

TruVision TVM-xxx2 LED Monitors 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 01 00 Operation and Maintenance of Electronic Safety and Security

28 01 20 Operation and Maintenance of Video Surveillance

# Operations

## The monitors shall support an on-screen display (OSD) interface using buttons on the monitor’s external case to configure monitor functions.

## The monitors shall support UTC cameras and recorders as well as TruVision Navigator.

## The monitors shall support PAL & NTSC with the Auto Detect feature.

## The monitors shall support high resolution 1920 × 1080 @ 60 Hz full HD.

## The monitors shall support the following image-related features:

### LED backlighting

### Wide viewing angle

### High contrast ratio

### Fast response time

### High brightness

### 3D comb filter and de-interlace

# Installation, usage, and maintenance

## The monitors shall be easy to install and set up. For most circumstances, setup shall consist of the following: Installation of the stand/mount

### Cable connection

### Power supply connection

### OSD setup

## The monitors shall support multi-language OSD.

## The monitors shall support VESA mounts/mounting (location centered on monitor body):

### 100 × 100 mm

## The monitors shall support high reliability with a high MTBF design.

## The monitors shall support OSD selectable 4:3 mode with a 16:9 aspect ratio monitor.

28 05 00 Common Work Results for Electronic Safety and Security

28 05 07 Power Sources for Electronic Safety and Security

28 05 07.13 Power Sources for Video Surveillance

# The monitor shall be provided with a built-in, full voltage power supply to support global usage. Depending on the product shipping location, the product will include a minimum 6 ft. power cord:

## US power cord to ship to Americas.

## EU and UK power cords to ship to EMEA.

## AU power cord to ship to AUS.

28 05 45 Systems Integration and Interconnection Requirements

# Connections

## The monitors shall include one each of the following connectors:

### VGA

### HDMI

### BNC input (except TVM-2212)

### BNC output (except TVM-2212)

### Stereo audio in (3.5 mm jack)

28 05 45.11 Mechanical

# Mechanical

## Dimensions:

|  |  |  |
| --- | --- | --- |
| Model | Without stand | With stand |
| TVM-2002 | 473 × 285 × 50 mm (19 × 11 × 2 in.) | 473 × 342 × 170 mm (19 × 13 × 7 in.) |
| TVM-2202 | 511 × 334 × 99 mm (20 × 13 × 4 in.) | 511 × 392 × 203 mm (20 × 15 × 8 in.) |
| TVM-2212 | 511 × 334 × 99 mm (20 × 13 × 4 in.) | 511 × 392 × 203 mm (20 × 15 × 8 in.) |
| TVM-2402 | 561 × 338 × 45 mm (22 × 13 × 2 in.) | 561 × 399 × 218 mm (22 × 16 × 9 in.) |
| TVM-2702 | 647 × 392 × 49 mm (25 × 15 × 2 in.) | 647 × 447 × 249 mm (25 × 18 × 10 in.) |
| TVM-3202 | 728 × 433 × 51 mm (29 × 17 × 2 in.) | 729 × 541 × 237 mm (29 × 21 × 9 in.) |
| TVM-4002 | 907 × 522 × 48 mm (36 × 21 × 2 in.) | 907 × 581 × 237 mm (36 × 23 × 9 in.) |

## Weight:

|  |  |  |
| --- | --- | --- |
| Model | Without stand | With stand |
| TVM-2002 | 2.4 kg (5 lb.) | 2.8 kg (6 lb.) |
| TVM-2202 | 3.3 kg (7 lb.) | 3.9 kg (9 lb.) |
| TVM-2212 | 3.3 kg (7 lb.) | 3.9 kg (9 lb.) |
| TVM-2402 | 3.5 kg (8 lb.) | 3.9 kg (9 lb.) |
| TVM-2702 | 5.5 kg (12 lb.) | 5.9 kg (13 lb.) |
| TVM-3202 | 5.8 kg (13 lb.) | 8.2 kg (18 lb.) |
| TVM-4002 | 8.5 kg (19 lb.) | 11 kg (25 lb.) |

28 05 45.13 Electrical

# Electrical

## Input voltage: 100 to 240 VAC.

## Power consumption:

|  |  |
| --- | --- |
| TVM-2002 | < 30 W |
| TVM-2202 | < 30 W |
| TVM-2212 | < 30 W |
| TVM-2402 | < 30 W |
| TVM-2702 | < 40 W |
| TVM-3202 | < 45 W |
| TVM-4002 | < 60 W |

28 05 45.15 Information

# Environmental

## Operating temperature range 0 to 40°C (32 to 104℉), Relative humidity 10 to 90%.

## Relative humidity: 10 to 85% (non-condensing).

# Compliance

## FCC

## CE

## RCM

## UL

## WEEE

## RoHS

## REACH

28 51 00 Information Management & Presentation

28 51 19 Control Room and Monitoring Equipment

28 51 19.11 Display/Workstations

# Hardware

## The monitor shall be capable of displaying on-screen text and menus in more than one language. This shall be user-selectable via the menu system.

## The monitor shall have robust buttons integrated into the unit, used for menu navigation, setup, and control of the unit, with no need for an external control device.

