TVC-5401</b>	TruVision 2MPx Low Light IP Box Camera, H.265/H.264, 2.0MPx, Super Low Light, WDR, True D/N, Auto Back Focus, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC
<b>TVC-5402</b>	TruVision 3MPx IP Box Camera, H.265/H.264, 3.0MPx, WDR, True D/N, Auto Back Focus, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC
<b>TVC-5403</b>	TruVision 5MPx IP Box Camera, H.265/H.264, 5.0MPx, DWDR, True D/N, Auto Back Focus, Audio, Alarm, BNC, Micro SD/SDHC Slot, Intelligence, PoE (802.3-af)/12VDC/24VAC

## IP Megapixel PTZ Cameras



### IR IP Megapixel PTZ Dome Camera




- 1/3-inch progressive scan CMOS
- 2MPx Full HD sensor
- 30x optical (16x digital)
- True Day/Night
- Up to 492 ft. (150m) IR
- 3-year warranty

### IP Megapixel PTZ Cameras Ordering Information

IR IP MEGAPIXEL PTZ CAMERAS	
NTSC	
<b>TVP-3122</b>	TruVision 2MPx Full HD Pendant 30X, IR PTZ Dome
PAL	
<b>TVP-1122</b>	TruVision 2MPx Full HD Pendant 30X, IR PTZ Dome

### IR IP Megapixel PTZ Dome Camera Specifications

	Indoor/Outdoor Wall/Pendant Mount 2MPx <b>TVP-3122</b>
	
Sensor	1/3" Progressive Scan, CMOS
Resolution	1920(H) x 1080(V)
Multiple Streaming	Triple
Day/Night	True D/N, IR cut filter
Wide Dynamic Range	DWDR
Digital S/N Ratio	55 dB
IP Compression/Standard	H.264 / MPEG4 / MJPEG
Minimum Illumination	Color: 0.03 lux @ f1.6, 1/30 s, 50 IRE (AGC On); B/W: 0 lux with IR On
Lens	4.3~129mm (f1.6~f5.0)
Zoom Range	30X Optical / 16X Digital
Pan Range and Speed	Range: 360° endless Manual Speed: 0.1°-160°/s; Preset Speed: 240°/s
Tilt Range and Speed	Range: -5°-90° Manual Speed: 0.1°-120°/s Preset Speed: 200°/s
Image Flip	Auto Flip
Video Output	1 - 75 ohm / BNC (Composite NTSC/PAL)
IR Range	up to 492 ft. (150m)
Presets	256
Local Storage	Micro SD / SDHC / SDXC Slot, up to 64GB
Intelligence	Motion Detection, Defog, Privacy Mask
I/O	7 inputs / 2 outputs
Audio	2-way
Standard & Integration	ONVIF (Profile S), PSIA, CGI
Voltage Input	24VAC / PoE+ (IEEE 802.3at)
Operating Temp	24VAC: -40°F~-149°F (40°C~65°C); PoE+: -22°F~-149°F (30°C~65°C);
Environmental Rating	IP66
Certification	FCC, CE, UL, C-Tick, REACH, RoHS, WEEE






## IP Megapixel PTZ Dome Cameras



- Progressive-scan 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 Specifications

	Outdoor		Indoor	
	Wall/Pendant Mount	Surface Mount	Surface Mount	Flush Mount
	2MPx	2MPx	2MPx	2MPx
	TVP-3104	TVP-3105	TVP-3106	
				
Sensor	1/3" Progressive Scan, CMOS			
Resolution	1920(H) x 1080(V) @ 30fps			
Multiple Streaming	Triple			
Day/Night	True D/N, IR cut filter			
Wide Dynamic Range	DWDR			
Digital Noise Reduction	3D			
Digital S/N Ratio	50 dB			
Electronic Shutter	NTSC: 1/30 - 1/10,000 s; PAL: 1/25 - 1/10,000 s			
IP Compression/Standard	H.264 / MPEG4 / MJPEG			
Minimum Illumination	Color: 0.05 lux @ f1.6 (AGC On); B/W: 0.005 lux @ f1.6 (AGC On)			
Lens	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			

### IP Megapixel PTZ Cameras Ordering Information

IP MEGAPIXEL PTZ CAMERAS	
NTSC	
TVP-3104	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
TVP-3105	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
TVP-3106	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	
TVP-1104	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
TVP-1105	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
TVP-1106	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

## Specialty IP Open Standards Cameras



### 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

### Specialty IP Cameras Ordering Information

360° INDOOR/OUTDOOR DOME CAMERAS	
<b>NTSC</b>	
<b>TVF-3101</b>	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
<b>TVF-3102</b>	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
<b>TVF-3103</b>	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
<b>TVF-3104</b>	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
<b>PAL</b>	
<b>TVF-1101</b>	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
<b>TVF-1102</b>	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
<b>TVF-1103</b>	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
<b>TVF-1104</b>	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)/ 2VDC, IP66, IK10

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

	Indoor		Outdoor	
	3MPx TVF-3101	6MPx TVF-3103	3MPx TVF-3102	6MPx TVF-3104
				
Sensor	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	
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, IR cut filter			
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 @ f 2.0 (AGC On); 0 lux with IR On	0.05 lux @ f1.2 (AGC On); 0.3 lux @ f 2.8 (AGC On); 0 lux with IR On	0.1 lux @ f1.2 (AGC On); 0.28 lux @ f 2.0 (AGC On); 0 lux with IR On	0.05 lux @ f1.2 (AGC On); 0.3 lux @ f 2.8 (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	up to 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 Open Standards Cameras



### 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 / SDHC / SDXC slot, up to 128GB
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



### 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 x 0.98 in. (37 x 26 x 25mm)	1.02 x 2 in. (26 x 51mm)	1.02 x 1.58 in. (26 x 40mm)	1.46 x 1.02 x 0.98 in. (37 x 26 x 25mm)	1.02 x 2 in. (26 x 51mm)	1.92 x 1.21 x 1.24 in. (48.7 x 30.7 x 31.5mm)	1.02 x 2 in. (26 x 51mm)	1.92 x 1.21 x 1.24 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)									

### Specialty IP Products Ordering Information

1.3MPx COVERT IP CAMERA*	
NTSC	
<b>TVA-3101</b>	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	
<b>TVA-1101</b>	TruVision Covert Camera, 1.3MPx, WDR, Digital D/N, Single Lens, Audio, Alarm, SD/SHDC/SDXC Slot, Intelligence, PoE (802.3-af)/12VDC, PAL

\*Lenses ordered separately

#### COVERT LENS OPTIONS

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

## Specialty IP Open Standards Cameras



### 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

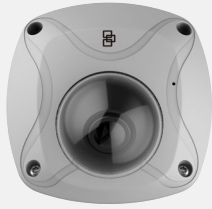
### Specialty IP Cameras Ordering Information

1.3MPX AND 3MPX IP WI-FI® WEDGE IR CAMERAS	
<b>NTSC</b>	
<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
<b>PAL</b>	
<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
	<b>TVW-3103</b>	<b>TVW-3104</b>	<b>TVW-3105</b>	<b>TVW-3106</b>	<b>TVW-3116</b>
					
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, IR cut filter				
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 / SDHC slot, up to 128GB				
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

