

Digital Video Audio/Data Multiplexer

VADT/VADR-9004

For Transmitting 4 Video, 8 Audio Channels, & 4 Data Channels

The **LiteLink**® VADT/VADR-9004 system consists of the VADT-9004 transmitter and VADR-9004 receiver. Both units utilize pure digital 10 bit encoded modulation to transmit 4 individual high quality video signals, 4 hi-fi stereo (or 8 mono) audio channels, and 4 data channels on a single fiber. Video signals are in accordance with NTSC, PAL and SECAM specifications. Audio channels can be balanced or unbalanced. Data can be RS-232, RS-422 or TTL as specified by the user

Both multi-mode and single-mode versions are available and installation is adjustment free. In addition, indicators are provided on both units to continuously indicate the presence of video, audio and digital signals as well as the presence of operating power making system troubleshooting simple.



Technical Specifications

Video Channels (4)

Bandwidth	8 MHz (+0, -3dB)
Input / Output Impedance	75 Ohms (BNC)
Input / Output Level	1 Volt pp NTSC (1.3V PAL)
Signal/Noise Ratio	64 dB minimum
Differential Phase	< 0.5°
Differential Gain	< 0.5%
Field Tilt	< 0.5%
Luminance Non-linearity	< 1.0%

Audio Channels (8)

Bandwidth	20 Hz to 20 KHz
Signal/Noise Ratio	90 dB minimum
THD	< 0.05%
Input / Output Impedance	600 Ohms Balanced or Unbalanced

Data Channels (4)

Protocol	RS-232, RS-422, or TTL
Data Rate	1.5Mb/s maximum

General

Inter-channel Crosstalk	< 75 dB
Operating Wavelength	1310 or 1550nm
Optical Loss Budget	0-19 dB (single-mode)
Optical Connectors	ST multimode, FCPC single-mode
Operating Temperature	-30° to +70°C
Humidity	<95% non condensing
MTBF (per MIL HBK 217)	>120,000 hours
Power Requirements	12 VDC @0.8 Amperes
Physical Size (mm)	11.6"(295) x 5.2"(133) x 2"(51)

Note that all specifications are subject to change without prior notice.

Important Features

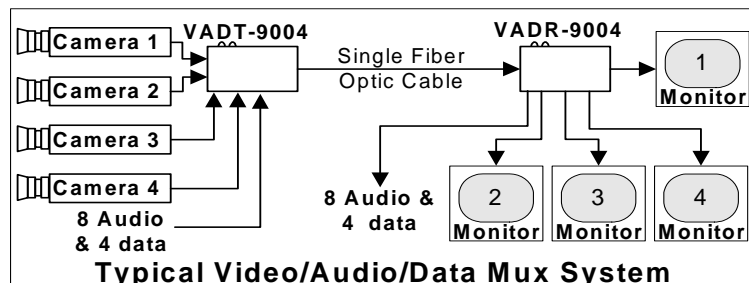
- **Pure Digital Modulation**
10 Bit Video,
24 bit Audio
- **Broadcast Specifications**
- **Signal & Power Indicators**
- **Multimode or Single-mode versions**

Ordering Information

Transmitter	VADT-9004-X
Receiver	VADR-9004-X

Where X = Wavelength/Fiber
-3 = 1310nm Multimode
-7 = 1310nm Single-mode
-9 = 1550nm Single-mode

Note that the data format has to be specified when ordering



Litelink®

Fiber Optic Transmission Systems

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