

# TMX-0808SDI2

## 8x8 High Definition Digital Video Tracking Matrix Switcher



### Features

- Routing: 8x8 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-3316HDN, 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.....8 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.....3.0 kg  
 Color.....Gray (PANTONE 425 C)  
 Mean time between failures.....30,000 hours

### Ordering Information

TMX-0808SDI2.....8x8 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G)