

FTD100Micro Series

Microtype 8-bit Digital 1-ch Video



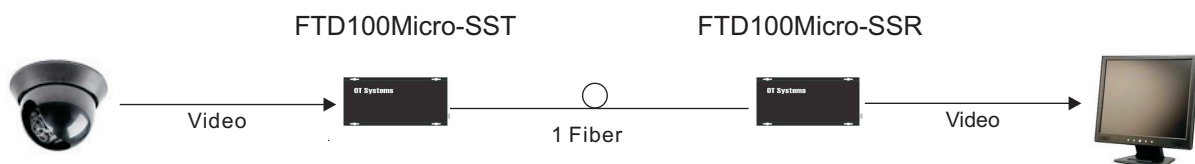
The FTD100Micro series supports optical transmission of 8-bit PCM coded video through one multimode or singlemode optical fiber. It is the smallest video transmitter/receiver pair among all OT Systems products. The transmitter only occupies limited space for easy installation within most camera housings.

Transmitters of the FTD100Micro series are also compatible with receivers of the FTD100, FTD100-XXR3 and FTD100M series, catering to different system configurations.

Features

- Non-compressed 8-bit digital video transmission
- No video degradation over max. operating distance
- Signal to noise ratio better than 60 dB
- Supports NTSC, PAL & SECAM video systems
- Laser diode for optical transmission
- Optimum sensitivity for power budget concerns
- Excellent suppression of EMI & RFI and elimination of ground loop
- Adjustment and maintenance free
- No setup just plug-and-play
- Transient voltage protection on power supply and all signal inputs & outputs
- Robust design for harsh environment applications
- Microtype fits within most camera housings
- Cost effective solution for small scale systems
- Transmitters of the FTD100Micro series are also compatible with receivers of the FTD100, FTD100-XXR3 and FTD100M series

Typical Application



FTD100Micro Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
MULTIMODE (62.5/125 um)				
FTD100Micro-SMT	Microtype 1 Video Transmitter	1 (1310 nm)	23 dB	4 km
FTD100Micro-SMR	Microtype 1 Video Receiver			
SINGLEMODE (9/125 um)				
FTD100Micro-SST	Microtype 1 Video Transmitter	1 (1310 nm)	17 dB	40 km
FTD100Micro-SSR	Microtype 1 Video Receiver			
FTD100Micro-SSTL	Microtype 1 Video Transmitter	1 (1310 nm)	24 dB	60 km
FTD100Micro-SSRL	Microtype 1 Video Receiver			
Compatibility:	FTD100Micro-SMT also with FTD100-SMR, FTD100-SMR3 & FTD100M-SMR FTD100Micro-SST also with FTD100-SSR, FTD100-SSR3 & FTD100M-SSR			
Accessories:	FT-PA/12V. 12VDC power adapter included (US, European, UK or Australian power plug)			
Options:	ST type connector is standard. For FC type, specify 'F' in the model number. Eg. FTD100Micro-FMT			

- NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
 (2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
 (3) Power adaptor is manufactured by third party and is supplied with fitted screw-terminal output cables.
 (4) Please feel free to consult factory for any special requirement and customization

Specifications

Video		Electrical and Mechanical	
No. of Channels:	1	Power:	12VDC @ 3W
Bandwidth:	6.5MHz	Dimensions (HxWxD):	19.6 x 35.8 x 73.6mm
Format:	PAL / NTSC / SECAM	Weight:	0.25kg
Input / Output:	1.0 Vp-p, 75 ohms	LED Indicators:	Power, Video, Optical carrier detected
Differential Gain:	< 1% typical	Environmental	
Differential Phase:	< 1° typical		
Signal-to-Noise Ratio:	> 60dB		
Connectors		Operating Temp.:	-40°C to +75°C
Optical:	ST (standard), FC	Storage Temp.:	-40°C to +85°C
Video:	BNC	Relative Humidity:	0 to 95% non-condensing
Power:	2-pin screw terminal	MTBF:	> 100,000 hours



Lifetime Warranty