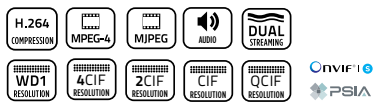
### Wi-Fi® Panoramic Wedge Camera Comparison Table

	3MPx Gray TVW-3130
	
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 / SDHC / SDXC slot, up to 128GB
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

## Encoders and Decoders

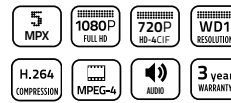


### TVE Series IP Video Encoders



- 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

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

#### DECODER

<b>TVE-DEC11</b>	TruVision IP Video Decoder to BNC, HDMI and VGA Output, Audio, Alarm, 12VDC
------------------	---

## 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)

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



Model	Description	NVR	Cameras
<b>TVN-1004-KB4</b>	<b>4-Channel Kit w/4 2MPx IR Bullet (4mm lens) Cameras Kit</b>	<b>1 x TVN-1004cS-1TB</b> 4-Channel NVR 10 Compact w/Built-in 4-Port PoE Switch, 1TB Storage	<b>4 x TVB-5301</b> 2MPx Open Standards IR Bullet (4mm lens) Cameras

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



Model	Description	NVR	Cameras
<b>TVN-1004-KW4</b>	<b>4-Channel Kit w/4 2MPx Wedge Cameras Kit</b>	<b>1 x TVN-1004cS-2TB</b> 4-Channel NVR 10 Compact w/Built-in 4-Port PoE Switch, 2TB Storage	<b>4 x TVW-5302</b> 2MPx Open Standards Low-profile Mini Dome IR Wedge (2.8mm lens) Cameras

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



Model	Description	NVR	Cameras
<b>TVN-1004-KT1</b>	<b>4-Channel Kit w/4 2MPx Turret Cameras Kit</b>	<b>1 x TVN-1004cS-1TB</b> 4-Channel NVR 10 Compact w/Built-in 4-Port PoE Switch, 1TB Storage	<b>4 x TVT-5301</b> 2MPx Open Standards IR Turret (2.8mm lens) Cameras

## NVR 10 and Megapixel Camera Kit (8-channel)

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



Model	Description	NVR	Cameras
<b>TVN-1008-KB4</b>	<b>8-Channel Kit w/4 2MPx IR Bullet (4mm lens) Cameras Kit</b>	<b>1 x TVN-1008S-2TB</b> 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	<b>4 x TVB-5301</b> 2MPx Open Standards IR Bullet (4mm lens) Cameras

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



Model	Description	NVR	Cameras
<b>TVN-1008-KW4</b>	<b>8-Channel Kit w/4 2MPx Wedge Cameras Kit</b>	<b>1 x TVN-1008S-2TB</b> 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	<b>4 x TVW-5302</b> 2MPx Open Standards Low-profile Mini Dome IR Wedge (2.8mm lens) Cameras

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



Model	Description	NVR	Cameras
<b>TVN-1008-KT1</b>	<b>8-Channel Kit w/4 2MPx Turret Cameras Kit</b>	<b>1 x TVN-1008S-2TB</b> 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	<b>4 x TVT-5301</b> 2MPx Open Standards IR Turret (2.8mm lens) Cameras

### 8-channel NVR with 6 IR Wedge IP Cameras



Model	Description	NVR	Cameras
<b>TVN-1008-KW5</b>	<b>8-Channel Kit w/6 2MPx Wedge Cameras Kit</b>	<b>1 x TVN-1008S-2TB</b> 8-Channel NVR 10 w/Built-in 8-Port PoE Switch, 2TB Storage	<b>6 x TVW-5302</b> 2MPx Open Standards Low-profile Mini Dome IR Wedge (2.8mm lens) Cameras

DESIGNED  
TO MEET THE  
MOST DEMANDING  
STANDARDS.

**YOURS.**



## HD-Hybrid Digital Video Recorders

TruVision's HD-TVI technology delivers up to 5MPx 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 Resolution Hybrid Recorder



High Definition Hybrid Recorder

### DVR 15HD Series



- 4-, 8- or 16-channel real-time recording
- Connect standard, HD-TVI or IP cameras
- TVI over coax technology supports up to 5MPx resolution
- High definition TVI cameras can be used with standard RG59 coax cable
- Swap analog channels for IP cameras
- Up to 12TB 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



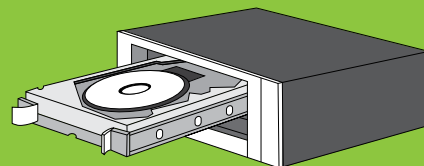
### Analog to IP Migration

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 5MPx 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 15cHD	DVR 15HD	DVR 44HD	
<b>Channels &amp; Performance</b>	Analog channels	4	8/16	8/16
	Maximum IP channels	4	8/16	8/16
	Real-time recording	Full HD 1080p	Full HD 1080p	Full HD 1080p
	Max resolution analog / IP	5MPx / 4MPx	5MPx / 4MPx	1080p / 2MPx
	Audio channels analog	4	4	4
<b>Network &amp; Streaming</b>	Ethernet ports	(1) 10/100 Mbs	(1) 10/100/1000 Mbs	(1) 10/100/1000 Mbs
	DDNS	•	•	•
	Maximum outgoing video streams	128	128	128
	Maximum in/out combined bandwidth (Mbps)	96	128	200
	ONVIF	•	•	•
<b>Storage</b>	Max storage (TB)	4	8/12	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	Event Only	TVK-800	•
	Bidirectional audio	•	•	•
	Alarm input/output	4/1	8-ch: 8/4; 16-ch: 16/4	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	1U	1.5U
	Rack mountable	—	•	•
<b>Software Support</b>	TruVision Navigator	•	•	•
	TVRmobile	•	•	•
	Advisor®	Pending	Pending	•
	OnGuard®	Pending	Pending	•
	TruPortal™	Pending	Pending	•

## Analog/HD-Hybrid Video Recorders Ordering Information

DVR 15cHD	
TVR-1504cHD-1T	TruVision® DVR 15HD Hybrid, 3-5MPx HD, 4 Channels, 1TB Storage
TVR-1504cHD-2T	TruVision® DVR 15HD Hybrid, 3-5MPx HD, 4 Channels, 2TB Storage
TVR-1504cHD-4T	TruVision® DVR 15HD Hybrid, 3-5MPx HD, 4 Channels, 4TB Storage
DVR 15HD	
TVR-1508HD-2T	TruVision DVR 15HD Hybrid, 3-5MPx HD, 8 Channels, 2TB Storage
TVR-1508HD-4T	TruVision DVR 15HD Hybrid, 3-5MPx HD, 8 Channels, 4TB Storage
TVR-1508HD-8T	TruVision DVR 15HD Hybrid, 3-5MPx HD, 8 Channels, 8TB Storage
TVR-1516HD-2T	TruVision DVR 15HD Hybrid, 3-5MPx HD, 16 Channels, 2TB Storage
TVR-1516HD-4T	TruVision DVR 15HD Hybrid, 3-5MPx HD, 16 Channels, 4TB Storage
TVR-1516HD-8T	TruVision DVR 15HD Hybrid, 3-5MPx HD, 16 Channels, 8TB Storage
TVR-1516HD-12T	TruVision DVR 15HD Hybrid, 3-5MPx HD, 16 Channels, 12TB 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

## Analog Cameras

TruVision analog camera line support standard analog, 960H and HD-TVI technology. TruVision's HD-TVI technology delivers up to 3MPx high definition quality video over standard analog coax cable.

