

NVD100Micro

Microtype 8-bit Digital 1-ch Video



Features

Video

- ▶ NTSC or PAL video standards supported
- ▶ Non-compressed 8-bit digitally encoded video
- ▶ No video degradation over the maximum operating distance

Optical

- ▶ One fiber design
- ▶ High performance laser-based optics
- ▶ Multimode or Singlemode
- ▶ ST or FC connectors available

Robust Design

- ▶ Plug-and-Play design, no in-field adjustments required
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

Local and remote diagnostics

- ▶ Service-friendly LED status indicators on front of the module

Warranty

- ▶ Comprehensive Lifetime Warranty

Description

The NeTrans NVD100Micro Series offers 8-bit PCM digital video transmission with no video degradation over the entire operating distance (up to 20km) and a small, but mighty design that fits into most CCTV camera housings.

The cost-effective micro NeTrans features high-performance laser-based optics for the clearest, most reliable data transmission over one fiber in both single and multi-mode. This plug-and-play product provides instant product compatibility for most major security manufacturers' equipment and reliability in harsh environments.

These units are compatible with the NVD100 transmitters/receivers and NVD100-XXR3 receivers.

Typical Application



Specifications

Video

Number of Channels	1
Format	NTSC/PAL
Input/Output	1 Volt pk-pk (75 ohms)
Bandwidth	6MHz
Differential Gain	<2%
Differential Phase	<1 Degree Typical
SNR-CCIR weighted	>53dB

LED

Video Signal Indication (Presence/Absence)	Green/Red LED lit
Power	Green / On

Connectors

Video Input / Output	BNC
Optical Input / Output	ST (standard), FC (optional)
Power	2-pin screw terminal

Electrical and Mechanical

Power	12VDC @1.8W
Dimensions(WxHxD)	36.2 x 24.5 x 101mm(Max)
Shipping Weight	0.15kg

Environmental

Operating Temp	-40 °C to +75 °C
Storage Temp	-40 °C to +85 °C
Relative Humidity	0 to 95% non-condensing
MTBF	> 100,000 hours

Ordering Information

Fiber Type	Part Number	Description	Wavelengths	Optical Power Budget	Max. Distance (Km)	No. of slots
Multi-mode (62.5/125µm)	NVD100Micro-SMT	Microtype 1- ch Video Transmitter	1310nm	12dB	4	NA
	NVD100Micro-SMR	Microtype 1- ch Video Receiver				
Single-mode (9/125µm)	NVD100Micro-SST	Microtype 1- ch Video Transmitter	1310nm	18dB	20	NA
	NVD100Micro-SSR	Microtype 1- ch Video Receiver				

Options	<ul style="list-style-type: none"> ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT. Please feel free to consult factory if longer transmission distance is required.
Power Adaptor	<ul style="list-style-type: none"> Power adaptor is included.

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



All Digital Fiber Optic Manufacturing Specialist

OT Systems Ltd., June 2012

Due to continuous improvement, all product specifications are subject to change without further notice.