

Fiber Optic Field Transport
HD, Video, Audio, Ethernet & Data
Battery Operated & Bi-Directional

COMPATIBLE WITH:

HD-3000, HD-1500, DVM-2500, HEMC-400

FEATURES & BENEFITS

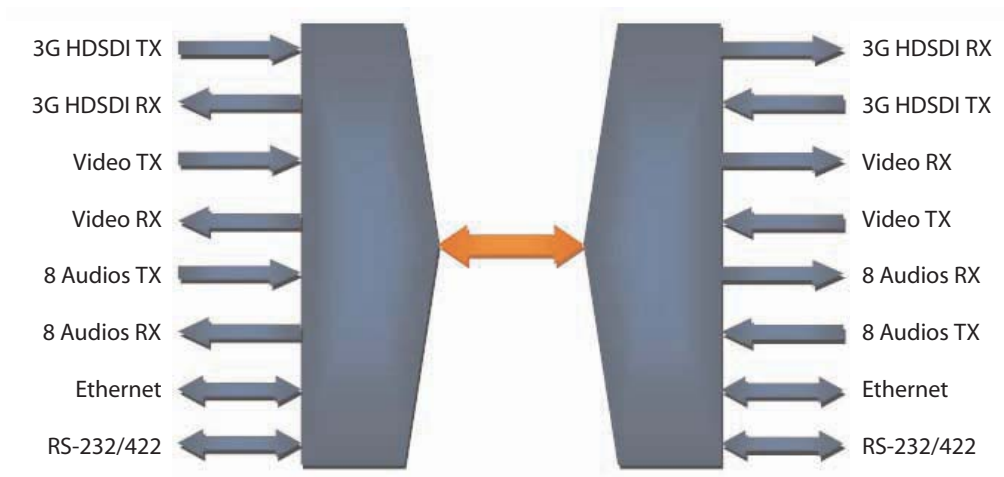
- 2 HDSDI, 1.5G or 3G or one Bi-directional
- 1 Bi-directional, 12 bit Video
- 8 Bi-directional Audio, 24 Bit, Flat from 20 to 20K Hz
- 2 RS232C, RS422, RS485 or TTL at 9600 Baud
- 1 Tally dry contact closure
- 1 Optical Ethernet link, 10/100Base-T or GigE
- Extremely rugged case
- Run on battery or AC supply
- Anton Bauer or IDX mounting plate
- Singlemode or multimode configurations
- Optical connectors include ST, SC, LC as well as TFOCA, PH, Tyco Expanded Beam & Neutrik.
- Can be linked with another LiGHTBoX or the HD-3000, HD-1500, DVM-2500 & HEMC-400



SUMMARY

The MultiDyne LiGHTBox is designed for field and harsh environment applications. Typical applications are ENG, sports, military and any field application where battery powered equipment is required. The LiGHTBox can be linked via tactical fiber cable to the DVM-2500, HD-1500, HD-3000 and HEMC-4000. The LiGHTBox is fully customizable offering virtually any signal compilation.

FUNCTIONAL DIAGRAM



SPECIFICATIONS

VIDEO PERFORMANCE:

Signal to noise	> 75 dB
Differential gain	< +/- 0.2 %
Differential phase	< +/- 0.2 Deg
Chrominance to luminance gain	< +/- 0.5%
Chrominance to luminance delay	< +/- 5 nsec.
Frequency response to 6 MHz	< +/- 0.05 dB
3 dB Bandwidth	8 MHz
Luminance non-linearity	< 0.2 %
Ringling	< +/- 0.5 %
Tilt	< +/- 0.2 %
Video output & input impedance	75 Ohms
Delay, throughput	24 micro sec.
Data channels	3 RS-232C@ 9.6K

AUDIO PERFORMANCE:

Signal to noise	> 90 dB
Frequency response 20 Hz to 20 KHz	< +/- 0.1 dB
Distortion	< 0.05 %
Audio output level, adjustable	Unity, +/- 6 dBm
Max input & output level, 600 Ohm	+18 dBm
Output impedance, balanced	50 Ohms
Input impedance balanced selectable	600 Ohms or High
Power dissipation	< 15 Watts per unit
AC operation	110 or 220VAC
Battery Power	14.3V
Operating temperature	0 to +50 °C
Storage temperature	-40 to +95 °C

HD SDI – FTX:

Input	1 BNC
Impedance	75 Ohms
Return Loss	>18dB up to 270MHz
Loop Through Output	BNC
Wavelength	1310nm SM or MM
Power	-12dBm

HD SDI – FRX:

Wavelength	1310nm
Sensitivity	-10dBm
Output	2 BNC
Return Loss	>18dB up to 270MHz

ORDERING INFORMATION

LB-2000	The LiGHTBoX Rugged Case with Battery Mounting Plate and Power Supply. The LiGHTBoX will accommodate any or all of the following options.
...-VAD	1 video, 8 audio and 2 data channel with tally, Bi-directional, Fiber Optic, Transceiver; exceeds RS-250C Short-haul specs. with WDM for 1310nm Multimode Laser 0 dBm, 850nm Singlemode PIN, Sensitivity -24 dBm.(Requires DVM-2500 or LiGHTBoX on Other End)
...-HD15T	1.5 Gbps Multirate Serial Digital Video Fiber Optic Transmitter, 5 - 1485 Mb/s, DVB/ASI, SMPTE 292M/259M/310m, 1310nm Single-mode Laser, -12 dBm. (Requires HD-1500-FRX or LiGHTBoX on Other End)
...-HD15R	1.5 Gbps Multi-rate Serial Digital Video Fiber Optic Receiver, 5 - 1485 Mb/s, DVB/ASI, SMPTE 292M/259M/310M, Reclocker, 1310nm Singlemode, -20 dBm sensitivity. (Requires HD-1500-FTX or LiGHTBoX on Other End)
...-HD30T	3 Gbps Multirate Serial Digital Video Fiber Optic Transmitter, 5 - 2970 Mb/s, DVB/ASI, SMPTE 292M/259M/310m, 1310nm Single-mode Laser, -12 dBm. (Requires HD-3000-FRX or LiGHTBoX on Other End)
...-HD30R	3 Gbps Multi-rate Serial Digital Video Fiber Optic Receiver, 5 - 2970 Mb/s, DVB/ASI, SMPTE 292M/259M/310M, Reclocker, 1310nm Singlemode, -20 dBm sensitivity. Supply included. (Requires HD-3000-FTX or LiGHTBoX on Other End)
...-ET	10/100Mbps or GigEthernet, Fiber Optic Ethernet Media Transceiver, Singlemode ONE Fiber, 1310Tx/1550Rx. (Requires HEMC421SC20-53-B11 or LiGHTBoX on Other End)