

# TMX-0404SDI 4x4 High Definition Digital Video Tracking Matrix Switcher



## Features

- **Routing: 4x4 High Definition Digital Video Tracking Matrix Switcher**
- **Video interface: BNCx1 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**
- **If input has no signal, the input and output will automatically shut down to reduce current consumption**
- **RS-232 control, supporting RS-232 protocols, for connection with central control system**
- **One RS-422/485 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  
 (Belden 1694A standard cable)  
 100 m@2.97 Gbps  
 200 m@1.485 Gbps  
 400 m@270 Mbps  
 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 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: 9600, data: 8 bits, stop: 1 bit, no parity

#### Video track off:

RJ45.....TCP/IP  
 RS422/RS485.....Invalidation

#### Video track on:

RJ45.....Invalidation  
 TAINET baudrate and protocol.....Baudrate: 19200, to main unit  
 RS422/RS485.....Baudrate: 9600, to dome camera

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





**System Connection**