### HD-TVI / Analog Cameras



### HD-TVI Analog Cameras



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

### Value-line Cameras



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

## Performance, flexibility and ease of use



### Improved Performance

HD-TVI cameras provide up to 3MPx 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 3MPx image quality over existing coaxial cable.




	Box Camera
	1080p
	TVC-4401
	
Sensor	1/3" Progressive Scan, CMOS
Standard	HD-TVI
Resolution	1080p
Effective Pixels	1920(H) x 1080(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	52 dB (AGC Off)
Lens Type	C/CS (with auto back focus)
Day/Night	IR cut filter with auto switch
Wide Dynamic Range	120 dB
Minimum Illumination	Color: 0.01 lux @ f1.2 (AGC On); B/W: 0.001 lux @ f1.2 (AGC On)
Video Output	Dual output: HD-TVI and 960H Composite (when WDR is enabled, 960H output will be disabled)
Voltage Input	12VDC / 24VAC
Power Consumption	12W (max.)
Operating Temp	12VDC: -22°F~140°F (-30°C~60°C); 24VAC: -22°F~140°F (-30°C~60°C)
Certification	UL, CE, FCC, C-Tick, REACH, RoHS, WEEE


	Wedge Camera
	1080p
	TVW-4401
	
Sensor	1/3" Progressive Scan, CMOS
Standard	HD-TVI
Resolution	1080p Analog
Effective Pixels	1920(H) x 1080(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 (AGC Off)
Lens	2.8mm @ f1.4
Day/Night	IR cut filter with auto switch
Wide Dynamic Range	120 dB
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	33 ft. (10m)
Video Output	HD-TVI
Voltage Input	12VDC
Power Consumption	12W (max.)
Operating Temp	12VDC: -22°F~140°F (-30°C~60°C)
Certification	FCC, CE, UL, RCM, REACH, RoHS, WEEE

	Dome Cameras				
	Fixed Lens		Varifocal Lens		Varifocal Lens (motorized)
	720p	1080p	720p	1080p	1080p
	TVD-4401	TVD-4403	TVD-4402	TVD-4404	TVD-4405
					
Sensor	1/3" Progressive Scan, CMOS				
Standard	HD-TVI				
Resolution	720p Analog	1080p Analog	720p Analog	1080p Analog	
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	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)				
Lens	2.8mm @ f2.2		2.8~12mm @ f1.4		2.8~12mm @ f1.4 (motorized)
Day/Night	IR cut filter with auto switch				
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	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 66 ft. (20m)		Up to 132 ft. (40m)		
Video Output	HD-TVI	Dual output: HD-TVI and 960H Composite (when WDR is enabled, 960H output will be disabled)			
Voltage Input	12 VDC			12VDC / 24VAC	
Operating Temp	12VDC: -22°F~140°F (-30°C~60°C)		12VDC: -22°F~140°F (-30°C~60°C); 24VAC: -40°F~140°F (-40°C~60°C) with heater on		
Environmental Rating	IP66				
Vandal Rating	--		IK10		
Certification	FCC, CE, UL, RCM, REACH, RoHS, WEEE				

# TruVision® HD/Analog Products

	Bullet Cameras				
	Fixed Lens			Varifocal Lens	
	720p	1080p	3MPx	720p	1080p
	<b>TVB-4401</b>	<b>TVB-4403</b>	<b>TVB-4407</b>	<b>TVB-4402</b>	<b>TVB-4404</b>
					
Sensor	1/3" Progressive Scan, CMOS				
Standard	HD-TVI				
Resolution	720p Analog	1080p Analog	3MPx Analog	720p Analog	1080p Analog
Effective Pixels	1280(H) x 720(V)	1920(H) x 1080 (V)	2052(H) x 1536(V)	1280(H) x 720(V)	1920(H) x 1080(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	52 dB (AGC Off)	
Lens	3.6mm @ f2.2			2.8~12mm @ f1.4	
Day/Night	IR cut filter with auto switch				
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	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 66 ft. (20m)			Up to 132 ft. (40m)	
Video Output	HD-TVI	Dual output: HD-TVI and 960H Composite (when WDR is enabled, 960H output will be disabled)	3MPx TVI or 960H Analog	Dual output: TVI and 960H Composite (when WDR is enabled, 960H output will be disabled)	
Voltage Input	12 VDC			12 VDC / 24 VAC	
Operating Temp	12VDC: -22°F~140°F (-30°C~60°C)		-40°F~140°F (-40°C~60°C), Humidity <90% (non-condensing)	12VDC: -22°F~140°F (-30°C~60°C); 24VAC: -40°F~140°F (-40°C~60°C) with heater on	
Environmental Rating	IP66				
Certification	FCC, CE, UL, RCM, REACH, RoHS, WEEE				

	Bullet Cameras		
	Varifocal Lens (motorized)		
	1080p		3MPx
	<b>TVB-4405</b>	<b>TVB-4406</b>	<b>TVB-4408</b>
			
Sensor	1/3" Progressive Scan, CMOS		
Standard	HD-TVI		
Resolution	1080p Analog		3MPx Analog
Effective Pixels	1920(H) x 1080 (V)		2052(H) x 1536(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
Lens	2.8~12mm @ f1.4 motorized	5~50mm @ f2.0~f3.0 motorized	2.8~12mm @ f1.4 motorized
Day/Night	IR cut filter with auto switch		
Wide Dynamic Range	120 dB WDR on HD-TVI output only (if WDR is enabled, then the 960H output is disabled)		
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 132 ft. (40m)	Up to 330 ft. (100m)	Up to 132 ft. (40m)
Video Output	Dual output: HD-TVI and 960H Composite (when WDR is enabled, 960H output will be disabled)		3MPx TVI or 960H Analog
Voltage Input	12 VDC / 24 VAC		
Operating Temp	12VDC: -22°F~140°F (-30°C~60°C); 24VAC: -40°F~140°F (-40°C~60°C) with heater on		-40°F~140°F (-40°C~60°C), Humidity <90% (non-condensing)
Environmental Rating	IP66		
Certification	FCC, CE, UL, RCM, REACH, RoHS, WEEE		

Turret Cameras	
Fixed Lens	Varifocal Lens (motorized)
3MPx	
TVT-4401	TVT-4402
	
Sensor	1/3" Progressive Scan, CMOS
Standard	HD-TVI
Resolution	3MPx Analog
Effective Pixels	2052(H) x 1536(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	>62 dB
Lens	2.8mm fixed   2.8-12mm @ f2.0-f3.0 motorized VF
Day/Night	IR cut filter with auto switch
Wide Dynamic Range	120 dB WDR on HD-TVI output only (if WDR is enabled, then the 960H output is disabled)
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 66 ft. (20m)   Up to 132 ft. (40m)
Video Output	3MPx TVI or 960H Analog
Voltage Input	12 VDC
Operating Temp	-40°F~-140°F (-40°C~60°C), Humidity <90% (non-condensing)
Environmental Rating	IP66
Certification	FCC, CE, UL, RCM, REACH, RoHS, WEEE










