

TVE-1610 H.264 IP 960H Encoder A&E Specifications



# The TVE-1610 16-channel digital video encoder shall work with up to 16 conventional analog cameras to encode and transmit video over a network.

# TVE-1610 shall be as manufactured by Interlogix.

# The TVE-1610 shall support the encoding of all images with a digital watermark. The verification of watermarked images shall reside solely with the manufacturer.

# TVE-1610 shall include, but not be limited to the following:

## TVE-1610 shall provide analog connections for the purpose of allowing users to integrate analog cameras products.

### TVE-1610 shall provide 16 channels of analog video encoding.

## TVE-1610 shall provide 16 audio channels.

## TVE-1610 shall provide dual streams on 16 channels.

## TVE-1610 shall incorporate Triplex functionality for simultaneous viewing, playback and recording (By web browser).

## TVE-1610 shall include search capabilities by web browser:

### Time

### Date

### Camera

## TVE-1610 shall provide a frame rate of 30 frames per second @ 60Hz (25 frames per second @ 50Hz) at the resolution of 960x480 (960x576).

## TVE-1610 shall be user configured via Ethernet with a personal computer running included, and a current version of the Internet Explorer web browser, Firefox, Chrome and Safari.

### TVE-1610 shall have an integrated web client interface to configure, upgrade, and view the following information:

#### View live and recorded video

#### View logs of system

#### Configure system settings, which include network settings, network HDD settings and alarm settings

#### Configure camera settings and user settings

#### View the system information

### Access to menus shall be set by user account privileges.

#### Operator accounts shall grant access to Remote view logs/status, Bi-directional audio, Live view, PTZ control and Playback.

#### Guest accounts shall grant access to Remote view logs/status and Playback.

#### Admin accounts shall grant access to all menus.

### Configurable options shall include:

#### Local Configuration

#### Video Search

##### Cameras

##### Date

##### Time

#### Display

##### Time/Date

##### Playback Time/Date

##### Camera Titles

##### Text Overlay

#### Users

##### Add User

##### Edit User

#### Cameras

##### Display Settings

##### Video Settings

##### Motion detection

##### Video Loss

##### Privacy Mask

##### Tamper-proof

##### Text Overlay

##### Holiday Settings

##### Snapshot

#### Alarms

##### System Notification

###### HDD Full

###### HDD Error

###### Network Disconnected

###### IP Address Conflicted

###### Invalid Login

###### Video Signal Exception

###### Record/capture Exception

##### Alarm Inputs/Outputs

###### Alarm Inputs

###### Alarm Outputs

#### IP Settings

##### TCP/IP

##### DDNS

##### Email

##### SNMP

##### Port

##### FTP

##### NetHDD

##### PPPoE

##### QoS

##### SOCKS

##### NAT

##### HTTPS

##### Bonjour

##### IP Address Filter

##### 802.1x

#### RS-485

#### RS-232

## TVE-1610 shall have one LED on the panel to indicate status.

### Power

#### The LED lights up red when the device is working.

#### The LED is not lit when the device is powered down.

### Tx/Rx

#### The LED is not lit when there is no network connection.

#### It lights up green and flashes when data is being transmitted/received.

# The digital encoder shall have the following operational features:

## Streaming

### Each TVE-1610 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.

#### TVE-1610 shall support multicasting to deliver source traffic to multiple receivers using the least amount of network bandwidth.

### TVE-1610 shall be able to display and record streamed video using TCP or UDP protocols.

### TVE-1610 shall support CGI, PSIA and ONVIF protocols.

## Recording

### TVE-1610 shall record video on multiple network hard drives. Two network hard disk drive options shall be available:

#### NAS

#### IP SAN

### TVE-1610 shall support the following user programmable record speeds:

#### 30/25 fps

#### 22 fps

#### 20 fps

#### 18 fps

#### 16 fps

#### 15 fps

#### 12 fps

#### 8 fps

#### 6 fps

#### 4 fps

#### 2 fps

#### 1 fps

#### 1/2 fps

#### 1/4 fps

#### 1/8 fps

#### 1/16 fps

### TVE-1610 shall support the following bit rate:32 kbps to 8192 kbps

### TVE-1610 shall be able to continue recording without disruption when the user adjusts the normal record speed.

### The user shall be able to play back videos smoothly at normal or fast speeds and in forward mode, without distortion.

### TVE-1610 shall include a Search Interface feature that allows the user to search the network hard disk for recorded videos.

### TVE-1610 shall use H264 video compression to achieve extremely high video compression per megabyte on the hard disk.

#### Image quality shall be user-selectable when the bit rate type is variable, on a scale of 1 through 6.

#### Resolution shall be user-selectable as QCIF, CIF, 2CIF, 4CIF or WD1.

## Connections

### TVE-1610 shall include the following connectors:

#### Accessory I/O ports

##### RS-485 (1), half-duplex

##### Alarm input (16)

##### Form C alarm relay (4)

##### RS-232(1)

#### Composite video in: 16-ch, BNC connector (1.0 Vp-p, 75 Ω) (PAL / NTSC adaptive)

##### Audio In: 16-ch(2.0 Vp-p, 1 kΩ)

##### Audio Out: 1-ch(Linear, 1 kΩ)

##### Network Port: 1, RJ45 10 M / 100 M adaptive Ethernet port

## Ethernet communications

### TVE-1610 shall support LAN/WAN Ethernet access.

### TVE-1610 shall support 10/100 Base T networks.

### TVE-1610 shall support Dynamic IP Addressing (DHCP).

### TVE-1610 shall support Dynamic Domain Name Server (DDNS).

# TVE-1610 shall have the following additional specifications:

## Video

### Horizontal resolution shall be 960 pixels.

### Vertical resolution shall be 480 active lines (NTSC) or 576 active lines (PAL).

## Audio

### Input: 2 Vp-p, 1 kΩ

#### 16 inputs available

### Output: Linear, 1 kΩ

#### 1 output available

### Compression standard: G.711u

## Electrical

### Power supply: 12 VDC

## Environmental

### Operating temperature range: -10 to +55 C° (14 to 131 °F)

### Relative humidity: 10 to 90%

## Physical

### Dimensions: 440 × 45 × 274 mm

### Weight: 4 kg

# TVE-1610 shall conform to these internationally recognized compliance standards:

## FCC

## CE

## UL

## C-Tick

## REACH

## RoHS

## WEEE

Contacting Support

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Web site:

[www.interlogix.com/customer-support](http://www.interlogix.com/customer-support)

EMEA:

See specific country listings at:

[www.utcfssecurityproducts.eu/support](http://www.utcfssecurityproducts.eu/support)