

TVB-5501 IP S5 Camera A&E Specifications, Division 28 00 00 Electronic Safety and Security



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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 07 Power Sources for Electronic Safety and Security

28 05 07.21 Poe Power Sources for Electronic Safety and Security

# TVB-5501 shall support PoE (802.3af) power supply.

28 05 21 Network Attached Storage for Electronic Safety and Security

# TVB-5501 shall record video on NAS.

28 05 45 Systems Integration and Interconnection Requirements

# Connections

## TVB-5501 shall include the following connectors:

### 1, RJ45 10 M / 100 M adaptive Ethernet port

### 1. 12VDC power connector

# Ethernet communications

## TVB-5501 shall support LAN/WAN Ethernet access.

## TVB-5501 shall support 10/100 Base T networks.

## TVB-5501 shall support Dynamic IP Addressing (DHCP).

## TVB-5501 shall support Dynamic Domain Name Server (DDNS).

28 05 45.11 Mechanical

# Mechanical

## Dimensions: 60 x 153 mm (2.3 x 6.0 in)

## Weight: 373 g

28 05 45.13 Electrical

# Electrical

## Power supply: 12 VDC ±25%, PoE (IEEE 802.3af)

## Max current: 0.56 A

## Max power consumption: 6 W

28 05 45.15 Information

# Environmental

## Operating temperature range: -30 to +60°C

## Enclosure ratings:

### IP67

# Compliance

## FCC

## CE

## UL

## C-Tick

## REACH

## RoHS

## WEEE

28 05 53 Identification for Electronic Safety and Security

# The TVB-5501 IP 3MPX Bullet cameras shall capture, encode, and transmit video over a network.

# The TVB-5501 shall be as manufactured by Interlogix.

28 20 00 Video Surveillance

28 21 00 Surveillance Cameras

28 21 13 IP Cameras

# The TVB-5501 shall support the encoding of all images with a digital watermark. The verification of watermarked images shall reside solely with the manufacturer.

# TVB-5501 shall include, but not be limited to the following:

## TVB-5501 shall provide network connections for the purpose of allowing users to integrate it with network storage products.

### TVB-5501 shall provide 1/2.8” Progressive Scan CMOS sensor.

### TVB-5501 shall provide digital encoded video stream.

## TVB-5501 shall support PoE power supply.

## TVB-5501 shall provide IR Cut filter.

## TVB-5501 shall provide WDR.

## TVB-5501 shall provide IR LED.

## TVB-5501 shall provide 4 mm @ F1.6 fixed lens.

## TVB-5501 shall provide 3D noise reduction function.

## TVB-5501 shall provide a Micro SD card for on-board storage.

## TVB-5501 shall provide a reset button.

## TVB-5501 shall provide three streams.

## TVB-5501 shall incorporate Triplex functionality for simultaneous viewing, playback, and recording (by web browser).

## TVB-5501 shall include search capabilities by web browser:

### Time

### Date

## TVB-5501 shall provide a frame rate of 30 frames per second @ 60 Hz (25 frames per second @ 50 Hz) at the resolution of 2048 × 1536

## TVB-5501 shall be user configured via Ethernet with a personal computer running included, and a current version of the Internet Explorer web browser.

### TVB-5501 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, and network HDD settings

#### Configure camera settings and user settings

#### View the system information

### Access to menus shall be set by user status.

#### Operator status shall grant access to change the configuration of his/her own account, and cannot create or delete other users.

#### Viewer status shall grant access to live view, playback modes as well as log search.

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

### Configurable options shall include:

#### Search

##### Date

##### Time

#### Archive

#### Display

##### Time/Date

##### Playback Time/Date

##### Camera Titles

##### Text Insertion

#### Users

##### Add User

##### Edit User

#### Cameras

##### Resolution, frame rate and bit rate

##### Motion detection

##### Camera Title and Date/Time

##### Record schedule

#### Image

##### Brightness

##### Contrast

##### Saturation

##### Sharpness

##### Iris Mode

##### Exposure Time

##### Day/Night Switch

##### Sensitivity

##### Delay Time

##### IR light

##### WDR

##### BLC

##### White Balance

##### Scene Mode

##### Digital Noise Reduction

##### Mirror

##### Hallway View

##### Scene Mode

##### Video Standard

#### Alarms

##### System Notification

###### HDD Error

###### HDD Full

###### Network Disconnected

###### IP Address conflicted

###### Illegal Login

##### Analytics

###### Face Detection

###### Cross Line

###### Intrusion Detection

###### Unattended Baggage Detection

###### Object Removal Detection

#### IP Settings

##### Basic Settings

##### DDNS

##### PPPoE

##### SNMP

##### 802.1X

##### QoS

##### FTP

##### UPnP

##### Email

##### NAT

##### Net

##### Platform Access

##### HTTPS

# The IP bullet camera shall have the following operational features:

## Streaming

### Each TVB-5501 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.

### TVB-5501 shall support multicasting to deliver source traffic to multiple receivers using the least amount of network bandwidth.

### TVB-5501 shall be able to display and record streamed video using TCP or UDP protocols.

### TVB-5501 shall support PSIA and ONVIF protocols.

## Recording

### TVB-5501 shall record video on multiple network hard drives.

### TVB-5501 shall support the following user programmable record speeds:

#### 30/25 fps

#### 22 fps

#### 20 fps

#### 18 fps

#### 16 fps

#### 15 fps

#### 12 fps

#### 10 fps

#### 8 fps

#### 6 fps

#### 4 fps

#### 2 fps

#### 1 fps

#### 1/2 fps

#### 1/4 fps

#### 1/8 fps

#### 1/16 fps

### TVB-5501 shall support the following bit rate: 32 kbps to 16 Mbps, or user-defined

### TVB-5501 shall allow the user to select whether the network hard drive recording should automatically overwrite data and how using one of two settings:

#### No overwrite

#### Continuous overwrite

### TVB-5501 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.

### TVB-5501 shall include a Search Interface feature that allows the user to search the network hard drive for recorded videos.

### TVB-5501 shall use H.265 video compression to achieve extremely high video compression per megabyte on the hard drive.

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

#### Resolution shall be 2048×1536, 1920x1080, 1280x960 (1280x720), 640x360, 352x288 (352x240).

Contacting Support

North America:

855-286-8889

[techsupport@interlogix.com](mailto:techsupport@interlogix.com)

Latin America:

561-998-6114

[latam@interlogix.com](mailto:latam@interlogix.com)

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)