Up to 3MPx HD quality with the installation ease of existing analog coax systems

# TruVision® HD/Analog Products

## Analog Cameras Specifications

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	Up to 33 ft. (10m)	Up to 66 ft. (20m)	Up to 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	Up to 66 ft. (20m)		Up to 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		

## HD-TVI/Analog Cameras Ordering Information

HD-TVI BULLET CAMERAS		PAL	
<b>NTSC</b>		<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>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>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>TVB-4402</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, NTSC	<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>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, IP66, NTSC	<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>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-2405</b>	TruVision HD-TVI Analog Dome Camera, 1080p, 2.8-12mm Motorized VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, IK10, PAL
<b>TVB-4405</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 2.8-12mm Motorized VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, NTSC	<b>HD-TVI TURRET CAMERAS</b>	
<b>TVB-4406</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 5-50mm Motorized VF Lens, True D/N, WDR, 100m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, NTSC	<b>NTSC</b>	
<b>TVB-4407</b>	TruVision HD-TVI Analog Bullet Camera, 3MPx (use with 3MPx or higher TVI recorders), 3.6mm Lens, True D/N, WDR, 20m IR, Dual-Output 960H Monitor or HD-TVI, Coax OSD Control, 12VDC, IP66, NTSC	<b>TVT-4401</b>	TruVision HD-TVI Analog Turret Camera, 3MPx (use with 3MPx 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, NTSC
<b>TVB-4408</b>	TruVision HD-TVI Analog Bullet Camera, 3MPx (use with 3MPx 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, NTSC	<b>TVT-4402</b>	TruVision HD-TVI Analog Turret Camera, 3MPx (use with 3MPx 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, NTSC
<b>PAL</b>		<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>TVT-2401</b>	TruVision HD-TVI Analog Turret Camera, 3MPx (use with 3MPx 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
<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>TVT-2402</b>	TruVision HD-TVI Analog Turret Camera, 3MPx (use with 3MPx 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
<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>HD-TVI WEDGE CAMERAS</b>	
<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>NTSC</b>	
<b>TVB-2405</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 2.8-12mm Motorized VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, PAL	<b>TVW-4401</b>	TruVision HD-TVI Wedge Camera, 1080p, 2.8mm Lens, True D/N, WDR, 10m IR, TVI Output, TVI & Button OSD Control, 12VDC, IP66, IK8, NTSC
<b>TVB-2406</b>	TruVision HD-TVI Analog Bullet Camera, 1080p, 5-50mm Motorized VF Lens, True D/N, WDR, 100m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, PAL	<b>PAL</b>	
<b>TVB-2407</b>	TruVision HD-TVI Analog Bullet Camera, 3MPx (use with 3MPx or higher TVI recorders), 3.6mm Lens, True D/N, WDR, 20m IR, Dual-Output 960H Monitor or HD-TVI, Coax OSD Control, 12VDC, IP66, PAL	<b>TVW-2401</b>	TruVision HD-TVI Wedge Camera, 1080p, 2.8mm Lens, True D/N, WDR, 10m IR, TVI Output, TVI & Button OSD Control, 12VDC, IP66, IK8, PAL
<b>TVB-2408</b>	TruVision HD-TVI Analog Bullet Camera, 3MPx (use with 3MPx 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, NTSC	<b>VALUE-LINE ANALOG CAMERAS</b>	
<b>HD-TVI BOX CAMERAS</b>		<b>NTSC</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>TVC-4401</b>	TruVision HD-TVI Box Camera, 1080p, C/CS Lens, True D/N, WDR, 960H Monitor & TVI Dual-output, TVI & Button OSD Control, 12VDC/24VAC, NTSC	<b>TVB-4201</b>	TruVision Bullet Camera, 700TVL, 3.6mm Lens, True D/N, 20m IR, 12VDC, IP66, NTSC
<b>PAL</b>		<b>TVB-4202</b>	TruVision Bullet Camera, 700TVL, 6mm Lens, True D/N, 20m IR, 12VDC, IP66, NTSC
<b>TVC-2401</b>	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	<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>HD-TVI DOME CAMERAS</b>		<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>NTSC</b>		<b>TVT-4201</b>	TruVision Turret Camera, 700TVL, 3.6mm Lens, True D/N, 20m IR, 12VDC, 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>TVT-4202</b>	TruVision Turret Camera, 1280H Sensor, 720TVL, 2.8-12mm Varifocal Lens, True D/N, 40m IR, 12VDC, IP66, 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 or HD-TVI Selectable Output, Coax & Button OSD Control, 12VDC/24VAC, IP66, IK10, NTSC	<b>PAL</b>	
<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>TVW-2101</b>	TruVision IR Wedge Camera, 700TVL, 2.8mm Fixed Lens, True D/N, 10m IR, 12VDC, PAL
<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>TVB-2201</b>	TruVision Bullet Camera, 700TVL, 3.6mm Lens, True D/N, 20m IR, 12VDC, IP66, PAL
<b>TVD-4405</b>	TruVision HD-TVI Analog Dome Camera, 1080p, 2.8-12mm Motorized VF Lens, True D/N, WDR, 40m IR, 960H Monitor & HD-TVI Dual-output, Coax & Button OSD Control, 12VDC/24VAC, IP66, IK10, NTSC	<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

# TruVision® HD/Analog Products



## HD-TVI

### HD-TVI 1080p Analog PTZ Cameras



- 1/3" Progressive scan CMOS sensor
- 30X optical zoom, 16X digital
- 1080p HD resolution
- 3DNR and DWDR
- HD-TVI - TruVision-Coax (UTC), by default support
- Interlogix® RS-485, RS422 Digiplex, RS422 ASCII protocols as well as select third-party protocols support
- IR illumination (on select models)
- IP66 or IP54 on select models
- 3-year warranty

### HD-TVI/Analog PTZ Cameras Ordering Information

#### HD-TVI PTZ CAMERAS

##### NTSC




<b>TVP-4401</b>	TruVision HD-TVI PTZ Dome, 1080p, 30X, DWDR, Wall Mount, Monitor & TVI Dual-output, TVI/RS485/RS422 Control, 24VAC, IP66, NTSC
<b>TVP-4402</b>	TruVision HD-TVI PTZ Dome, 1080p, 30X, DWDR, Surface/Flush Mount, Monitor & TVI Dual-output, TVI/RS485/RS422 Control, 24VAC, IP66, NTSC
<b>TVP-4403</b>	TruVision HD-TVI IR PTZ Dome, 1080p, 30X, DWDR, 150m IR, Pendant/Wall Mount, Monitor & TVI Dual-output, TVI/RS485/RS422 Control, 24VAC, NTSC

##### PAL

<b>TVP-2401</b>	TruVision HD-TVI PTZ Dome, 1080p, 30X, DWDR, Wall Mount, Monitor & TVI Dual-output, TVI/RS485/RS422 Control, 24VAC, IP66, PAL
<b>TVP-2402</b>	TruVision HD-TVI PTZ Dome, 1080p, 30X, DWDR, Surface/Flush Mount, Monitor & TVI Dual-output, TVI/RS485/RS422 Control, 24VAC, IP66, PAL
<b>TVP-2403</b>	TruVision HD-TVI IR PTZ Dome, 1080p, 30X, DWDR, 150m IR, Pendant/Wall Mount, Monitor & TVI Dual-output, TVI/RS485/RS422 Control, 24VAC, PAL

## HD-TVI/Analog PTZ Cameras Comparison Table

The TruVision® HD-TVI PTZ cameras utilizes our latest HD-TVI 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 30X Optical (16X Digital) cameras provide optimal image quality in a variety of indoor or outdoor environments. Motion detection, privacy masking and electronic image stabilization provide additional value to any surveillance system.

