

HD-SDI Extra Long Range Repeater

ITEM NO.: SR02



SR02 is a repeater for HD-SDI links operating with 75Ω coax cable. It can be daisy chained together up to 5 pieces of SR02 with working distance 1KM. When using multiple SR02 repeaters installation, the repeater power could be send over coax cable from the remote repeater (nearest the DVR). It also support RS485 data control as well. The application could be using for HD CCTV HD-SDI camera extra long range video monitoring.

Features:

- Extend HD SDI signal over 75Ω coax cable up to 200M.
- Support SDI (SMTP 259M), HD-SDI (SMTP 292M), 3G-SDI (SMTP 424M).
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- Built in RS485 control with half duplex speed up to 57,600 bps, but which effects only when using 2 piece or more than 2 pieces SR02 long range installation.
- Ability to do multiple repeaters application up to 5 pieces with distance 1KM (Max.)
- Ability to send power to next SR02 repeater unit over coax cable from the remote repeater (nearest the DVR) when using 2 piece or more than 2 pieces SR02 long range installation.
- Reclocker to resynchronize the signal—bringing it back to its original condition.

Installation:

SR02 single unit application:



SR02 multi units application: (up to 5 pieces Max.)



Recommend Cable:

Link cable recommend to use high quality 75Ω Coaxial Cable, low quality coaxial cable may case signal loss and effect transmission distance and reliability.

Working Distance:

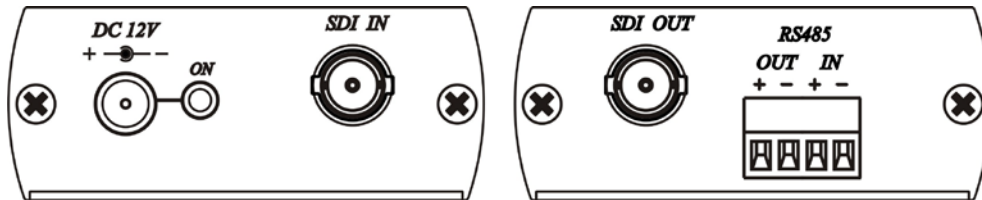
| Max. distance via high quality 75Ω Coaxial Cable (Belden 1694A RG6U Testing) | | |
|---|------|-----------------|
| SD resolution (270Mbps) | 400M | |
| HD resolution (1.45Gbps) | 200M | 1KM (5 pieces) |
| Full HD resolution (2.97Gbps) | 100M | 500M (5 pieces) |

| Max. distance via high quality 75Ω Coaxial Cable (Belden 1505A RG59 Testing) | | |
|---|------|-----------------|
| SD resolution (270Mbps) | 300M | |
| HD resolution (1.45Gbps) | 150M | 750M (5 pieces) |
| Full HD resolution (2.97Gbps) | 80M | 400M (5 pieces) |

LED Indication:

GREEN **Power**

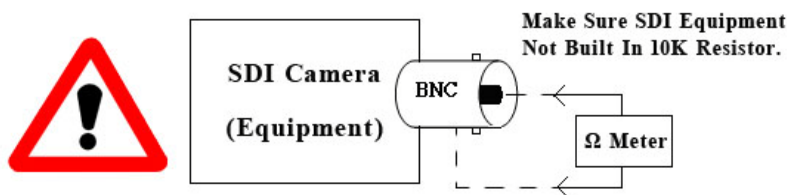
Panel View:



Remark:

Note: SR02 repeater built in "POC" (POWER OVER COAX) function, which will send power automatically to next SR02 repeater via BNC connector. But for a few SDI cameras (equipments) whose BNC connector built in 10K resistor. It will make SR02 send power automatically to your SDI equipments and damage your SDI equipment. Before installation, we strongly recommend you to measure your SDI equipment BNC connector without built in 10K resistor.

As below diagram:



Specification:

| ITEM NO. | SR02 |
|-------------------------|--|
| SDI Standard / Protocol | SMTPE 259M - SDI(143 to 360 Mbps) . SMTPE 344M - (540 Mbps) . SMTPE 292M - HD-SDI(1.485 Gbps) . SMTPE 372M - dual link HD-SDI(2.97 Gbps) . SMTPE 424M - dual speed HD-SDI(2.97 Gbps) . |
| SDI Input Connector | BNC 75Ω |
| SDI Output Connector | BNC 75Ω |
| Power Consumption | 70mA (Max) |
| Power Supply | Switching DC12V 500mA |
| Temperature | Operation: 0 to 55°C, Storage: -20 to 85°C, Humidity: up to 95% |
| Dimensions | 67 x 91 x 27 (mm) |
| Weight | 200 g |