

TVF-1104/3104 3MPX Outdoor 360° Camera A&E Specifications, Division 28 00 00 Electronic Safety and Security



• ISS

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

# TVF-1104/3104 shall support PoE (802.3af) power supply.

28 05 21 Network Attached Storage for Electronic Safety and Security

# TVF-1104/3104 shall record video on NAS.

28 05 45 Systems Integration and Interconnection Requirements

# Connections

## TVF-1104/3104 shall include the following connectors:

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

### 1, built-in microphone and speaker

### 1, RS485 interface

### 1, 12 VDC power interface

# Ethernet communications

## TVF-1104/3104 shall support LAN/WAN Ethernet access.

## TVF-1104/3104 shall support 10/100 Base T networks.

## TVF-1104/3104 shall support Dynamic IP Addressing (DHCP).

## TVF-1104/3104 shall support Dynamic Domain Name Server (DDNS).

28 05 45.11 Mechanical

# Mechanical

## Dimensions: 167 × 45 mm

## Weight: 650 g

28 05 45.13 Electrical

# Electrical

## Power supply: 12 VDC ± 10% , PoE (IEEE 802.3af)

## Power consumption: Max. 12 W

28 05 45.15 Information

# Environmental

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

## IP66 weather-resistant and IK-10 vandal-resistant

# Compliance

## FCC

## CE

## UL

## C-TICK

## REACH

## RoHS

## WEEE

28 05 53 Identification for Electronic Safety and Security

# The TVF-1104/3104 shall capture, encode, and transmit video over a network.

# The TVF-1104/3104 shall be as manufactured by Interlogix.

28 20 00 Video Surveillance

28 21 00 Surveillance Cameras

28 21 13 IP Cameras

# The TVF-1104/3104 shall support the encoding of all images with a digital watermark. The verification of watermarked images shall reside solely with Interlogix.

# TVF-1104/3104 shall include, but not be limited to the following:

## TVF-1104/3104 shall provide network connections for the purpose of allowing users to integrate it with network storage products.

### TVF-1104/3104 shall provide a 1/1.8” Progressive Scan CMOS sensor.

### TVF-1104/3104 shall provide multiple digital encoded video streams.

## TVF-1104/3104 shall support PoE (802.3af) and 12 VDC power supply.

## TVF-1104/3104 shall provide a 1.27 mm @ F2.8 lens.

## TVF-1104/3104 shall provide ICR.

## TVF-1104/3104 shall provide 3D noise reduction function.

## TVF-1104/3104 shall provide a reset button.

## TVF-1104/3104 shall provide an SD card slot. The SD card slot type shall be up to 64 GB Micro SD/SDHC/SDXC.

## TVF-1104/3104 shall provide high-frame mode (one 360° or four PTZ streams) and multi-channel mode (five streams, one 360°, one panoramic, and three PTZ streams)

## TVF-1104/3104 shall incorporate Triplex functionality for simultaneous viewing, playback and recording (by web browser).

## TVF-1104/3104 shall include search capabilities by web browser:

### Time

### Date

## TVF-1104/3104 shall provide a frame rate of 25 frames per second @ 60Hz (25 frames per second @ 50Hz) at the resolution of 3072×2048.

## TVF-1104/3104 shall be user configured via Ethernet using a personal computer and a current version of the Internet Explorer web browser.

### TVF-1104/3104 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

#### Users

##### Add User

##### Edit User

#### Cameras

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

##### ROI

##### Motion Detection

##### Video Tampering

##### Camera Title and Date/Time

##### Record Schedule

#### Image

##### Brightness

##### Contrast

##### Saturation

##### Hue

##### Sharpness

##### Iris Mode

##### Exposure Time

##### Gain

##### Day/Night Switch

##### Sensitivity

##### Switch Time

##### Smart IR

##### IR Light Switch

##### WDR

##### BLC

##### White Balance

##### Digital Noise Reduction

##### Gray Scale

##### Video Standard

#### Alarms

##### System Notification

###### HDD Error

###### HDD Full

###### Network Disconnected

###### IP Address Conflicted

###### Invalid Login

#### IP Settings

##### Basic Settings

##### DDNS

##### PPPoE

##### SNMP

##### 802.1X

##### QoS

##### FTP

##### UPnP

##### Email

##### Net HDD

#### Heat Map Statistics: Daily, Weekly, Monthly, or Annual

##### Spatial heat map

##### Temporal heat map

# The IP 360° camera shall have the following operational features:

## Streaming

### Each TVF-1104/3104 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.

#### TVF-1104/3104 shall support multicasting to deliver source traffic to multiple receivers using the least amount of network bandwidth.

### TVF-1104/3104 shall be able to display and record streamed video using TCP or UDP protocols.

### TVF-1104/3104 shall support PSIA and ONVIF protocols. The PSIA protocol version shall be 1.1 and the ONVIF protocol version shall be 2.2.

## Recording

### TVF-1104/3104 shall record video on NAS.

### TVF-1104/3104 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

### TVF-1104/3104 shall support the following bit rate: 128 kbps to 16 Mbps, or user-defined.

### TVF-1104/3104 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

### TVF-1104/3104 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.

### TVF-1104/3104 shall include a Search Interface feature that allows the user to search the network hard disk for recorded videos.

### TVF-1104/3104 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 3072×2048, 2048×2048, 2048×1536, 1280×1280, and 1024×768.

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