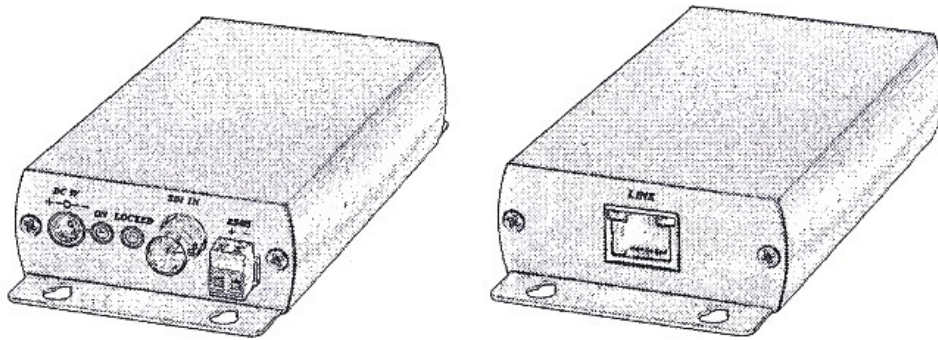# ITEM NO.: SDI05A

HD-SDI CAT5 Extender is a active devices which use CAT5e/CAT6 cable to send HD-SDI signals up to 100m. It is perfect to send HD CCTV over existing CAT5 cable Applications include HD-CCTV, broadcasting, HD camcorder, studio-to-studio, post production, live events, medical imaging displays, and medical imaging…etc.

SDI05A   HD-SDI CAT5 Extender with Data
- To send HD/SD-SDI signal over CAT5e/6 UTP cable.
- Built in RS485 data.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M).
- Up to 100 meters via CAT5e/CAT6 cable at HD-SDI resolution.
- **Optional model: SR01 signal repeater for longer distance application.**
- Built in Equalizer to increase the working distance and signal reliability.

Installation View:

Optional Model: SR01 Signal Repeater (order separately)
- Extend data signal for an additional 120meters.
- Application for SDI05A signals for extra long range transmission.
- Ability to cascade connection with multiple SR01 for long range transmission
- Built in LED status indication.
- External power required.
- Plug and play for easy installation.

Work with SDI05A HD-SDI CAT5 Extender:
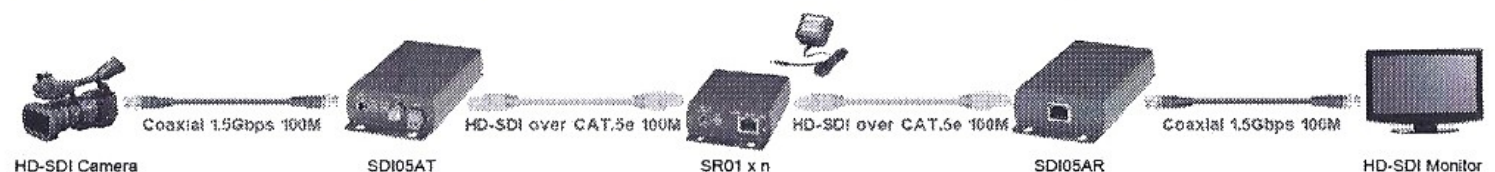
HD-SDI over Coax Cable :

HD-SDI Coax cable recommend to use high quality RG6U, 75Ω Coaxial Cable, low quality coaxial cable or BNC connector may cause signal loss and effect transmission distance and reliability.

Max. distance via high quality 75Ω Coaxial Cable (Belden 1694A RG6U Testing)	
SD resolution (270Mbps: 480i,576i)	200M
HD resolution (1.45Gbps:720p,1080i,1080p@24/25/30Hz)	100M

HD-SDI over CAT5 Cable :

Video Link cable using high quality CAT5E UTP/STP/FTP or CAT6 UTP cable.
HD resolution (1.45Gbps:720p,1080i,1080p@24/25/30Hz): Max. distance 100M
To add model no: SR01 signal repeater for longer distance application.

