

NVD100

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
- ▶ Internal SFP optical module
- ▶ ST, FC or SC connectors available

Robust Design

- ▶ Plug-and-Play design, no in-field adjustments required.
- ▶ 2-in-1 modular design for standalone or rack-mount installation
- ▶ Hot-swappable design
- ▶ 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 both front and rear of the module
- ▶ Remote health and status monitoring via Intelligent Rack System Diagnostics and Monitoring (SDM) Module

Warranty

- ▶ Comprehensive Lifetime Warranty

Description

The NVD100, NeTrans' 8-Bit Digital Video transmission product, features high-performance laser-based optics for the clearest, most reliable data transmission over one fiber for both single and multi-mode with no video degradation over the entire operating distance (up to 20km).

This plug-and-play product provides instant product compatibility for most major security manufacturers' equipment and reliability in harsh environments, a perfect compliment to any commercial, government or intelligent transportation application. The product features a universal design that makes NVD100 field-configure-ready for both rack-mount and stand-alone applications. The NeTrans Intelligent Rack design offers remote network diagnostics to maintain and manage system health and hot-swappability.

These units are compatible with the NVD100Micro 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 or SC (optional)
Power (Standalone)	2-pin screw terminal
Power (Rack-Mount)	10-pin smart bus connector

Electrical and Mechanical

Power	SA: 12VDC @500mA
Dimensions(WxHxD)	158.4 x 25.4 x 231.8mm(Max)
Shipping Weight	0.55kg

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)	NVD100-SMT	1 - ch Video Transmitter	1310nm	12dB	4	1
	NVD100-SMR	1 - ch Video Receiver				
Single-mode (9/125µm)	NVD100-SST	1 - ch Video Transmitter	1310nm	18dB	20	1
	NVD100-SSR	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. For SC type, specify "C" in the suffix. E.g. CMT. Please feel free to consult factory if longer transmission distance is required.
Power Adaptor	<ul style="list-style-type: none"> Power adaptor (GS40A12) is to be purchased separately. Please refer to accessories section for the details.
Rack Mount Chassis	<ul style="list-style-type: none"> Intelligent Rack Mount Chassis (NR-C14) is to be purchased separately. Please refer to accessories section for the details.

- 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.



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