

# TMX-0404SDI2

## 4x4 High Definition Digital Video Tracking Matrix Switcher



### Features

- **Routing: 4x4 High Definition Digital Video Tracking Matrix Switcher**
- **Video interface: BNC female**
- **Data rates : 143 Mbps~2.97 Gbps**
- **Compatible with SMPTE 259 M, SMPTE 292 M, SMPTE 344 M, SMPTE 424 M and DVB-ASI (270 Mbps)**
- **Input equalization and clock recovery, output pre-emphasis**
- **RS-232 control, supporting RS-232 protocols, for connection with central control system**
- **Two RS-422 control port with built-in professional camera control protocols, a variety of professional cameras like TAIDEN HCS-3316HDB, SONY, PELCO and Panasonic can be controlled**
- **One TAINET interface for connection with TAIDEN conference system**
- **One RJ45 interface for TCP/IP connection**
- **Power-off protection for scene status**
- **LCD to display real-time operation**
- **Front panel button control , easy to switch manually**
- **Front panel keyboard lockup and protection function**
- **Scene save and recall function**
- **1U high, full rack width**

### Technical Specifications

#### Video

Data rates .....143 Mbps ~ 2.97 Gbps  
 Data types ..... 8 bit or 10 bit  
 Compatible standards ..... SMPTE 259 M, SMPTE 292 M,  
 SMPTE 344 M, SMPTE 424M,  
 DVB-ASI (270 Mbps)

#### Video input

Connectors ..... 4 × BNC female  
 Input level ..... 0.7 V - 1.2 Vp-p  
 Input cable equalization ..... Typical equalization cable length  
 (RG60/ Ø1.0 mm standard cable)  
 50 m@2.97 Gbps(odd channel)  
 60 m@2.97 Gbps(even integer channel)  
 90 m@1.485 Gbps  
 Nominal level ..... 0.8 Vp-p  
 Impedance ..... 75 Ohm  
 Return loss ..... 20~30 dB@5 MHz to 1.5 GHz

#### Video output

Connectors ..... 4 × BNC double-decker female  
 Nominal level ..... 0.8 V ± 7%  
 Output level ..... 0.5 V - 1.6 Vp-p  
 Impedance ..... 75 Ohm  
 Return loss ..... >15 dB@5 MHz to 1.5 GHz  
 DC offset ..... ± 100 mV with no offset at input  
 Jitter ..... 20~30 ps@HD/3G rate  
 40~60 ps@SD rate  
 Rise and fall time (20~80%) ..... SD: 600 ps  
 HD/3G: 100 ps

#### Control

##### To central control system:

COM (RS-232) ..... RS-232, 9 pin female D connector  
 COM1 ..... Baudrate: 115200, data: 8 bits, stop: 1 bit, no parity  
 RJ45 ..... TCP/IP  
 TAINET ..... Baudrate: 19200, to main unit  
 RS422 ..... Baudrate: 9600, to dome camera  
 RS232 ..... Baudrate: 9600, to control keypad

#### General specs

Power supply ..... AC 100 V - 240 V, 50 Hz / 60 Hz  
 Temperature ..... Operating: 0 °C to + 50 °C;  
 storage: -20 °C to + 70 °C  
 Humidity ..... Storage and operating: 10% to 90%  
 Dimensions h × w × d (mm) ..... 43 × 483 × 208  
 (1U high, full rack width)  
 Weight ..... 2.7 kg  
 Color ..... Gray (PANTONE 425 C)  
 Mean time between failures ..... 30,000 hours

#### Ordering Information

TMX-0404SDI2 ..... 4x4 High Definition Digital Video  
 Tracking Matrix Switcher (SD/HD/3G)







# TMX-1608SDI2

## 16x8 High Definition Digital Video Tracking Matrix Switcher



### Features

- **Routing: 16x8 High Definition Digital Video Tracking Matrix Switcher**
- **Video interface: BNC female**
- **Data rates : 143 Mbps~2.97 Gbps**
- **Compatible with SMPTE 259 M, SMPTE 292 M, SMPTE 344 M, SMPTE 424 M and DVB-ASI (270 Mbps)**
- **Input equalization and clock recovery, output pre-emphasis**
- **RS-232 control, supporting RS-232 protocols, for connection with central control system**
- **Two RS-422 control port with built-in professional camera control protocols, a variety of professional cameras like TAIDEN HCS-3316HDB, SONY, PELCO and Panasonic can be controlled**
- **One TAINET interface for connection with TAIDEN conference system**
- **One RJ45 interface for TCP/IP connection**
- **Power-off protection for scene status**
- **LCD to display real-time operation**
- **Front panel button control , easy to switch manually**
- **Front panel keyboard lockup and protection function**
- **Scene save and recall function**
- **1U high, full rack width**

### Technical Specifications

#### Video

Data rates .....143 Mbps ~ 2.97 Gbps  
 Data types ..... 8 bit or 10 bit  
 Compatible standards ..... SMPTE 259 M, SMPTE 292 M,  
 SMPTE 344 M, SMPTE 424M,  
 DVB-ASI (270 Mbps)

#### Video input

Connectors ..... 16 x BNC female  
 Input level ..... 0.7 V ~ 1.2 Vp-p  
 Input cable equalization ..... Typical equalization cable length  
 (RG60/ Ø1.0 mm standard cable)  
 50 m@2.97 Gbps(odd channel)  
 60 m@2.97 Gbps(even integer channel)  
 90 m@1.485 Gbps  
 Nominal level ..... 0.8 Vp-p  
 Impedance ..... 75 Ohm  
 Return loss ..... 20~30 dB@5 MHz to 1.5 GHz

#### Video output

Connectors ..... 8 x BNC double-decker female  
 Nominal level ..... 0.8 V ± 7%  
 Output level ..... 0.5 V ~ 1.6 Vp-p  
 Impedance ..... 75 Ohm  
 Return loss ..... >15 dB@5 MHz to 1.5 GHz  
 DC offset ..... ± 100 mV with no offset at input  
 Jitter ..... 20~30 ps@HD/3G rate  
 40~60 ps@SD rate  
 Rise and fall time (20~80%) ..... SD: 600 ps  
 HD/3G: 100 ps

#### Control

##### To central control system:

COM (RS-232) ..... RS-232, 9 pin female D connector  
 COM1 ..... Baudrate: 115200, data: 8 bits, stop: 1 bit, no parity  
 RJ45 ..... TCP/IP  
 TAINET ..... Baudrate: 19200, to main unit  
 RS422 ..... Baudrate: 9600, to dome camera  
 RS232 ..... Baudrate: 9600, to control keypad

#### General specs

Power supply ..... AC 100 V - 240 V, 50 Hz / 60 Hz  
 Temperature ..... Operating: 0 °C to + 50 °C;  
 storage: -20 °C to + 70 °C  
 Humidity ..... Storage and operating: 10% to 90%  
 Dimensions h x w x d (mm) ..... 43 x 483 x 208  
 (1U high, full rack width)  
 Weight ..... 3.2 kg  
 Color ..... Gray (PANTONE 425 C)  
 Mean time between failures ..... 30,000 hours

#### Ordering Information

TMX-1608SDI2 ..... 16x8 High Definition Digital Video  
 Tracking Matrix Switcher (SD/HD/3G)

**System Connection**

