Performance Specification

Performance by coax type	Max Coax length for error free operation @ 1.485 Gbps (2M , 30fps)	Max Coax length for error free operation @ 2.97 Gbps (2M, 60fps / 3M,30fps)	Cable/Power Budget	
			Max # Repeaters (total length)	DC power after 2 repeaters
RG6 Sample 1 (16dB/100m)	220 meters / 720 feet	120 meters / 390 feet	5 (1Km)	6W
RG6 Sample 2 (16dB/100m)	220 meters / 720 feet	120 meters / 390 feet	3 (600m)	1.8W
5C-HFBT Sample (16dB/100m)	220 meters / 720 feet	120 meters / 390 feet	5 (1Km)	6W
RG59 Sample (23dB/100m)	153 meters / 502 feet	83 meters / 272 feet	5 (700m)	6.5W
3C-2V Sample 1 (41dB/100m)	85 meters / 280 feet	47 meters / 154 feet	5 (390m)	6.5W
RG11 Sample (10dB/100m)	350 meters / 1150 feet	192 meters / 630 feet	4 (1.3Km)	4W

Caution

Please follow below instructions for safe use.

Information
Read this user guide carefully before any installation for safe operation of product.

WARNING : Indicating the possibility of serious injury or death.

WARNING

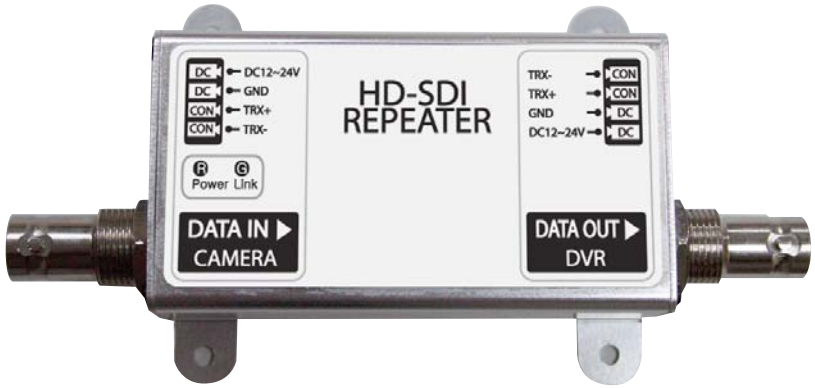
1.Do not disassemble the unit yourself. When there is problem with the unit please contact after-sale service center or the shop where you bought it.
2.Use only regulated power source.
3. Do not disassemble or re-model the camera, it could cause fire, electric shock or other hazards.

If the product is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.

Made in Korea

Professional

HD-SDI REPEATER



Strong Point

1. HD-SDI signal can be repeated to ∞ .
2. Adaptive Equalizer to return the signal to its original amplitude and modulation.
3. Reclocker to resynchronize the signal - bringing it back to its original condition.
4. Cable driver to retransmit the signal with its original characteristics restored.
5. Power can be transmitted from the recorder side to the camera over the coax cable (500mA max.).
6. Up to 5 repeaters may be powered from the coax cable; if one or two repeaters ared used, the power may also be adequate to pwer the camera on the remote end.
7. A control signal (RS485) can be transmitted from the recorder (DVR) side to the camera over the coax cable.

Installation

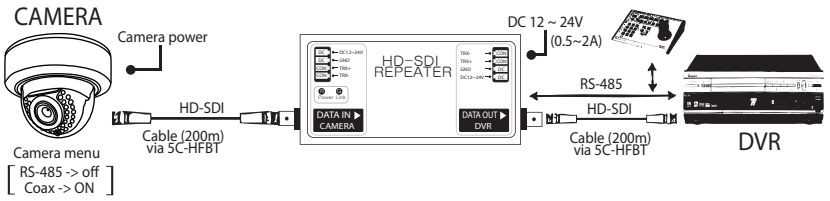
You can install the repeaters as below.

