

TVP-510x IP Compact PTZ 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

# TVP-5101 shall support 12 VDC power supply and PoE (802.3af) power supply.

# TVP-5102 shall support 24 VAC power supply and Hi-PoE power supply.

TVP-5103 shall support 12 VDC power supply and PoE+ (802.3at) power supply.

28 05 21 Network Attached Storage for Electronic Safety and Security

# TVP-510x shall record video on NAS.

28 05 45 Systems Integration and Interconnection Requirements

# Connections

## TVP-510x shall include the following connectors:

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

### Alarm input and output

### Audio in and Audio out

### RS-485 interface

### BNC output (only for TVP-5102)

# Ethernet communications

## TVP-510x shall support LAN/WAN Ethernet access.

## TVP-510x shall support 10/100 Base T networks.

## TVP-510x shall support Dynamic IP Addressing (DHCP).

## TVP-510x shall support Dynamic Domain Name Server (DDNS).

28 05 45.11 Mechanical

# Mechanical

## Dimensions

### TVP-5101: 125× 136.7 mm

### TVP-5102: 185 × 330 mm

### TVP-5103: 169 × 161 mm

## Weight

### TVP-5101: 0.65 kg

### TVP-5102: 4 kg

### TVP-5103: 2.45 kg

28 05 45.13 Electrical

# Electrical

## Power supply

### TVP-5101: 12 VDC ±10%, PoE (IEEE 802.3af)

### TVP-5102: 24 VAC, Hi-PoE

### TVP-5103: 12 VDC ±10%, PoE+ (IEEE 802.3at)

## Max. current

### TVP-5101: 1.1A

### TVP-5102: 2.2A with heater on

### TVP-5103: 2.3A with heater on

## Max. power consumption

### TVP-5101: 9 W

### TVP-5102: 32 W with heater on

### TVP-5103: 18 W with heater on

28 05 45.15 Information

# Environmental

## Operating temperature range

### TVP-5101: -10 to +50°C

### TVP-5102: -30 to +65°C with heater on

### TVP-5103: -30 to +65°C with heater on

## IP66 (only for TVP-5102 and TVP-5103)

# Compliance

## FCC

## CE

## UL

## REACH

## RoHS

## WEEE

28 05 53 Identification for Electronic Safety and Security

# The TVP-510x IP Compact PTZ cameras shall capture, encode and transmit video over a network.

# TVP-510x shall be as manufactured by Interlogix.

28 20 00 Video Surveillance

28 21 00 Surveillance Cameras

28 21 13 IP Cameras

# The TVP-510x shall support the encoding of all images with a digital watermark. The verification of watermarked images shall reside solely with the manufacturer.

# TVP-510x shall include, but not be limited to the following:

## TVP-510x shall provide network connections for the purpose of allowing users to integrate it with network storage products.

### TVP-510x shall provide:

|  |  |
| --- | --- |
| TVP-5101 | 1/2.8” Progressive Scan CMOS |
| TVP-5102 | 1/2.8” Progressive Scan CMOS |
| TVP-5103 | 1/2.8” Progressive Scan CMOS |

### TVP-510x shall provide digital encoded video stream.

## TVP-510x shall provide:

|  |  |
| --- | --- |
| TVP-5101 | 2.8 to 12mm @ F1.8 to F2.5 motor lens |
| TVP-5102 | 4.7 to 94mm @ F1.6 to F3.5 motor lens |
| TVP-5103 | 4.7 to 94mm @ F1.6 to F3.5 motor lens |

## TVP-510x shall provide 3D noise reduction function.

## TVP-510x shall provide a reset button.

## TVP-510x shall provide three streams.

## TVP-510x shall incorporate Triplex functionality for simultaneous viewing, playback and recording (by web browser).

## TVP-510x shall include search capabilities by web browser:

### Time

### Date

## TVP-510x shall provide a maximum frame rate and resolution of:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Frames per second at 50 Hz | Frames per second at 60 Hz | Resolution |
| TVP-5101 | 25 | 30 | 1920×1080 |
| TVP-5102 | 25 | 30 | 1920×1080 |
| TVP-5103 | 25 | 30 | 2048×1536 |

## TVP-510x shall be user configured via Ethernet with a personal computer running included, and a current version of the Internet Explorer web browser.

### TVP-510x 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

##### Exposure Mode

##### Limit Gain

##### Slow Shutter

##### Focus Mode

##### Min. Focus Distance

##### Day/Night Switch

##### IR Light Mode

##### BLC

##### WDR

##### HLC

##### White Balance

##### Digital Noise Reduction

##### Defog Mode

##### EIS

##### Mirror

##### Video Standard

##### Capture Mode

##### Lens Initialization

##### Zoom Limit

##### Local Output

#### Alarms

##### System Notification

###### HDD Error

###### HDD Full

###### Network Disconnected

###### IP Address conflicted

###### Illegal Login

##### Analytics

###### Cross Line Detection

###### Intrusion Detection

###### Audio Exception Detection

#### IP Settings

##### Basic Settings

##### DDNS

##### PPPoE

##### SNMP

##### 802.1X

##### QoS

##### FTP

##### UPnP

##### Email

##### NAT

##### Net HDD

##### HTTPS

##### Integration Protocol

# The IP Compact PTZ camera shall have the following operational features:

## Streaming

### Each TVP-510x 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.

#### TVP-510x shall support multicasting to deliver source traffic to multiple receivers using the least amount of network bandwidth.

### TVP-510x shall be able to display and record streamed video using TCP or UDP protocols.

### TVP-510x shall support PSIA and ONVIF protocols.

## Recording

### TVP-510x shall record video on NAS.

### TVP-510x shall support the following user programmable record speeds:

#### 25/30 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

### TVP-510x shall support the following bit rate: 256 kbps to 16 Mbps, or user-defined

### TVP-510x shall allow the user to select whether the network hard disk recording should automatically overwrite data and how using one of two settings:

#### No overwrite

#### Continuous overwrite

### TVP-510x 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.

### TVP-510x shall include a Search Interface feature that allows the user to search the network hard disk for recorded videos.

### TVP-510x 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 (only for TVP-5103), 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576 (704 × 480), 640 × 480 and 352 × 288 (352 × 240).

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