	Outdoor		Indoor	
	Wall Mount	Surface/Flush Mount	Pendant/Wall Mount	
	TVP-4401	TVP-4402	TVP-4403	
				
Sensor	1/3" CMOS			
Standard	HD-TVI			
Resolution	1080p on HD-TVI (White) BNC output / 960H on (Black) BNC output			
Effective Pixels	1920(H) x 1080(V)			
Synchronization System	Internal			
Day/Night	True D/N IR cut filter			
Wide Dynamic Range	DWDR			
Digital Noise Reduction	3D-DNR			
Digital S/N Ratio	52 dB (AGC Off)			
Electronic Shutter	1 - 1/10,000 s			
Minimum Illumination	Color: 0.02 lux @ f1.6 (AGC ON); BW: 0.002 lux @ f1.6 (AGC ON); 0 lux IR On			
IR Range	N/A		Up to 492 ft. (150m)	
Lens	4.0~120mm @ f1.6~f4.4			
Zoom Range	30X Optical / 16X Digital			
Pan Range and Speed	Range: 360° Endless; Manual Speed: 0.1°~250° per sec; Preset Speed: 300° per sec		Range: 360° Endless; Manual Speed: 0.1°~160° per sec; Preset Speed: 240° per sec	
Tilt Range and Speed	Range: -5° ~ 90°; Manual Speed: 0.1°~150° per sec; Preset Speed 200° per sec		Range: -15° ~ 90°; Manual Speed: 0.1°~120° per sec; Preset Speed 200° per sec	
Image Flip	Auto Flip			
Video Output	Dual output 960H and HD-TVI			
Presets	256			
Patrol	8 - up to 32 presets per patrol			
Intelligence	Image flip, Defog, Image Freeze, Smart IR			
Alarm I/O	2 input / 1 output		--	
PTZ Protocol	HD-TVI - TruVision-Coax (UTC), by default; 960H BNC - Interlogix RS485 protocol, Pelco-P, Pelco-D, RS422 Digiplex, RS422 ASCII, BOSCH_Code, AD-Code			
Voltage Input	24 VAC			
Operating Temp	-22°F~-149°F (-30°C ~65°C)	-14°F~-122°F (-10°C~50°C)		-22°F~-149°F (-30°C ~65°C)
Environmental Rating	IP66	IP54		IP66
Vandal Rating	IK10		N/A	
Certification	FCC, CE, UL, WEEE, RoHS, REACH			

# Seamless integration for complete coverage

TruPortal is designed to be part of a multi-faceted security system, working effectively with additional components. The TruPortal system provides TruVision video integration with access events, along with scheduled and manual data backup capabilities.

 **truPortal**

 **truVision**



## 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 Wedge Cameras



Model	Description	HD-Hybrid Recorder	HD-TVI Cameras
<b>TVR-1204CHD-KW1</b>	<b>4-Ch HD-Hybrid 1TB DVR w/4 1080p IR Wedge Cameras Kit</b>	<b>1 x TVR-1204CHD-1T</b> 4-Channel DVR 12HD Compact, 1080p HD, 1TB Storage	<b>4 x TVW-4401</b> HD-TVI Analog Wedge, 1080p, 2.8mm lens, True D/N, WDR, IR, HD-TVI output, 12VDC, IP66, IK8

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



Model	Description	HD-Hybrid Recorder	HD-TVI Cameras
<b>TVR-1204HD-KB1</b>	<b>4-Ch HD-Hybrid 1TB DVR w/4 720p IR Bullet Cameras Kit</b>	<b>1 x TVR-1204CHD-1T</b> 4-Channel DVR 12HD Compact, 1080p HD, 1TB Storage	<b>4 x TVB-4401</b> HD-TVI Analog Bullet, 720p, 3.6mm lens, True D/N, DWDR, IR, HD-TVI output, 12VDC, IP66
<b>TVR-1204HD-KB5</b>	<b>4-Ch HD-Hybrid 1TB DVR w/4 1080p IR Bullet Cameras Kit</b>	<b>1 x TVR-1204CHD-1T</b> 4-Channel DVR 12HD Compact, 1080p HD, 1TB Storage	<b>4 x TVB-4403</b> HD-TVI Analog Bullet, 1080p, 3.6mm lens, True D/N, WDR, IR, HD-TVI output, 12VDC, IP66
<b>TVR-1204HD-KB6</b>	<b>4-Ch HD-Hybrid 2TB DVR w/4 1080p IR Bullet Cameras Kit</b>	<b>1 x TVR-1204CHD-2T</b> 4-Channel DVR 12HD Compact, 1080p HD, 2TB Storage	<b>4 x TVB-4403</b> 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
<b>TVR-1208HD-KB1</b>	<b>8-Ch HD-Hybrid 2TB DVR w/4 1080p IR Bullet Cameras Kit</b>	<b>1 x TVR-1208HD-2T</b> 8-Channel DVR 12HD, 1080p HD, 2TB Storage	<b>4 x TVB-4403</b> 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 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



## KTD-405 Analog Keypad

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

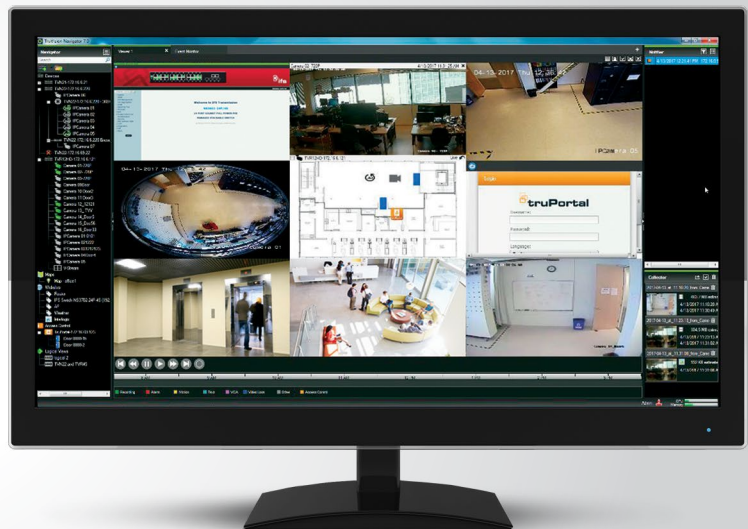
#### ANALOG KEYPAD

**KTD-405** TruVision Three-axis Variable Speed Controller Keypad

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

## TruVision Navigator v7

# Centralized security system 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	
<b>TVN-HDD-4T</b>	TruVision NVR HDD Expansion Kit, 4TB Storage
<b>TVN-20XX-HDD-2T</b>	TruVision NVR HDD Expansion Kit, 2TB Storage
<b>TVN-HDD-6T</b>	TruVision NVR HDD Expansion Kit, 6TB Storage
RAID HDD	
<b>TVN-HDDR-4T</b>	TruVision NVR HDD Expansion Kit, 4TB Storage, RAID

## Lenses

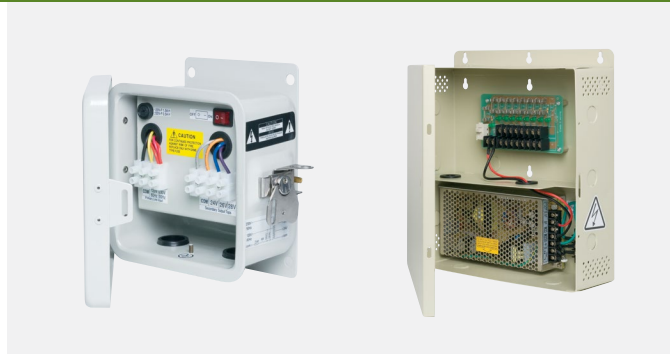
Interlogix offers a complete line of 1/3-inch format lenses. High quality multi-coated glass lens elements provide excellent contrast and color rendition. All lenses feature metal CS mounts.