## Certain monitors are operable via remote control (TVM-2702 / 3202 / 4002 only).

## The monitor shall have a robust, illuminated LED integrated into the front panel of the unit.

### Status LEDs

#### Power: A steady green light indicates that the monitor is powered on.

# Monitor Features

## Description:

|  |  |
| --- | --- |
| TVM-2002 | TruVision™ LED 20” Class Full HD Monitor, HDMI/VGA/BNC |
| TVM-2202 | TruVision™ LED 22” Class Full HD Monitor, HDMI/VGA/BNC |
| TVM-2212 | TruVision™ LED 22” Class Full HD Monitor, HDMI/VGA |
| TVM-2402 | TruVision™ LED 24” Class Full HD Monitor, HDMI/VGA/BNC |
| TVM-2702 | TruVision™ LED 27” Class Full HD Monitor, HDMI/VGA/BNC |
| TVM-3202 | TruVision™ LED 32” Class Full HD Monitor, HDMI/VGA/BNC |
| TVM-4002 | TruVision™ LED 40” Class Full HD Monitor, HDMI/VGA/BNC |

## System on Chip (SOC): MST V59 (TVM-2212 only: MST 58CDT9)

# Specifications

## Video

### Panel size and type shall be:

|  |  |
| --- | --- |
| TVM-2002 | 19.53-inch LED backlit |
| TVM-2202 | 21.5-inch LED backlit |
| TVM-2212 | 21.5-inch LED backlit |
| TVM-2402 | 23.6-inch LED backlit |
| TVM-2702 | 27-inch LED backlit |
| TVM-3202 | 31.5-inch LED backlit |
| TVM-4002 | 39.5-inch LED backlit |

### Pixel pitch (mm) shall be:

|  |  |
| --- | --- |
| TVM-2002 | 0.2265(H) × 0.221(V) |
| TVM-2202 | 0.24825(H) × 0.24825(V) |
| TVM-2212 | 0.24825(H) × 0.24825(V) |
| TVM-2402 | 0.2715(H) × 0.2715(V) |
| TVM-2702 | 0.3114(H) × 0.3114(V) |
| TVM-3202 | 0.12125(H) × 0.36375(V) |
| TVM-4002 | 0.15245(H) × 0.4494(V) |

### Aspect ratio shall be 16:9.

### Viewing angle (H/V) shall be:

|  |  |
| --- | --- |
| TVM-2002 | 178°/178° |
| TVM-2202 | 170°/160° |
| TVM-2212 | 170°/160° |
| TVM-2402 | 170°/160° |
| TVM-2702 | 170°/160° |
| TVM-3202 | 178°/178° |
| TVM-4002 | 178°/178° |

### The contrast ratio shall be:

|  |  |
| --- | --- |
| TVM-2002 | 3000:1 |
| TVM-2202 | 1000:1 |
| TVM-2212 | 1000:1 |
| TVM-2402 | 1000:1 |
| TVM-2702 | 1000:1 |
| TVM-3202 | 1000:1 |
| TVM-4002 | 5000:1 |

### The response time shall be:

|  |  |
| --- | --- |
| TVM-2002 | 20 ms |
| TVM-2202 | 5 ms |
| TVM-2212 | 5 ms |
| TVM-2402 | 5 ms |
| TVM-2702 | 5 ms |
| TVM-3202 | 8 ms |
| TVM-4002 | 9.5 ms |

### Brightness (candela per square meter) shall be:

|  |  |
| --- | --- |
| TVM-2002 | 250 cd/m2 |
| TVM-2202 | 250 cd/m2 |
| TVM-2212 | 250 cd/m2 |
| TVM-2402 | 250 cd/m2 |
| TVM-2702 | 300 cd/m2 |
| TVM-3202 | 300 cd/m2 |
| TVM-4002 | 360 cd/m2 |

### The monitors shall support high resolution 1920 × 1080 @ 60 Hz full HD.

### Refresh rate (vertical frequency) shall be 60, 70, 75 Hz depending on resolution.

### Color depth shall be 24 bits; 16.7 million colors.

### Video compatibility shall be NTSC/PAL auto detect.

## Audio

### There shall be one stereo audio input (3.5 mm jack)

### Audio speaker power shall be:

|  |  |
| --- | --- |
| TVM-2002 | 1.5 W × 2 |
| TVM-2202 | 1.5 W × 2 |
| TVM-2212 | 2 W × 2 |
| TVM-2402 | 2 W × 2 |
| TVM-2702 | 2 W × 2 |
| TVM-3202 | 2 W × 2 |
| TVM-4002 | 2 W × 2 |

## Remote control

### The monitor shall have an IR-remote that will emulate the front panel keys (TVM-2702 / 3202 / 4002 only).

Contacting Support

North America:

855-286-8889

techsupport@interlogix.com

Latin America:

561-998-6114

latam@interlogix.com

Web site:

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

EMEA:

See specific country listings at:

[www.utcfssecurityproducts.com/CustomerSupport](http://www.utcfssecurityproducts.com/CustomerSupport)