

## HD-SDI Fibre Link



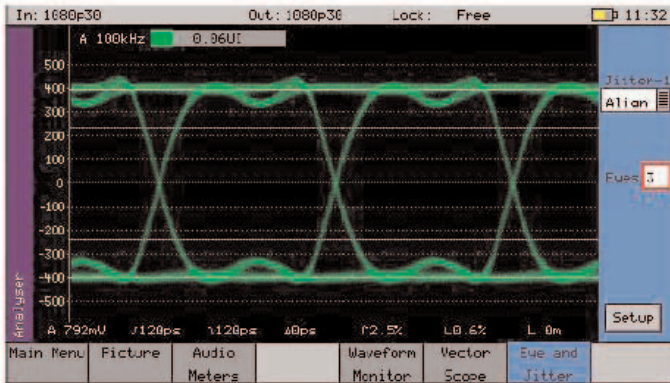
**IC-084/085** fibre link includes multi HD-SDI fibre links in one 19" 1RU chassis, consisting of an optical transmitter and an optical receiver for 1080i HD-SDI signal or 1080P HD-SDI signal. The HD-SDI channel number over **IC-084/085** fibre link can be up to 5. The transmitter can be installed next to HD camera while the optical receiver can be installed in the central office. HD-SDI signal can be 1920x1080 30P or 60P. **IC-084/085** supports the reverse RS-485 PTZ control signal transmission to each connected HD camera over the same SM fibre.

- ✓ Auto Negotiate 19.4/143/177/270/360/540/1483.5/1485Mbps and 2970Mbps
- ✓ Complied with SMPTE424M, SMPTE292M, SMPTE310M, SMPTE259M and SMPTE344M
- ✓ Complied with DVB-ASI (EN50083-9)
- ✓ Cable Input Equalizer on the transmitter and clock recovery on the receiver
- ✓ Built-in Diplexer module for single fibre reverse data transmission
- ✓ Pathological Pattern Available on request

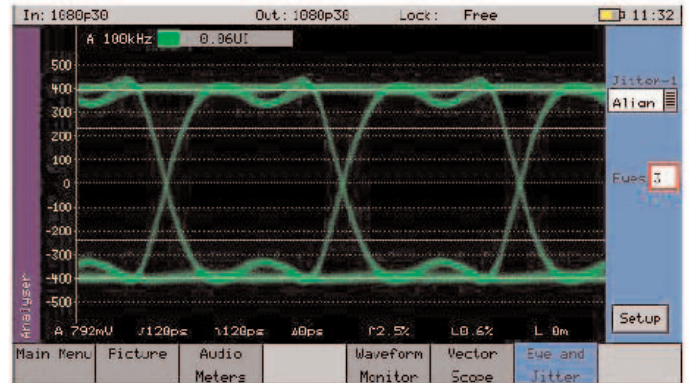
SPECIFICATIONS	IC-084 / IC-085
<b>HD-SDI Input</b> Input Channel Input Level Cable Input Equalization Input Return Loss Input Resistance: 75 Ω	4 or 5 or 6 or 7 or 8 >380 mV <sub>P-P</sub> >250 m (270 Mbps) (BELDEN8281) >100 m(1485 Mbps) (BELDEN8281) >30 m (3 Gbps) (BELDEN8281) >16dB (270 Mbps), >12dB (1.485 Gbps), >10 dB (3 Gbps) Input Connector: BNC Female
<b>HD-SDI Output</b> Output Channel Number Output Level Rise/Down Time Jitter (at Pathological Pattern) Output Resistance: 75Ω	4 or 5 or 6 or 7 or 8 800 mV <sub>P-P</sub> ±10% <0.8 ns (270 Mbps), <150 ps (1485 Mbps), <180 ps (3 Gbps) <0.1 UI (270 Mbps), <0.15 UI (1485 Mbps), <0.18 UI (3 Gbps) Output Connector: BNC Female
<b>Reverse Digital Data</b> RS485	0 to 400 Kbps bit error rate less than 10 <sup>-9</sup>
<b>Fibre Optic Parameter</b> Optical Output Power Optical Receiving Sensitivity Optical Return Loss Fibre Optic Connector Power Supply	1310 nm, 1550 nm or CWDM wavelength -15 dBm~+2 dBm -24 dBm 50 dB FC/UPC or SC/UPC or FC/APC or SC/APC 100 V~240 V AC, 50/60 Hz, <16 W

## HD-SDI Fibre Link

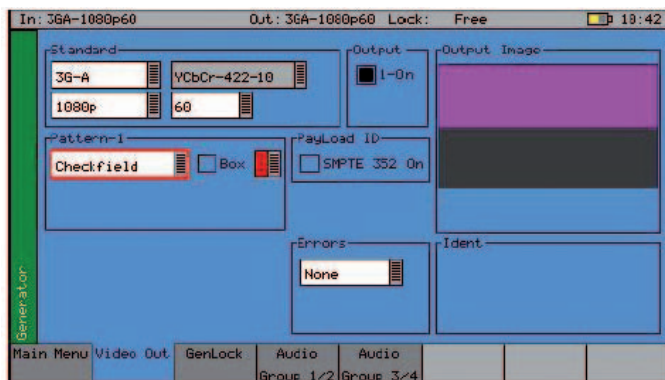
- Test Data of IC-084 / IC-085 over 20 Km SM fibre



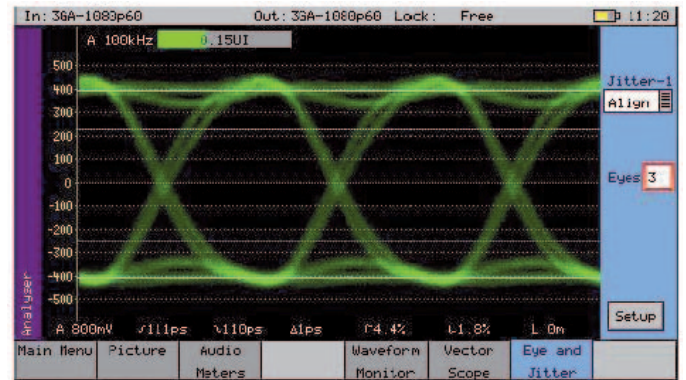
Left: 1080 P 30 P HD-SDI signal over 20 Km SM fibre Eye Diagram



Left: 1080 P 60 P HD-SDI signal over 20 Km SM fibre Eye Diagram



Left: 1080 P 60 P HD-SDI signal at Pathological Pattern



Left: 1080 P 60 P HD-SDI signal at Pathological Pattern over 20 Km fibre Eye Diagram

Ordering Information: W-X-Y-Z-S Single Fibre HD-SDI Optical Transmitter

WF-X-Y-Z-S Multi Fibre HD-SDI Optical Transmitter

W-Y-Z-S Single Fibre HD-SDI Optical Receiver

WF-Y-Z-S Multi Fibre HD-SDI Optical Receiver

W (HD-SDI Channel): 4 or 5 or 6 or 7 or 8

X (Fibre Distance): 2-2 Km, 10-10 Km, 20-20 Km, 40-40 Km,...

Y (Reverse Data): None-No Data, D-RS485

Z (Fibre Connector): FU-FC/UPC, SU-SC/UPC, FA-FC/APC, SA-SC/APC

S (Special Requirement): None-1080i 1.485 Gbps; P-1080 P 2.97 Gbps,

PB-1080 P HD-SDI supporting pathological pattern