

TVE-420 H.265 IP Encoder A&E Specifications, Division 28 00 00 Electronic Safety and Security



Legend:

Spec/data varies according to individual model number.

Delete the section above and remove all highlighting before finalizing the spec.

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This A&E Specification conforms to CSI MasterFormat 2016 guidelines.

28 05 00 Common Work Results for Electronic Safety and Security

28 05 33 Safety and Security Network Communications Equipment

28 05 33.19 Security Data Communications Media Converters

# The TVE-420 shall support the encoding of all images with a digital watermark. The verification of watermarked images shall reside solely with the manufacturer.

# The TVE-420 shall include, but not be limited to, the following:

## TVE-420 shall provide analog connections for the purpose of allowing users to integrate analog cameras products.

### TVE-420 shall provide four channels of analog video encoding.

## TVE-420 shall provide four audio channels.

## TVE-420 shall provide dual streams.

## TVE-420 shall incorporate Triplex functionality for simultaneous viewing, playback and recording (by web browser).

## TVE-420 shall include search capabilities by web browser:

### Time

### Date

### Camera

## TVE-420 shall provide a frame rate of 30 frames per second @ 60 Hz (25 frames per second @ 50 Hz) at the resolution of 1080p/720p/WD1/4CIF/VGA/CIF, a frame rate of 12 frames per second at the resolution of 5MP, a frame rate of 15 frames per second at the resolution of 4MP, a frame rate of 18 frames per second at the resolution of 3MP.

## TVE-420 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-420 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

##### Camera Recording Settings

##### Camera OSD

##### Image Adjustment

##### Motion Detection

##### Privacy Mask

##### Camera Tamper

##### Text Overlay

##### PTZ Setup

##### Video Loss

#### Alarms

##### System Notification

###### HDD Full

###### HDD Error

###### Network Disconnected

###### Duplicate IP Address Found

###### Invalid Login

###### Record/Capture Exception

##### Alarm Inputs/Outputs

###### Alarm Inputs

###### Alarm Outputs

#### IP Settings

##### TCP/IP

##### DDNS

##### Email

##### SNMP

##### Port

##### FTP

##### Network Storage

##### PPPOE

##### QoS

##### NTP

##### UPnP

##### HTTPS

##### IP Address Filter

##### 802.1x

#### RS-485

## TVE-420 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.

# The digital encoder shall have the following operational features:

## Streaming

### Each TVE-420 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-420 shall support multicasting to deliver source traffic to multiple receivers using the least amount of network bandwidth.

### TVE-420 shall be able to display and record streamed video using TCP or UDP protocols.

#### TVE-420 shall support CGI, PSIA and ONVIF protocols.

## Recording

### TVE-420 shall record video on multiple network hard drives. Two network hard disk drive options shall be available:

#### NAS

#### IP SAN

### TVE-420 shall support the following user programmable record speeds:

#### 30/25 fps

#### 22 fps

#### 20 fps

#### 18 fps

#### 16 fps

#### 15 fps

#### 12 fps

#### 10fps

#### 8 fps

#### 6 fps

#### 4 fps

#### 2 fps

#### 1 fps

### TVE-420 shall support the following bit rate: 32 kbps to 8192 kbps

### TVE-420 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-420 shall include a Search Interface feature that allows the user to search the network hard disk for recorded videos.

### TVE-420 shall use H.265 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 5 MP/4 MP/3 MP/1080p/720p/WD1/4CIF/VGA/CIF.

## Connections

### TVE-420 shall include the following connectors:

#### Accessory I/O ports

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

##### Alarm input (4)

##### Form C alarm relay (2)

#### Composite video in: 4-ch, BNC connector (1.0 Vp-p, 75 Ω) (PAL / NTSC adaptive)

#### Audio In: 4-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-420 shall support LAN/WAN Ethernet access.

### TVE-420 shall support 10/100 Base T networks.

### TVE-420 shall support Dynamic IP Addressing (DHCP).

### TVE-420 shall support Dynamic Domain Name Server (DDNS).

28 05 45 Systems Integration and Interconnection Requirements

28 05 45.11 Mechanical

# Mechanical

## Dimensions: 162.5 × 114 × 47.5 mm (6.4 × 4.5 × 1.9 in.)

## Weight: 1.5 kg (3.3lb.)

28 05 45.13 Electrical

# Electrical

## Power supply: 12 VDC, PoE (802.3af)

28 05 45.15 Information

# Environmental

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

## Relative humidity: 10 to 90%

# Compliance

## FCC

## CE

## UL

## REACH

## RoHS

## WEEE

28 05 53 Identification for Electronic Safety and Security

# The TVE-420 4-channel digital video encoder shall work with up to four conventional analog cameras to encode and transmit video over a network.

# The TVE-420 shall be as manufactured by Interlogix.

Contacting Support

Web site:

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

North America:

1-855-286-8889

techsupport@interlogix.com

Latin America:

+1 561-998-6114

latam@interlogix.com

EMEA:

See specific country listings at:

<https://firesecurityproducts.com/en/contact>

Australia/New Zealand

<http://www.utcfs.com.au>

security.tech.support@interlogix.com.au