

TEK

Transmitter: FO-4-31DT(XX)

Receiver: FO-4-31DR(XX)



4 Channel Video Optic Transceiver

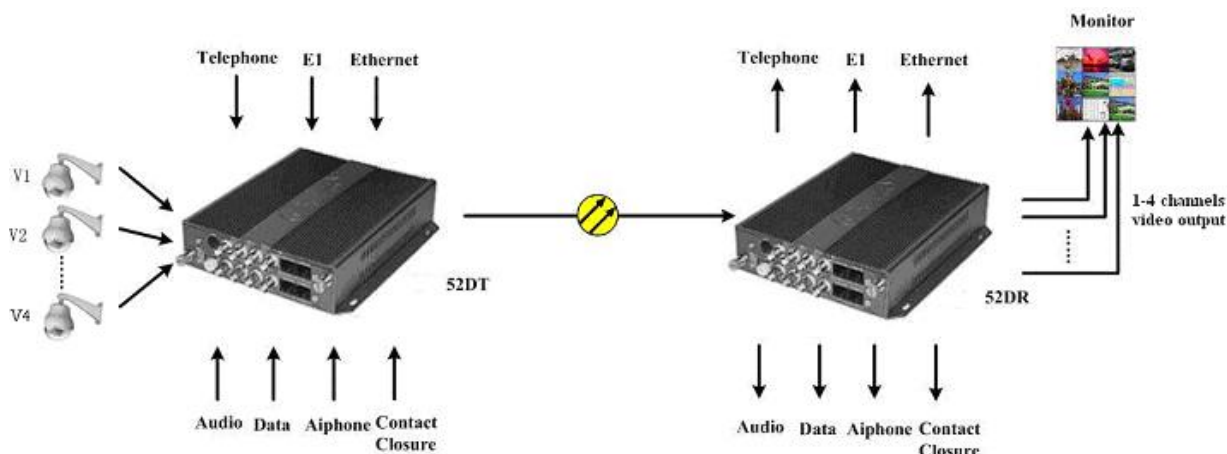
FO-4-31D series can transmit 4 channel composite video, 1 to 6 channel duplex audio, or 1 to 4 channel of duplex data/ contact closure signal or in any combination over one fiber; and it can provide option of 1 to 4 channel 10M/100M Ethernet / E1, 1 to 8 channel telephone/Intercom signal.



Features

- Exceeds the RS250C standard for SNR, DG and DP
- Bandwidth up to 6 MHz, SNR \geq 67dB
- The video quality is independent of transmission distance and up to the maximum optical loss.
- 8/10 bit digital PCM video coding
- Compatible with NTSC, PAL and SECAM
- Distance option of up to 120KM is possible
- Super optical dynamic range, 0Km is not saturated
- Supported by TEK network management system
- Two RJ45 ports with option of plug-in interfaces in any combination
- 24-bit digital audio, 75dB SNR
- High-speed optical fiber digital transmission technology
- RS232, RS422, RS485 or Manchester data
- Data transmission rate DC to 256kbps
- Power supply, fiber link, data state indication
- Surface mount technology (SMT)
- Rack-mount/stand-alone/19" 1U Rack mount Enclosure

Typical Applications



Specifications

Video

Video channel	4
Video format	NTSC, PAL, SECAM
Voltage	1V _{p-p} , 75Ω
Max-input voltage	1.5V _{p-p} , 75Ω
Bandwidth	6 MHz
Differential gain	≤1%
Differential phase	≤1°
Video SNR:	≥67 dB
Encoding	8/10 bit PCM

Audio

Frequency Response	50Hz - 20kHz
Audio SNR	≥75dB
Audio coding	24 BIT digital audio
Sample resolution	48k

Data

Data type	RS232,RS422,RS485, Manchester
Baud rate	0-115.2 kbps
Bit error rate	10 ⁻⁹
Optional Signals	Contact Closure, E1, Telephone, AIPHONE

Ethernet

Standard	IEEE802.3
Data rate	10M/100M adaptive

Environment

MTBF	>100,000 hours
Operating temperature	-30°C to 74°C
Storage temperature	-40°C to 85°C
Humidity	0~95% non-condensing

Connector

Video	BNC
Optical	FC / ST / SC
Data	RJ45 / Terminal Block
Power	4-pin Self-lock Interface

Electrical and Mechanical

Power	Standalone :+5.5VDC Rack mount: from FO-18 chassis
Dimensions	Standalone: 182x201 x28mm
Weight	Standalone: 1KG Rack mount: 0.3KG
No. of rack slots	1

Optical Power Budget

Fiber type	Transceiver Type	Receiver Type	Optical Power Budget (dB)	Transmission Distance (km)
Multi-mode	FO31DT(XX)-2KM-FC-M-A	FO31DR(XX)-2KM-FC-M-A	11	2
Single mode	FO31DT(XX)-20KM-FC-S-A	FO31DR(XX)-20KM-FC-S-A	10	20
Single mode	FO31DT(XX)-40KM-FC-S-A	FO31DR(XX)-40KM-FC-S-A	15	40
Single mode	FO31DT(XX)-60KM-FC-S-A	FO31DR(XX)-60KM-FC-S-A	21	60
Single mode	FO31DT(XX)-80KM-FC-S-A	FO31DR(XX)-80KM-FC-S-A	29	80