SDI05AT LED Indication:

Green	On	Power on
Blue	On	SDI signal input

RJ45 LED Indication:

Green	On	Connection
Yellow	Flash	Data Transmission

SDI05AR LED Indication:

Green	On	Power on
Blue	On	SDI signal output

RJ45 LED Indication:

Green	On	Connection
Yellow	Flash	Data Transmission

Panel View:

SDI05AT
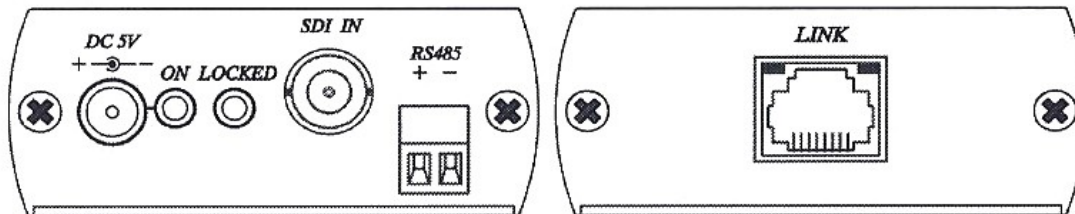
SDI05AR

RJ45 Define:

2
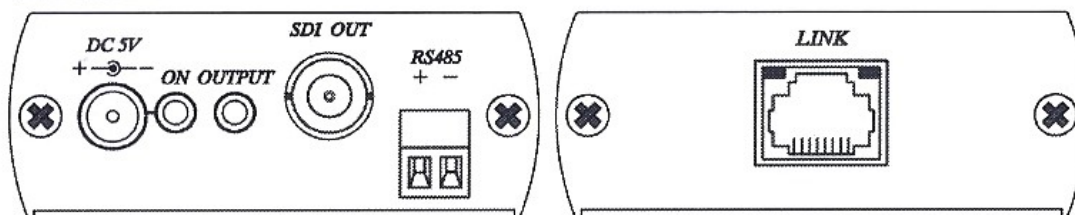
Link Cable (TIA/EIA-568-B)
1. Orange-white   Data 1 +
2. Orange   Data 1 -
3. Green-white   Data 2 +
4. Blue   N/C
5. Blue-white   N/C
6. Green   Data 2 -
7. Brown-white   N/C
8. Brown   N/C

RS485 Setting :

SDI05A RS485 is half duplex mode, the Data Baud Rate Default is 9600.   If need to change the different data Baud rate, please go to webpage to change the setting.

The setting step as below:
1. Under PC internet link, change IP address to 192.168.168.1, change subnet mask to 255.255.255.0
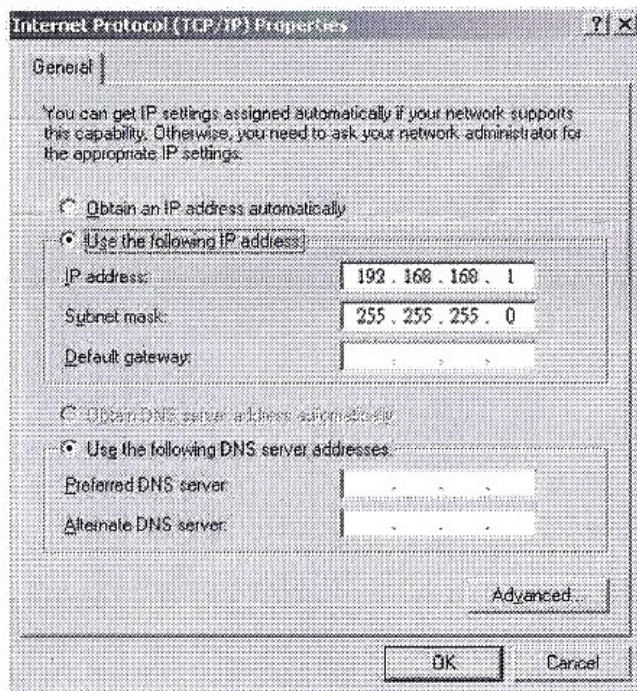
2. After setting, put the IP as below
    192.168.168.55 → SDI05AT Management webpage
    192.168.168.56 → SDI05AR Management webpage

