


ND8010HDL HD-SDI Optical Transceiver

1. Overview

Newbridge® ND8010HDL HD-SDI Optical Transceiver is a mini type HD-SDI optical transceiver .It is a perfect and economic transmission device to transmit HD/HD-SDI video, embedded audio and RS485 data via fiber-optic.

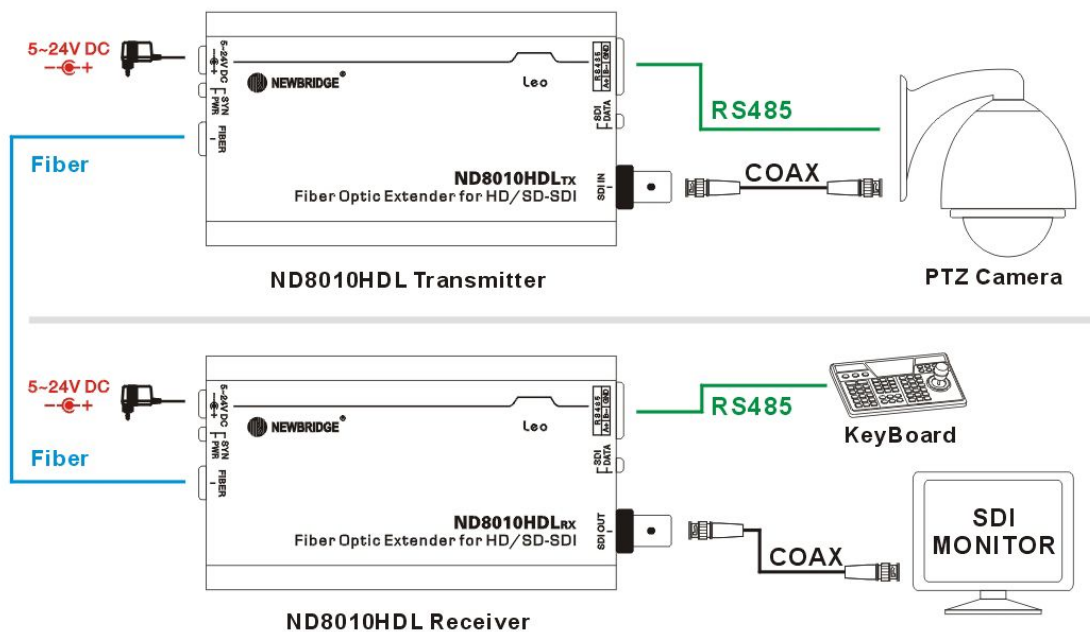
Transmitter is used as sending end ,Receiver is used as receiving end. it support to SMPTE292M, SMPTE259M standard, as well as DVB-ASI (EN50083-9) digital TV signal format.



