# NHD100Micro

Microtype 1-ch HD-SDI Video







### Features

#### Video

- Non-compressed HD-SDI or SD-SDI signal transmission
- Support SMPTE 259M and 292M standards
- Support data rate up to 1.485Gbps
- Support resolution 720p50/60, 1080i50/60, 1080p25/30
- 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
- Designed for use in harsh environments
- Microtype fits within most camera housings
- Wide operating temperature range of -40°C to +75°C

#### Local and remote diagnostics

Service-friendly LED status indicators on front of the module

#### Warranty

Comprehensive Lifetime Warranty

### Description

The advanced NHD100Micro series supports optical transmission of non-compressed HD-SDI or SD-SDI signal format through one multimode or singlemode optical fiber. Capable of transmitting signal up to 20km on singlemode fiber and 1km on multimode fiber, it retains excellent video quality. This compact yet ruggedized unit is ideal for installation in most camera housings.

Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments.

# Typical Application



### Specifications

1
SD-SDI, HD-SDI
1.485Gbps (maximum)
SMPTE 259M, 292M
720p50/60, 1080i50/60, 1080p25/30
75 Ohm
800mVp-p±10%
Over 100m (Belden 1694A)
Around 0.2 UI

CDI Cinnal Indication (Decease)	Green / On
SDI Signal Indication (Presence)	0.00, 0
Power	Green / On
Connectors —	
SDI Input / Output	BNC
Optical Input / Output	ST (standard), FC (optional)
Power	2-pin screw terminal
Electrical and Mechani	cal 12VDC @150mA
Power	12VDC @150mA
Power Dimensions(WxHxD)	12VDC @150mA 36.2 x 24.5 x 101mm(Max)
Power Dimensions(WxHxD) Shipping Weight	12VDC @150mA 36.2 x 24.5 x 101mm(Max)
Power Dimensions(WxHxD) Shipping Weight Environmental	12VDC @150mA 36.2 x 24.5 x 101mm(Max) 0.15kg

> 100,000 hours

## **Ordering Information**

Fiber Type	Part Number	Description	Wavelengths (nm)	Optical Power Budget (dB)	Max. Distance (Km)
Multi-mode	NHD100Micro-SMT	Microtype 1 - ch HD-SDI Transmitter	4040	9	4
(62.5/125μm)	NHD100Micro-SMR		1310		'
Single-mode (9/125µm)	NHD100Micro-SST	Microtype 1 - ch HD-SDI Transmitter	1310	12	20
	NHD100Micro-SSR	Microtype 1-ch HD-SDI Receiver			
Options  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	• Power adaptor is included.				

MTBF

- Notes: Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the
  - 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.













### OT Systems Ltd., July 2012

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