

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



Features

- Routing: 4×4 High Definition Digital Video Tracking Matrix Switcher
- Video interface: BNC×1 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-3313C, 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.....4×4 High Definition Digital Video Tracking
 Matrix Switcher (SD/HD/3G)