01 Each repeater can extend the HD-SDI signal to about 200m.

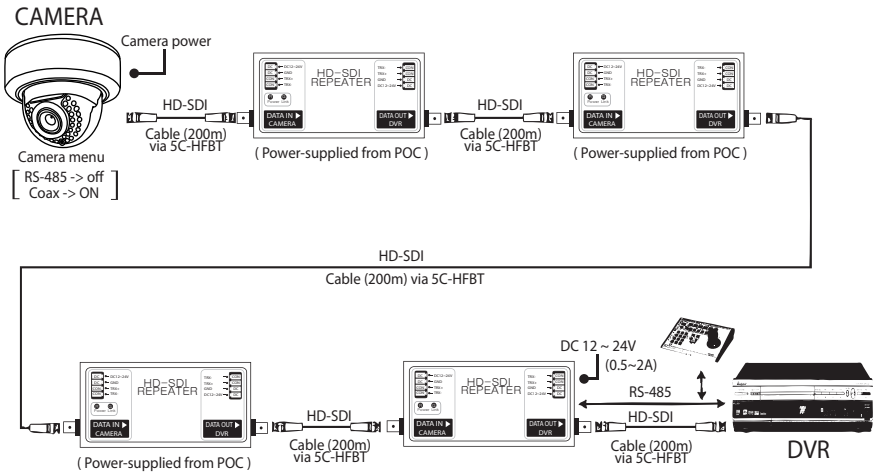
02 You can supply the power 12V DC - 24V DC (0.5-2A) for only last one, DVR side, to extend HD-SDI signal to about 1000m.

03 You can supply the power 12V DC - 24V DC (0.5-2A) for each repeater to extend HD-SDI signal to ∞ .

01 When one repeater used (Coaxial communication available)



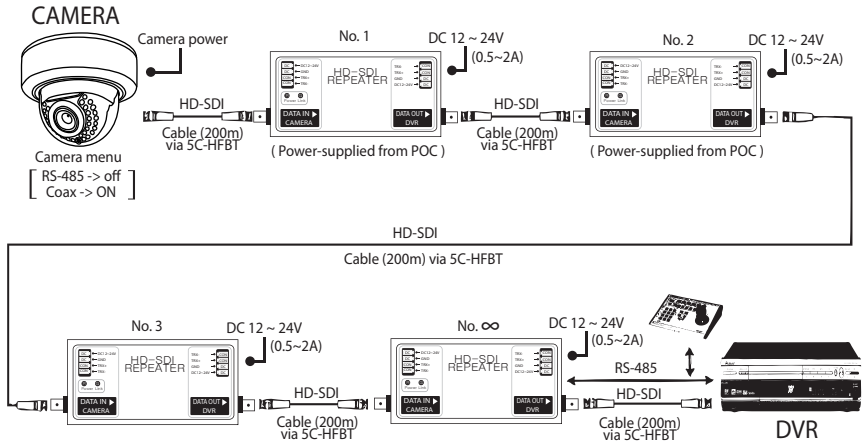
02 When more than one repeater used (Coaxial communication available)
(* Only last one repeater power-supplied)



Notes

● When 5C-HFBT (16dB/100m) used, 5 pcs of repeaters can be connected.
(24V DC , 2A power supply recommended)

03 When more than one repeater used (Coaxial communication available)
(* Each repeater power-supplied to extend HD-SDI signal to ∞)



Technical Specification

HD-SDI Interface	
Connector	BNC True 75Ω
Cabel Impedance	75Ω±3Ω
Data Throughput	270Mbps ~ 1.485Gbps
Aux Interface	
Connector (Head End)	Plug connector
Signaling	RS485 in, RS485 out , GND, DC24V
Power Supply Consumption	
Aux Power In	DC 24V @ 30mA , plus and concatenated repeaters
DC Feed via Coax	Min 9 ~ 24V DC , rated current 0.5 ~ 2A
Power Supply Output	
Aux Power out via plug connector	V_{in} @ Head End - 1V -Coax DC drop (Varies with cable type/length)
DC Feed via Coax	V_{in} @ Head End - 1V -Coax DC drop (Varies with cable type/length)
DC supply current	Maximum 400mA / 30mA consumed per repeater
Environmental	
Operating Temperature	0℃ ~ 50 ℃
Relative humidity	Up to 85% non-condensing
Storage Temperature	-20℃ ~ 70 ℃