

Best in class STAGEBOX SOLUTION Supercharge your optical FIBER



The STAGE RACER is a complete optical fiber transmission solution for Outside broadcast events, OB trucks, Commentary position, Stage-Studio connexion and Building Infrastructure. The STAGE RACER is designed to transport all needed signals in the same device.

With the ERECA unique feature for on the fly direction configurable HDSDI channels and the numerous commodities signal transmitted along the videos, the stage racer is the product of choice for an affordable fast and easy event deployment.

The equipment assumes transmission of a comprehensive set of signals as follows:

- 12 video 3G / HD / SDI signals (direction configurable through built in web server),
- 1 Genlock bidirectional (Composite video / Black burst / Tri-level),
- 16 analog audio for intercom or broadcasting,
- 2 Ethernet 10/100/1000Mbs (1 Gigabit trunk with 2 VLANS),
- 2 Data RS 232/422/485,
- 8 Contact closure,
- 4 AES 3 bidirectional (Riedel panel compatible),
- 1 bidirectional MADI (AES10) Signal (Shared with 2 of the 4 AES connectors).

Each equipment has a LED display panel for signal presence and alarm display.

An **internal web server** enables remote management and setup (signal presence report / optical power measurement / Data settings / Configure direction of each HD video signal).

All the signals are transmitted on 2 singlemode fibers. An optical cable failover option is built inside the modules by adding a second connector. In case of fiber cable break the equipment automatically select the other cable.

Each equipment has a built in redundant power supply. As an option, the camera side unit can be remote powered by the OB unit trough Hybrid cable and deliver 12Volts 30watts for an ENG camera, offering a totally remote powered solution for news shooting.

Options:

Numerous options can be fitted in the stage racer:

- 8 switchable mic/line gain blocks with phantom power injection and gain management,
- 12 extra low data rate RS 422 low data rate serial channels,
- 6 extra hi speed RS 422 (500 Kbs) serial channels,
- Remote powering of the external unit + 12V 30W output (950m SMPTE cable allowed),
- 8-20 volts DC power input.
- External stand alone Madi optical-electrical converter (Part of X-Racer series).

Connectors on 1U rack STAGE RACER



Standard connectors are used for all the signals. HD and PAL video ports are on BNC connectors. The other connectors are RJ45 / D SUB. On the rugged version 4 audio are dispatched on Neutrik XLR. Optical and remote power access is done through a Neutrik OpticalCon DUO or LEMO 3K socket.

