

TruVision TVQ-8101/TVB-8101 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

# The cameras shall support a PoE (802.3af) power supply.

28 05 21 Network Attached Storage for Electronic Safety and Security

# The cameras shall record video on NAS.

28 05 45 Systems Integration and Interconnection Requirements

# Connections

## The cameras shall include the following connectors:

### 1, RJ45 10/100 Mbps auto-negotiate

### Alarm input and output (TVQ-8101 only)

# Ethernet communications

## The cameras shall support LAN/WAN Ethernet access.

## The cameras shall support 10/100 Base T networks.

## The cameras shall support Dynamic IP Addressing (DHCP).

## The cameras shall support Dynamic Domain Name Server (DDNS).

# Wi-Fi communications

## The cameras shall support IEEE 802.11b/g/n standards.

## The cameras shall support a frequency range of 2.4 to 2.4835 GHz.

## The cameras shall support a communication bandwidth of 20/40 MHz.

## The cameras shall support the 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, and WPS security protocols.

## The cameras shall support transmission rates of 11b: 11 Mbps, 11g: 54 Mbps, and 11n: up to 150 Mbps.

## The cameras shall support a transmission range of up to 50 m (varies depending on the actual working environment).

28 05 45.11 Mechanical

# TVQ-8101

## Dimensions: Ø 70 × 72.3 × 133.3 mm (Ø 2.8 × 2.8 × 5.2 in.)

## Weight: 400 g (0.88 lb.)

# TVB-8101

## Dimensions: Ø 70 × 157 × 62 mm (Ø 2.8 × 6.1 × 2.4 in.)

## Weight: 500 g (1.1 lb.)

28 05 45.13 Electrical

# Electrical

## Power supply: 12 VDC or PoE (IEEE 802.3af)

## Max current: 0.49 A (TVB-8101), 0.37 A (TVQ-8101)

## Max power consumption: 5.8 W (TVB-8101), 4.5 W (TVQ-8101)

28 05 45.15 Information

# Environmental

## Operating temperature range (TVB-8101): -22 to 140°F (-30 to 60°C)

## Operating temperature range (TVD-8101): -4 to 140°F (-20 to 60°C)

## Enclosure rating (TVB-8101):

### IP66

# Compliance

## FCC

## CE

## UL

## RCM

## REACH

## RoHS

## WEEE

## R&TTE

28 05 53 Identification for Electronic Safety and Security

# The TVQ-8101/TVB-8101 cameras shall capture, encode, and transmit video over a network.

# The TVQ-8101/TVB-8101 cameras shall be as manufactured by Interlogix.

28 20 00 Video Surveillance

28 21 00 Surveillance Cameras

28 21 13 IP Cameras

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

# The cameras shall include, but not be limited to the following:

## The cameras shall provide network connections for the purpose of allowing users to integrate it with network storage products.

### The cameras shall provide 1/2.8” Progressive Scan CMOS sensor.

### The cameras shall provide digital encoded video stream.

## The cameras shall support a PoE (IEEE 802.3af) power supply.

## The cameras shall provide IR Cut filter.

## The cameras shall provide Digital WDR.

## The cameras shall provide IR Led.

## The cameras shall provide a 2 to 4 mm @ f2.0 lens.

## The cameras shall provide a 3D noise reduction function.

## The cameras shall provide a Micro SD card for on-board storage.

## The cameras shall provide a reset button.

## The cameras shall provide two streams.

## The cameras shall incorporate Triplex functionality for simultaneous viewing, playback, and recording (by web browser).

## The cameras shall include search capabilities by web browser:

### Time

### Date

## The cameras shall provide a frame rate of 30 frames per second @ 60 Hz (25 frames per second @ 50 Hz) at the resolution of 1920×1080.

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

### The cameras 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

##### Hue

##### Sharpness

##### Iris Mode

##### Exposure Time

##### Day/Night Switch

##### Sensitivity

##### Delay Time

##### IR light

##### IR Cut Delay

##### WDR

##### BLC

##### White Balance

##### Digital Noise Reduction

##### Mirror

##### Hallway View

##### Video Standard

##### Capture Mode

#### Alarms

##### System Notification

###### HDD Error

###### HDD Full

###### Network Disconnected

###### IP Address conflicted

###### Illegal Login

##### Analytics

###### Intrusion Detection

###### Cross Line Detection

#### IP Settings

##### TCP/IP

##### DDNS

##### Port

##### NAT

##### QoS

##### FTP

##### HTTPS

##### Email

# The The cameras shall have the following operational features:

## Streaming

### The cameras 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.

### The cameras shall support multicasting to deliver source traffic to multiple receivers using the least amount of network bandwidth.

### The cameras shall be able to display and record streamed video using TCP or UDP protocols.

### The cameras shall support PSIA and ONVIF protocols.

## Recording

### The cameras shall record video on multiple network hard drives.

### The cameras 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

### The cameras shall support the following bit rate: 256 Kbps to 8 Mbps, or user-defined.

### The cameras 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.

### The cameras shall include a Search Interface feature that allows the user to search the Micro SD card or network hard drive for recorded videos.

### The cameras shall use H.264 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 1920×1080.

Contacting Support

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