### Lens Ordering Information

VARIFOCAL MANUAL IRIS	
<b>YV2.1X2.8SR4A-2</b>	Megapixel 1/3" 2.8-6mm F1.3, Day/Night Manual Iris, IR Corrected
<b>YV2.8X2.8SA-2</b>	Megapixel 1/3" 2.8-8mm F1.2, Manual Iris
VARIFOCAL AUTO-IRIS	
<b>YV2.1X2.8SR4A-SA2</b>	Megapixel 1/3" 2.8-6mm F1.3, Day/Night Auto Iris DC, IR Corrected
<b>YV2.8X2.8SA-SA2</b>	Megapixel 1/3" 2.8-8mm F1.2, Auto Iris DC
<b>YV10X5HR4A-SA2</b>	Megapixel 1/3" 5-50mm F1.5, Day/Night Auto Iris DC, IR Corrected
<b>TVL-001</b>	TruVision 1.3 - 3MPx Lens, 2.7~12mm VF, F1.2, CS Mount, 1/2.7 inch, CS, Auto Iris, IR Sensitive, for 1.3 - 3MPx Box Cameras
<b>TVL-002</b>	TruVision 1.3 - 3MPx Lens, 5~50mm VF, F1.7, CS Mount, 1/2.7 inch, CS, Auto Iris, IR Sensitive, for 1.3 - 3MPx Box Cameras
<b>TVL-003</b>	TruVision 8MPx Lens, 3.8~16mm VF, F1.5, CS, IR Sensitive, for 4 - 8MPx Box Cameras
<b>TVL-004</b>	TruVision 8MPx Lens, 11~40mm VF, F1.5, CS, IR Sensitive, for 4 - 8MPx Box Cameras

# TruVision® Controllers & Power Supplies

## Camera Service Tools and Power



## TVS-C200 Coaxial Controller

An invaluable service tool, this 960H coaxial controller provides easy remote configuration of TruVision cameras.

- Cameras support TruVision coax OSD control protocol on 960H 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 (not compatible with 3MPx HD-TVI cameras)
- Powered by 2 AAA batteries (not included) or 12VDC

### Coaxial Controller Ordering Information

#### COAXIAL CONTROLLER

<b>TVS-C200</b>	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
<b>TVPS-01-24AC</b>	1 AC	Single-Position Outdoor PTZ Power Supply, 120/240VAC Input, 24/28VAC Output @ 4A
<b>TVPS-16-12DC</b>	16 DC	Sixteen (16) Output 12VDC Power Supply, 12VDC @ 1.125 Amps (18A total)
<b>TVPS-4-12DC</b>	4 DC	Four (4) Output 12VDC Power Supply, 12VDC @ 1.25 Amps (5A total)
<b>TVPS-8-12DC</b>	8 DC	Eight (8) Output 12VDC Power Supply, 12VDC @ 1.06 Amps (8A total)

### Power Supplies Ordering Information

#### POWER SUPPLIES

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

# 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 Interlogix dome and wedge cameras
- High-quality metal construction provides added durability

### Universal Mounts Ordering Information

BACK BOXES AND ADAPTERS	
<b>TVD-BB1</b>	TruVision Dome Back Box (use w/Plastic Dome)
<b>TVD-BB3</b>	TruVision Dome Back Box (use w/TVD-6/-7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor Domes)
<b>TVD-BB3A</b>	TruVision Dome Angled Back Box (use w/TVD-6/-7 Series Analog Dome, IP Indoor VF Domes, IP Outdoor Domes)
<b>TVW-AWB-1</b>	TruVision Outdoor Angled Back Box for Wedge Cameras
<b>TVW-AWB-2</b>	TruVision Indoor Angled Back Box for Wedge Cameras
<b>TVW-2G-AD</b>	TruVision Double Gang Electrical Box Adapter Plate for Wedge Cameras
<b>TVF-BBM</b>	TruVision 360° Dome Round Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor
<b>TVF-WBM</b>	TruVision 360° Dome Round Angled Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor/Outdoor
<b>TVD-SNB-BB</b>	TruVision TVD-SNB Back Box, 4-directional Conduit, Indoor & Outdoor
<b>TVD-LWB-AD</b>	TruVision LWB Bracket Adapter to TVD-SNB-BB Back Box
<b>TVB-BB1</b>	TruVision Bullet Camera Back Box (for Fixed Lens Bullet)
<b>TVB-2G-AD</b>	TruVision Double Gang Box Adapter Plate (for Fixed Lens Bullet or LWB Wall Mount)
WALL MOUNTS AND ADAPTERS	
<b>TVD-M2-WM</b>	TruVision Dome Wall Mount (use w/TVD VF Domes)
<b>TVD-LWB-1</b>	TruVision Dome Bracket, L-shape, Indoor (use w/TVW Analog/IP Wedge and HD-TVI Fixed Lens Dome Cameras)
<b>TVD-LWB-2</b>	TruVision Dome Bracket, L-shape, Indoor (use w/TVD Analog/HD-TVI VF Domes and IP Motor Lens Outdoor Dome)
<b>TVD-LWB-AD</b>	TruVision LWB Bracket Adapter to TVD-SNB-BB Back Box
<b>TVD-LWB-S</b>	Dome Camera Wall Mount Shield (use w/TVD-LWB-1 or TVD-LWB-2)
<b>TVD-SNB</b>	TruVision Dome Swan Neck Bracket (use w/TVD-CB5A, TVD-CB#, TVD-CB2, TVW-DVM)
<b>TVD-CB2</b>	TruVision Dome 2-inch Cup Base
<b>TVD-CB3</b>	TruVision Dome 3-inch Cup Base

<b>TVD-CB5A</b>	TruVision Integrated Dome 5-inch Cup Base (use w/TruVision IP Outdoor Dome Cameras, TVD-SNB, TVD-PPB)
<b>TVF-CBM</b>	TruVision 360° Dome Cup Base (use w/TVD-PPB for Pendant Mount or TVD-SNB for Wall Mount)
<b>TVW-DVM</b>	Dual View Mount for Wedge (use w/TVD-PPB and TVD-SNB)
<b>DR-RWM-AD</b>	Adapter for TVD Plastic Dome to DR & TVD-M2-WM Wall Mount Bracket
<b>TVD-M-CMA</b>	TruVision Corner Mount Adapter (use w/TVD-SNB, TVC VF/Motor Lens IP Bullet Cameras and TVD-HD-TVI/Analog VF Bullet Cameras)
<b>TVD-M-PMA</b>	TruVision Pole Mount Adapter (use w/TVD-SNB, TVC VF/Motor Lens IP Bullet Cameras and TVD-HD-TVI/Analog VF Bullet Cameras)