3. After login webpage select System→Uart Settings: to find the data rate you want to change, then press OK.
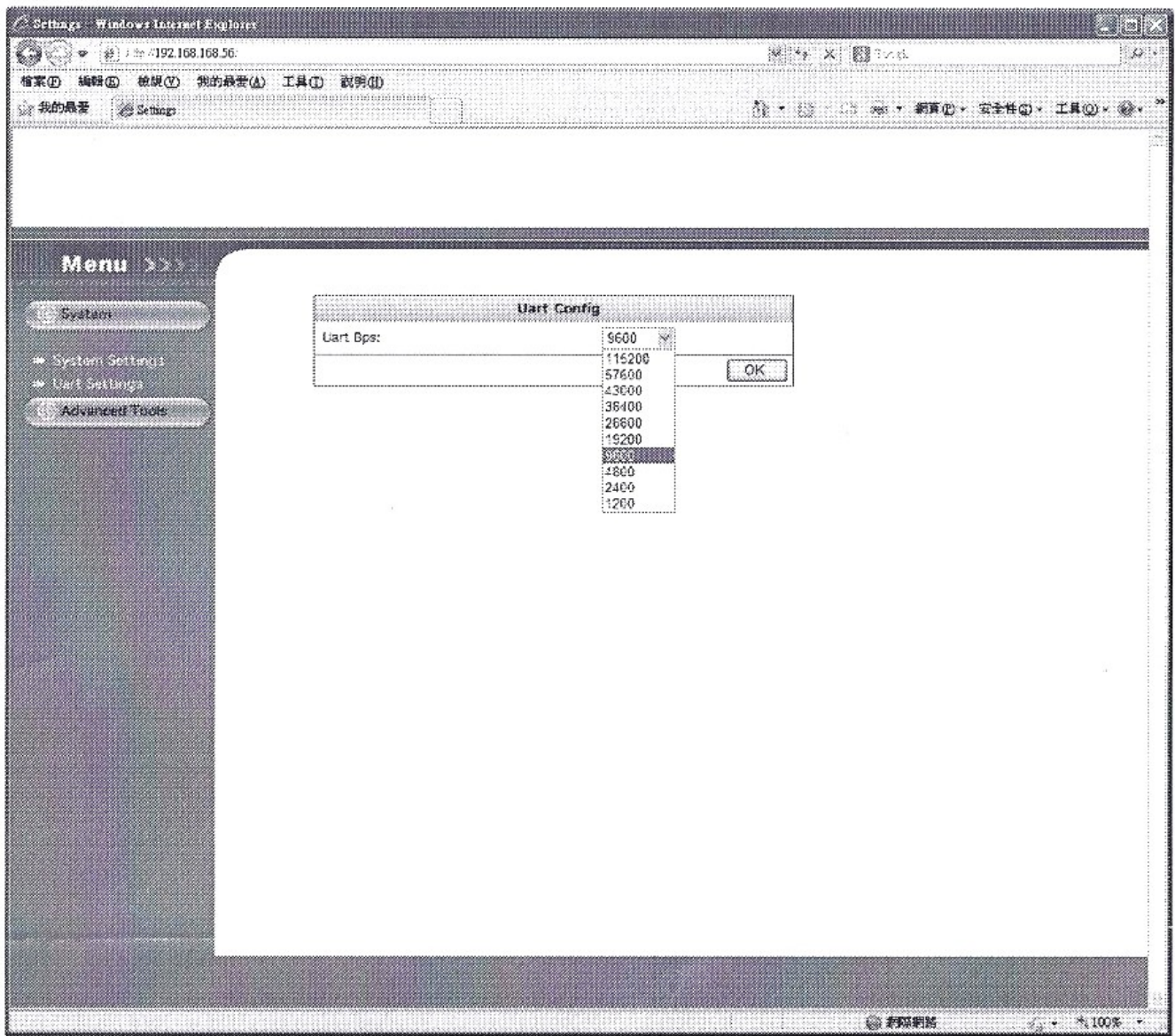
Caution:

The cabling must away from any equipment with electromagnetic wave, i.e.: microwave, radio equipment, high voltage.

Specification:

ITEM NO	SDI05AT	SDI05AR
Video Input / Output	BNC x 1 (75 Ω) MALE	
Support Resolution	SMPTE 259M - SD-SDI(270 Mbps) SMPTE 292M - HD-SDI(1.485 Gbps)	
Transmission Interface	RJ45 x 1	
RS485 Interface	Terminal x 1	
Transmission Distance	100 meters	
Power Supply	DC 5V 2 Amp	
Power Consumption	1200mA	
Temperature	Operation: 0 to 55℃, Storage: -20 TO 85℃, Humidity: up to 95%	
Dimensions mm	67 x 140 x 27	
Weight g	230	

RoHS CE FC

Rev.A