



Composite Video Transmission

The Optiva OTP-8V provides for the transmission of 8 channels of 12-Bit composite video, over long or short distances, using a single fiber.

In addition, the OTP-8V is part of our innovative Optiva video, audio and data media transport system. Optiva was designed to maintain lossless fiber extension between input and output signals. New signals may be added without the need for additional fiber through our proprietary daisy-chain technology. The Optiva line of products also includes insert cards for up to 16 channels of multiplexing / demultiplexing, 16x16 matrix switching, optical add / drop, as well as remote system monitoring.

Features

- SMPTE Compliant
- Composite Video over Fiber
- Singlemode Options (up to 70 km)
- Multimode Options (up to 3 km)
- TDM - Single Wavelength
- No EMI, RFI, or Ground Loops
- 3-Year Warranty

Applications

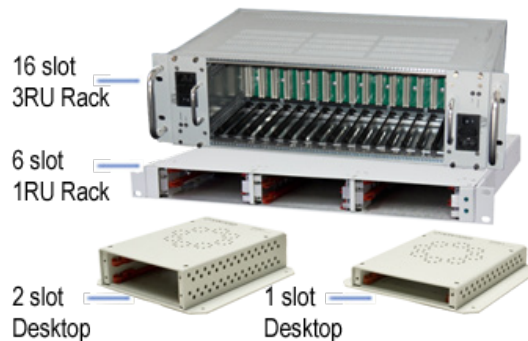
- High-Quality Video Security Systems
- Video Surveillance
- Train/Rail Station Camera Systems
- CCTV Applications
- Optical NTSC/PAL Video Switching

System Design

Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosures (Models: OT-CC-16 & OT-CC-16F) can support up to 16 insert cards as well as dual-redundant, hot-swappable power supplies utilizing two 100 watt or two 200 watt power supplies. Also available in the rackmount form factor is our 1RU enclosure (Model: OT-CC-6-1U) which can accommodate six insert cards and utilizes two 60 watt power supplies. For desktop or wall mounting applications there are one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures. Both use an external wall mount power supply.

optiva PLATFORM

Enclosure Options



U.S. Patent #'s 7720385 & 8064773

DATASHEET **FIBER OPTICS**

Models

Transmitter	Receiver
OTP-8VT-A0-XX	OTP-8VR-A0-XX
OTP-8VT-A1-XX	OTP-8VR-A1-XX
OTP-8VT-A2-XX	OTP-8VR-A2-XX
OTP-8VT-A2D-XX	OTP-8VR-A2D-XX
OTP-8VT-A3-XX	OTP-8VR-A3-XX
OTP-8VT-A3D-XX	OTP-8VR-A3D-XX
OTP-8VT-L4x1-XX	OTP-8VR-L4x1-XX
OTP-8VT-NOC	OTP-8VR-NOC

■ For ordering, please substitute "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.

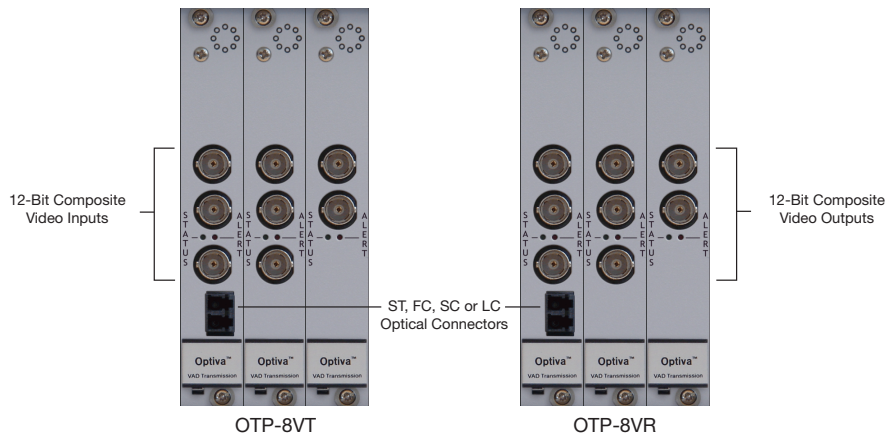
Optical Specifications

Code	Fiber Type	Wavelength	Optical Budget	Distance
A0	Multimode	850 nm	5 dB	0.5 km
A1	Multimode	1310 nm	10 dB	3 km
A2	Singlemode	1310 nm	7 dB	10 km
A2D	Singlemode	1310 nm	14 dB	20 km
A3	Singlemode	1550 nm	17 dB	40 km
A3D	Singlemode	1550 nm	25 dB	60 km
L4x1	Singlemode	CWDM	Varies	20-70 km

■ Chromatic dispersion as well as other losses should also be taken into account

■ Stated distances are the maximum range, shorter distance may require attenuation

Connection Diagram



Video

Specifications	Values
Standards	SMPTE 170, RS-250C (Short Haul)
Bit Resolution	12-Bit Digital Transmission
Level	1.0 Volt p-p
Bandwidth	5.5 MHz
Differential Gain	< 2%
Differential Phase	< 0.7°
Compatibility	NTSC, PAL, SECAM
Signal to Noise Ratio	> 67 dB
Connector	BNC (IEC 60169-8)

General

Specifications	Values
Dimensions (Insert Card)	6.69" L x 0.81" W x 5.06" H
Weight	11 oz.
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% Non-Condensing
Operating Voltage	12 VDC
Power Consumption	6 Watts
BER	10 ⁻¹⁴
System Latency	< 1 ms
Warranty	3 year

Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators
Remote	OptivaView SNMP Management Suite*

■ Requires OptivaView SNMP Controller Card (Model: OPV-CTLR)

Compliance