### PENDANT MOUNTS AND ADAPTERS

<b>TVD-PPB</b>	TruVision Dome Pendant Mount Bracket (use w/TVD-CB5A, TVD-CB3, TVD-CB2, TVW-DVM)
<b>TVW-DVM</b>	Dual View Mount for Wedge (use w/TVD-PPB and TVD-SNB)
<b>TVD-CB2</b>	TruVision Dome 2-inch Cup Base
<b>TVD-CB3</b>	TruVision Dome 3-inch Cup Base
<b>TVD-CB5A</b>	TruVision Integrated Dome 5-inch Cup Base (use w/TruVision IP Outdoor Dome Cameras, TVD-SNB, TVD-PPB)
<b>TVD-CBM</b>	TruVision 360° Dome Cup Base (use w/TVD-PPB for Pendant Mount or TVD-SNB for Wall Mount)

### FLUSH MOUNTS

<b>TVD-M2-FM</b>	TruVision Indoor Flush Mount (use w/TVD IP VF Domes)
<b>TVD-VFM</b>	TruVision VF Dome Flush Mount (for Analog and TVI)

### 360° CAMERA ACCESSORIES

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

### PTZ CAMERA ACCESSORIES

<b>TVP-WMB</b>	TruVision PTZ Dome Wall Mount Bracket
<b>TVP-WM-PM</b>	TruVision PTZ Dome Pole Mount Adapter (use w/TVP-WMB Wall Mount Bracket)
<b>TVP-WM-CM</b>	TruVision PTZ Dome Corner Mount Adapter (use w/TVP-WMB Wall Mount Bracket)
<b>1060050A</b>	TruVision Pendant Adapter for PTZ, 1 1/4 NPT, Rubber Booth, UTC Gray (use with Outdoor Pendant)
<b>GEA-102</b>	TruVision Wall Mount, Cast Aluminum
<b>GEA-104</b>	TruVision Parapet Swing-Arm Mount
<b>GEA-105</b>	TruVision Corner-Mount Adapter
<b>GEA-106</b>	TruVision Pole-Mount Adapter
<b>GEA-107</b>	TruVision Roof-Mount Adapter

## Dome Bubbles Ordering Information









<b>TVD-BHS-1B</b>	TruVision IP Wedge Bubble & Housing Spare, Clear, Metal Housing, Mic Hole, Black
<b>TVD-BHS-1BP</b>	TruVision IP Wedge Bubble & Housing Spare, Clear, Plastic Housing, Wi-Fi® Version, Mic Hole, Black
<b>TVD-BHS-1G</b>	TruVision IP Wedge Bubble & Housing Spare, Clear, Metal Housing, Mic Hole, Gray
<b>TVD-BHS-1GP</b>	TruVision IP Wedge Bubble & Housing Spare, Clear, Plastic Housing, Wi-Fi® Version, Mic Hole, Gray
<b>TVD-BHS-1W</b>	TruVision IP Wedge Bubble & Housing Spare, Clear, Metal Housing, Mic Hole, White
<b>TVD-BHS-1WP</b>	TruVision IP Wedge Bubble & Housing Spare, Clear, Plastic Housing, Wi-Fi® Version, Mic Hole, White
<b>TVD-BS-1C</b>	TruVision Wedge Bubble Spare, Clear
<b>TVD-BS-1S</b>	TruVision Wedge Bubble Spare, Smoked
<b>TVD-BS-2C</b>	TruVision Plastic Dome Bubble Spare, Clear
<b>TVD-BS-2S</b>	TruVision Plastic Dome Bubble Spare, Smoked
<b>TVD-BS-3C</b>	TruVision Dome Bubble Spare for IP VF and TVD-6/-7 Series Analog VF, Clear
<b>TVD-BS-3S</b>	TruVision Dome Bubble Spare for IP VF and TVD-6/-7 Series Analog VF, Smoked
<b>TVD-BS-5C</b>	TruVision Dome Bubble Spare for IP 12/32 Motor Lens, 22/42 and 24/44 Series Analog VF, Clear
<b>TVD-BS-5S</b>	TruVision Dome Bubble Spare for IP 12/32 Motor Lens, 22/42 and 24/44 Series Analog VF, Smoked













Secure critical  
infrastructure with  
TruVision® on board.

# TruVision® Mounts and Adapters

## Camera Mount Selection Guide

		Adapter Plate Included	Back Box Included	Mounting to a Back Box	Mounting to 2 Gang Electrical Box	Flush Mount Fixed Lens	Flush Mount VF Lens	Wall Mount					
		Refer to legend below	Refer to legend below			TVD-M2-FM 	TVD-VFM 	TVD-LWB-1 ((1+9) or 10") 	TVD-LWB-2 ((1+9) or 10") 	TVD-AWB-1 	TVD-AWB-2 	DR Series DR-RWM 	
Accessories								TVD-LWB-S 					
Threaded Pipe Mounts													
Cat.	SKU												
IP	TVF-3101			5, 6									
	TVF-3102			5, 6									
	TVF-3103			5, 6									
	TVF-3104			5, 6									
	TWV-3103	A		(3 or 4) A + 7	8			A				A + 7	
	TWV-3104	A		(3 or 4) A + 7	8			A				A + 7	
	TWV-3105	A		(3 or 4) A + 7	8			A				A + 7	
	TWV-3106	A		(3 or 4) A + 7	8			A				A + 7	
	TWV-3116	A		(3 or 4) A + 7	8			A				A + 7	
	TWV-3130	A		(3 or 4) A + 7	8			A				A + 7	
	TVD-5301			2									7
	TVD-5302			2									7
	TVD-5303	B		3, 4	B	B			B				
	TVD-5304	B		3, 4	B	B			B				
	TVT-5301	D		(3 or 4) + D	D								
	TVT-5302	D		(3 or 4) + D	D								
	TVT-5303	D		(3 or 4) + D	D								
	TVT-5304	D		(3 or 4) + D	D								
	TVT-5305	D		(3 or 4) + D	D								
	TVT-5306	D		(3 or 4) + D	D								
	TVT-5307	D		(3 or 4) + D	D								
	TWV-5301	A		(3 or 4) A + 7	8				A				A + 7
	TWV-5302	A		(3 or 4) A + 7	8				A				A + 7
	TWV-5303	A		(3 or 4) A + 7	8				A				A + 7
	TWV-5304	A		(3 or 4) A + 7	8				A				A + 7
	TWV-5305	A		(3 or 4) A + 7	8				A				A + 7
	TVD-5401	C		3, 4	C	C			C				
	TVD-5402	C		3, 4	C	C			C				
	TVD-5403	C		3, 4	C	C			C				
	TVD-5404		F	F	F				F				
	TVD-5405		F	F	F				F				
	TVD-5406		F	F	F				F				
TVD-5407		F	F	F				F					
TVD-5408		F	F	F				F					
Analog	TWV-4101	A		(3 or 4) + 7	8			A				A + 7	
	TVD-4202		E	E	E			E					
	TVD-4401			2								7	
	TVD-4402		E	E	E			E					
	TVD-4403			2								7	
	TVD-4404		E	E	E			E					
	TVD-4405		E	E	E			E					
	TVT-4401	D		(3 or 4) + D	D								
	TVT-4402	D		(3 or 4) + D	D								
	TWV-4401	A		(3 or 4) A + 7	8			A				A + 7	

### Optional Back Boxes and Adapters

Wall/Ceiling Mount						Adapters			
(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 Elec. Box Adapter 	(9) TVD-LWB-AD LWB Wall Mount Adapter Plate 	(10) TVD-2G-AD Recessed 2 Gang Adapter* 

\*Note: Not compatible with surface mount/all-weather 2 gang box.









