TMX-0404SDI2
4×4 High Definition Digital Video Tracking Matrix Switcher

Features

- **Routing: 4×4 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-3316HDNB, 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 ..... 4×4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G)