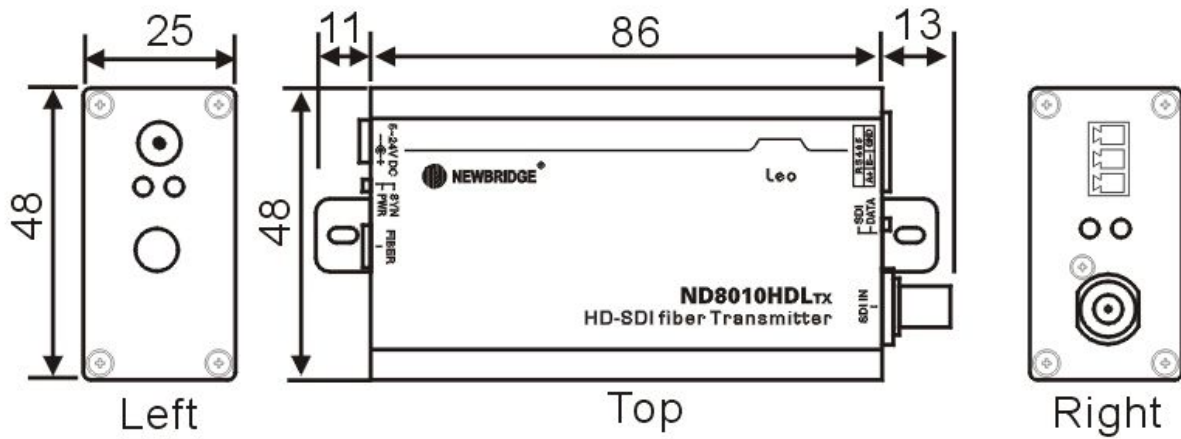
ND8010HDL

- Support 1channel HD-SDI video embedded audio signal via fiber
- SD,HD auto-detection, supported transmission rate from 270M bit/s to 1.485G bit/s
- Transmission distance is from 0km to 80KM via multimode fiber or single mode fiber.
- Support SMPTE 259M (1.485Gbps),SMPTE 259M (270Mbps),and DVB-ASI
- Support plug and play function
- Operation status indication by LED

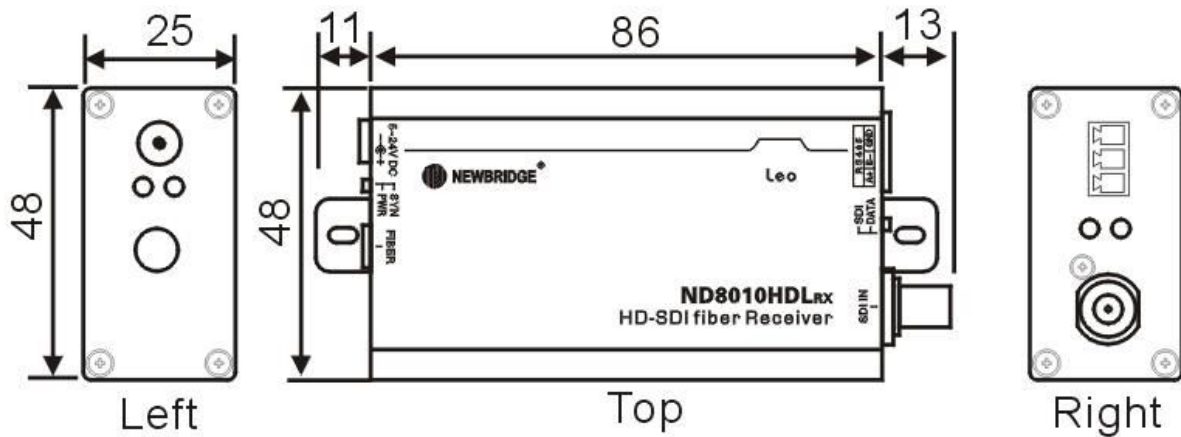
3. Application Diagram



4. Dimensions



ND8010HDL-Tx



ND8010HDL-Rx

5. Specifications

Model	HD-SDI Optical Transmitter & receiver
Quantity/Type	Single Mode, Single Fiber
Max. Distance	0m-20Km (40km/60km optional)
Connector	FC
Wave Length	1310nm/1550nm
Transmitted power	-10dbm ~ -3dbm
Maximum Receiving Sensitivity	<-34dbm
Signal Type	SD-SDI(270Mbps)/ HD-SDI(1.485Gbps)

Support Input Format	SD: 525i @ 59.94Hz, 625i @ 50Hz HD: 720p @ 25Hz / 29.97Hz / 30Hz 720p @ 50Hz / 59.94Hz / 60Hz 1080i @ 50Hz / 59.94Hz / 60Hz 1080p @ 23.98Hz/24Hz/25Hz/29Hz/30Hz
Video Standard	SMPTE 292M and SMPTE 259M
DATA comm. method	RS-485/Half duplex
Power Supply	5~24DC
Power Consumption	3~5 Watts
Operating Temperature	0°C ~ 60°C / 32°F ~ 140°F
Storage Temperature	-30°C ~ 70°C / -22°F ~158°F
Relative Humidity	20~90% RH (Non-condensation)
Dimension	110x 48 x 25 mm / 4.33 x 1.89 x 0.98 inches
Weight	220g (Tx and Rx)

6. Order Information

Part No	Description of product	Unit
ND8010HDL-Tx	HD-SDI Optical-Transmitter	pcs
ND8010HDL-Rx	HD-SDI Optical-Receiver	pcs