Wall Mount						Pendant Mount						
TVD-SNB (1, 11, 12)						TVD-M2-WM (1, 11, 12)	TVD-PPB					
		A							A			
		A							A			
		A							A			
		A							A			
		A							A			
		A							A			
			7							7		
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








Optional Corner and Pole Mounts, Shield		
Corner/Pole Mount		Shield
(11) TVD-M-CMA Corner Mount	(12) TVD-M-PMA Pole Mount	TVD-LWB-S Dome Shield

Included Adapters and Back Boxes					
Adapters				Back Boxes	
(A) Wedge Adapter Plate	(B) IP Manual VF Lens Dome Adapter Plate	(C) IP Indoor VF Dome Adapter Plate	(D) Turret Adapter Plate	(E) Analog Manual VF Lens Dome Back Box	(F) Motorized Lens Dome Back Box

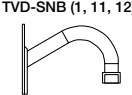

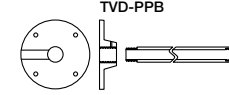












# TruVision® Mounts and Bubbles



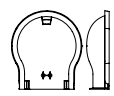
## Camera Mount Selection Guide





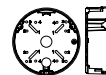
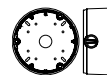
	Adapter Plate Included	Back Box Included	Mounting to a Back Box	Mounting to 2 Gang Electrical Box	Flush Mount Fixed Lens	Flush Mount VF Lens	Wall Mount				
Mounting Brackets	Refer to legend below	Refer to legend below			TVD-M2-FM 	TVD-VFM 	TVD-LWB-1 ((1+9) or 10") 	TVD-LWB-2 ((1+9) or 10") 	TVD-AWB-1 	TVD-AWB-2 	DR Series DR-RWM 
Accessories							TVD-LWB-S 				
Threaded Pipe Mounts											
Cat.	SKU										
IP	TVD-M5225E-3M-N		F	F	F				F		
	TVD-3101			2							7
	TVD-3102			2							7
	TVD-3103	B		3, 4	B	B			B		
	TVD-3104	B		3, 4	B	B			B		
	TVD-3105			2							7
	TVD-3106			2							7
	TWV-3101	A		(3 or 4) A + 7	8			A			A + 7
	TWV-3102	A		(3 or 4) A + 7	8			A			A + 7
	TWV-3107	A		(3 or 4) A + 7	8			A			A + 7
	TWV-3108	A		(3 or 4) A + 7	8			A			A + 7
	TWV-3109	A		(3 or 4) A + 7	8			A			A + 7
	TWV-3117	A		(3 or 4) A + 7	8			A			A + 7
	TWV-3118	A		(3 or 4) A + 7	8			A			A + 7
	TWV-3119	A		(3 or 4) A + 7	8			A			A + 7
	TVD-3201	B		3, 4	B	B			B		
	TVD-3202	B		3, 4	B	B			B		
	TVD-3203		F	F	F				F		
	TVD-3204		F	F	F				F		
	TVD-3205		F	F	F				F		

Optional Back Boxes and Adapters									
Wall/Ceiling Mount						Adapters			
(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) TWV-2G-AD 2 Gang Elec. Box Adapter 	(9) TVD-LWB-AD LWB Wall Mount Adapter Plate 	(10) TVD-2G-AD Recessed 2 Gang Adapter* 

\*Note: Not compatible with surface mount/all-weather 2 gang box.




Wall Mount						Pendant Mount											
TVD-SNB (1, 11, 12) 						TVD-M2-WM (1, 11, 12) 						TVD-PPB 					
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 						
				Remove F							Remove F						
			7						7								
			7						7								
			B						B								
			B						B								
			7						7								
			7						7								
		A						A									
		A						A									
		A						A									
		A						A									
		A						A									
		A						A									
		A						A									
		A						A									
			B						B								
			B						B								
				Remove F							Remove F						
				Remove F							Remove F						
				Remove F							Remove F						

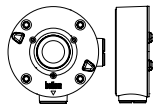
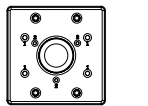
Optional Corner and Pole Mounts, Shield		
Corner/Pole Mount	Shield	
(11) TVD-M-CMA Corner Mount 	(12) TVD-M-PMA Pole Mount 	TVD-LWB-S Dome Shield 


Included Adapters and Back Boxes					
Adapters				Back Boxes	
(A) Wedge Adapter Plate 	(B) IP Manual VF Lens Dome Adapter Plate 	(C) IP Indoor VF Dome Adapter Plate 	(D) Turret Adapter Plate 	(E) Analog Manual VF Lens Dome Back Box 	(F) Motorized Lens Dome Back Box 

# TruVision® Mounts and Bubbles

## Bullet and Box Camera Mount Selection Guide

		Back Box Included	Mounting to a Back Box	Mounting to a Recessed 2 Gang Electrical Box	Wall Mount		Box Camera Outdoor Housing w/Heater and TVC-M2-WM Wall Mount	
		Refer to legend below.			TVC-M-WM	TVC-M2-WM	TVC-OH2-H	
<b>Mounting Brackets</b>								
Cat.	SKU							
IP	TVB-3101		1	2				
	TVB-3102		1	2				
	TVB-3103		1	2				
	TVB-3104	A						
	TVB-3105	A						
	TVB-3201	A						
	TVB-3202	A						
	TVB-3203	A						
	TVB-5301		1	2				
	TVB-5302		1	2				
	TVB-5303	A						
	TVB-5304	A						
	TVB-5401	A						
	TVB-5402	A						
	TVB-5403	A						
	TVB-5404	A						
	TVB-5405	A						
	TVC-3201							
	TVC-3202							
	TVC-5401							
TVC-5402								
TVC-5403								
ANALOG	TVB-4201		1	2				
	TVB-4202		1	2				
	TVB-4203	A						
	TVB-4401		1	2				
	TVB-4402	A						
	TVB-4403		1	2				
	TVB-4404	A						
	TVB-4405	A						
	TVB-4406	A						
	TVB-4407		1	2				
	TVB-4408	A						
TVC-4401								

Optional Back Box and Adapter	
(1) TVB-BB1 Fixed Lens Bullet Back Box	(2) TVB-2G-AD Recessed 2 Gang Box* Adapter Plate
	

Included Back Box
(A) VF Lens Bullet Back Box


\*Note: Not compatible with surface mount/all-weather 2 gang box.



## Better education starts with with safe schools.

Featuring components that are easy to install and operate, TruVision® solutions provide optimal video coverage for schools of all sizes.



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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