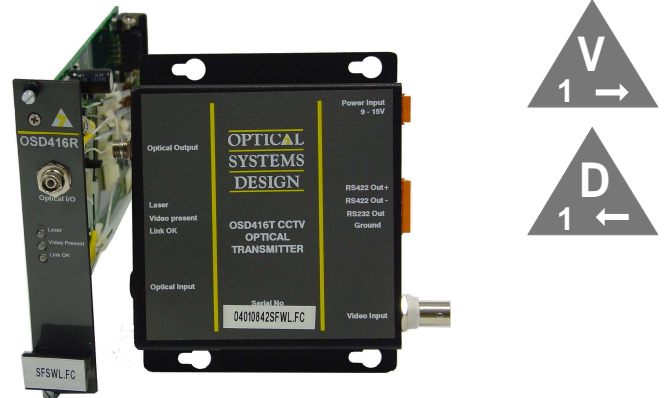


APPLICATIONS

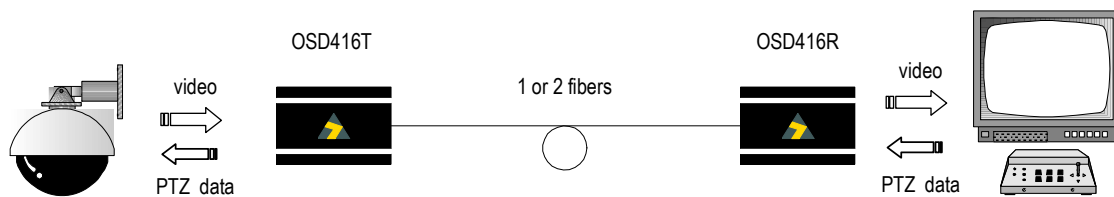
- ▲ CCTV networks requiring only one way data transmission from the control centre to the cameras



FEATURES AND BENEFITS

- ▲ Fiber optic transmission of video from the camera plus a data signal to the camera.
- ▲ Remote control of Pan, Tilt and Zoom for video surveillance.
- ▲ Operating range of at least 5km on multimode and 50km on singlemode fiber with standard devices and greater than 100km with optional lasers.
- ▲ Low cost single fiber operation on either multimode or singlemode fiber is available.
- ▲ Video bandwidth of 10MHz
- ▲ Immunity to electrical interference, low radiation with complete end-to-end isolation.
- ▲ Safe transmission in hazardous environments.

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

OSD416T Video transmitter with data to camera
 OSD416R Video receiver with data to camera
 Option C Module version
 Option L 1310nm operation singlemode or multimode

Option W Single fiber WDM operation
 Option LD1 -10dBm 1310nm laser
 Option LD2 -5dBm 1310nm laser



SPECIFICATIONS

ELECTRICAL

Video Input/Output Impedance	75Ω
Video Input/Output Level	1Vpp nominal
Video Connector	BNC
Video Bandwidth	5Hz to 10MHz (+1,-3dB)
Weighted Signal to Noise Ratio	>60dB at -25dBm received optical power >50dB at -30dBm received optical power
Data Interface	TTL, RS232, RS422, RS485 31kHz Manchester or Biphase
Data Rate	One way DC to >100kbps
Data Connector	4 way terminal block with screw clamps
Power Connector	2 way terminal block with screw clamps

OPTICAL

Transmitter Wavelength	850nm (1310nm for OSD416TL and OSD416RL)
Receiver Operating Wavelength	800 to 900nm (1270 to 1580nm for OSD416TL and OSD416RL)
OSD416T Transmitter Coupled Power	-15 to -11dBm into multimode fiber (OSD416T) -13 to -11dBm into singlemode fiber (OSD416TL only)
OSD416T Received Data Sensitivity	<-37dBm for a BER of $<1 \times 10^{-9}$
OSD416R Transmitter Coupled Power	-20 to -10dBm into multimode fiber (OSD416R) -20 to -12dBm into singlemode fiber (OSD416RL only)
OSD416R Sensitivity	<-30dBm for >50dB video SNR
OSD416R Receiver Saturation	>-10dBm
Transmission Distance	>5km for multimode, >50km for singlemode
Optical Connectors	ST standard, others optional

PHYSICAL

Dimensions of Module (mm)	104W x 104D x 25H
Weight of Module	450g
Dimensions of Card (mm)	25W x 208D x 100H
Weight of Card	200g
Power Requirements	+9V to 20V DC or AC @ 200mA
Indicators	Laser OK Video Present Rx Optical Signal OK
Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.20 Amp