### TVC-M1245E-2M-N(-P) H.264 IP 1.3MPX WDR Bullet Camera

* 1. The TVC-M1245E-2M-N(-P) IP 1.3MPX WDR Bullet camera shall capture, encode and transmit video over a network.
	2. TVC-M1245E-2M-N(-P) shall be as manufactured by Interlogix.
	3. The TVC-M1245E-2M-N(-P) shall support the encoding of all images with a digital watermark. The verification of watermarked images shall reside solely with the manufacturer.
	4. TVC-M1245E-2M-N(-P) shall include, but not be limited to the following:
		1. TVC-M1245E-2M-N(-P) shall provide network connections for the purpose of allowing users to integrate it with network storage products.
			1. TVC-M1245E-2M-N(-P) shall provide 1/3” Progressive Scan CMOS sensor.
			2. TVC-M1245E-2M-N(-P) shall provide digital encoded video stream.
		2. TVC-M1245E-2M-N(-P) shall support PoE power supply.
		3. TVC-M1245E-2M-N(-P) shall provide infrared LED.
		4. TVC-M1245E-2M-N(-P) shall provide IR Cut filter.
		5. TVC-M1245E-2M-N(-P) shall provide WDR.
		6. TVC-M1245E-2M-N(-P) shall provide 2.7 – 9 mm @ F1.6 Motorized lens with zoom function.
		7. TVC-M1245E-2M-N(-P) shall provide dual streams.
		8. TVC-M1245E-2M-N(-P) shall incorporate Triplex functionality for simultaneous viewing, recording and playback. (By web browser).
		9. TVC-M1245E-2M-N(-P) shall include search capabilities by web browser:
			1. Time
			2. Date
		10. TVC-M1245E-2M-N(-P) shall provide a frame rate of 30 frames per second @ 60Hz (25 frames per second @ 50Hz).
		11. TVC-M1245E-2M-N(-P) shall be user configured via Ethernet with a personal computer running included, and a current version of the Internet Explorer web browser.
			1. TVC-M1245E-2M-N(-P) shall have an integrated web client interface to configure, upgrade, and view the following information:
				1. View live and recorded video
				2. View logs of system
				3. Configure system settings, which include network settings, and network HDD settings
				4. Configure camera settings and user settings
				5. View the system information
			2. Access to menus shall be set by user status.
				1. Operator status shall grant access to change the configuration of his/her own account, and cannot create or delete other users.
				2. Viewer status shall grant access to live view, record and playback modes as well as take snapshots, but neither change configuration settings nor search the logs for events.
				3. Admin status shall grant access to all menus.
			3. Configurable options shall include:
				1. Search

Date

Time

* + - * 1. Archive
				2. Display

Time/Date

Playback Time/Date

Camera Titles

Text Insertion

* + - * 1. Users

Add User

Edit User

* + - * 1. Cameras

Resolution, frame rate and bit rate

Motion detection

Camera Title and Date/Time

Record schedule

* + - * 1. Image

Brightness

Contrast

Video saturation

Hue

Sharpness

Shutter Speed

Iris Mode

Power Mode

IR Mode

Day/Night

IR Cut Delay

Image flip

WDR

White balance

SceneMode

* + - * 1. Alarms

System Notification

HDD Error

HDD Full

Network Disconnected

IP Address conflicted

Illegal Login

* + - * 1. IP Settings

Basic Settings

PPPoE

DDNS

Net HDD

Email

* + - * 1. Interface

Network RJ-45

* 1. The IP bullet camera shall have the following operational features:
		1. Streaming
			1. Each TVC-M1245E-2M-N(-P) shall support Video Streaming, which is the process that the recorder uses to listen on a specific UDP/TCP port and respond to control messages issued through web client software or third-party compatible VMS software.
				1. TVC-M1245E-2M-N(-P) shall support multicasting to deliver source traffic to multiple receivers using the least amount of network bandwidth.
			2. TVC-M1245E-2M-N(-P) shall be able to display and record streamed video using TCP or UDP protocols.
			3. TVC-M1245E-2M-N(-P) shall support PSIA and ONVIF protocols.
		2. Recording
			1. TVC-M1245E-2M-N(-P) shall record video on multiple network hard drives. Network hard disk drive shall be available: NAS
			2. TVC-M1245E-2M-N(-P) shall support the following user programmable record speeds:
				1. 30/25 fps
				2. 22 fps
				3. 20 fps
				4. 18 fps
				5. 16 fps
				6. 15 fps
				7. 12 fps
				8. 10 fps
				9. 8 fps
				10. 6 fps
				11. 4 fps
				12. 2 fps
				13. 1 fps
				14. 1/2 fps
				15. 1/4 fps
				16. 1/8 fps
				17. 1/16 fps
			3. TVC-M1245E-2M-N(-P) shall support the following bit rate:

32 kbps to 16 Mbps, or user-defined

* + - 1. TVC-M1245E-2M-N(-P) shall allow the user to select whether the network hard disk recording should automatically overwrite data and how using one of two settings:
				1. No overwrite
				2. Continuous overwrite
			2. TVC-M1245E-2M-N(-P) shall be able to continue recording without disruption when the user adjusts the normal record speed.
			3. The user shall be able to playback videos smoothly at normal or fast speeds and in forward mode, without distortion.
			4. TVC-M1245E-2M-N(-P) shall include a Search Interface feature that allows the user to search the network hard disk for recorded videos.
			5. TVC-M1245E-2M-N(-P) shall use H.264 video compression to achieve extremely high video compression per megabyte on the hard disk.
				1. Image quality shall be user-selectable when the bit rate type is variable, on a scale of 1 through 6.
				2. Resolution options shall be 1280×960, 1280×720 and 640×480.
		1. Connections
			1. TVC-M1245E-2M-N(-P) shall include the following connectors:
				1. 1, RJ45 10 M / 100 M adaptive Ethernet port
		2. Ethernet communications
			1. TVC-M1245E-2M-N(-P) shall support LAN/WAN Ethernet access.
			2. TVC-M1245E-2M-N(-P) shall support 10/100 Base T networks.
			3. TVC-M1245E-2M-N(-P) shall support Dynamic IP Addressing (DHCP).
			4. TVC-M1245E-2M-N(-P) shall support Dynamic Domain Name Server (DDNS).
	1. TVC-M1245E-2M-N(-P) shall have the following additional specifications:
		1. Electrical
			1. Power supply: 12 VDC, PoE (IEEE 802.3af)
		2. Environmental
			1. Operating temperature range: -10 to +60 °C (14 to 140 °F)
			2. IP 66
		3. Physical
			1. Dimensions: 98 × 88.6 × 328.8 mm (3.86” 3.49” × 12.94”)
			2. Weight: 1700 g (3.75 lbs)
	2. TVC-M1245E-2M-N(-P) shall conform to these internationally recognized compliance standards:
		1. FCC
		2. CE
		3. UL
		4. C-Tick