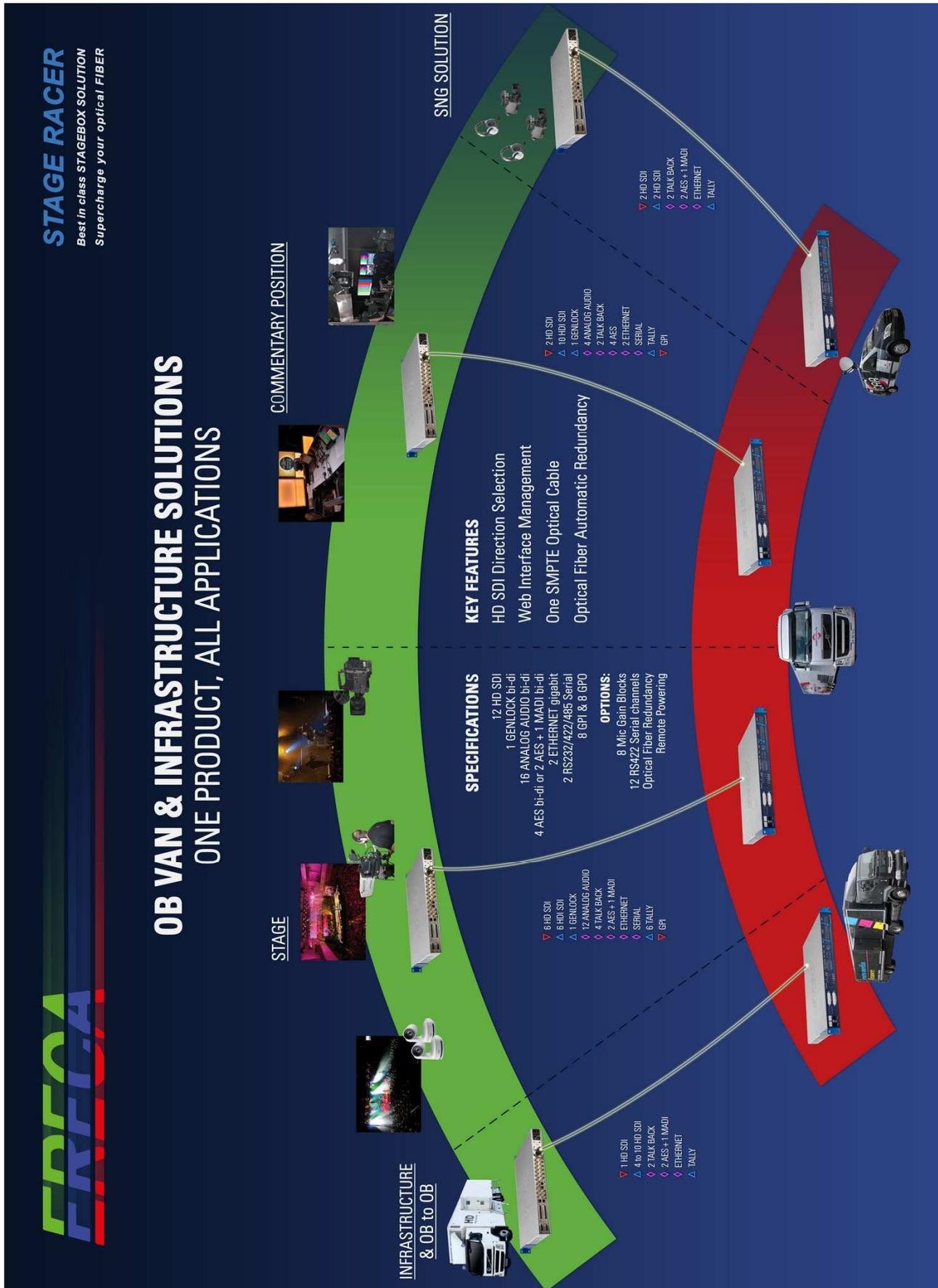
Connectors on rugged STAGE RACER box (option)



STAGE RACER : TECHNICAL SPECIFICATIONS

| Optical | |
|--------------------------|---|
| Dynamic range: | 10 dB for the 12 channels (11.5 dB/8Ch, 13 dB/4Ch) pathological signal. |
| Connector: | NEUTRIK OpticalCon DUO or LEMO 3K (EDW / FXW) |
| Video SD/HD | |
| Number, connector: | 4 to 12 channels on BNC (Each channel is direction configurable). |
| Direction setting | Internal Web Server. |
| Impedance: | 75 Ω |
| Standard: | SDI, ASI, HD, 3G Reclocker bypass available for SDTI or MADI compatibility |
| Amplitude: | Input: cable equalization (140 m Belden 1694A for 3G), Output: 800 mV pp |
| Return loss: | Better than - 15 dB for 0 to 1500 MHz and better than - 10 dB for 1500 to 3000 MHz |
| Analog Video / GL | |
| Number, connector: | 1 Bidirectional, 2 BNC |
| Standard: | PAL, SECAM, NTSC, Tri-level (Bi / Tri level auto sense) |
| Impedance: | 75 Ω |
| Bandwidth: | > 5.8 MHz at +/- 0.2 dB |
| Differential Gain/ Phase | < 1%, < 1° |
| Group delay: | < 10 ns |
| SNR: | > 67 dB (CCIR567) |
| Analog Audio | |
| Number, connector: | 16 bidirectional channels Rugged box: 4 on XLR / 4 on one SUB D 25 socket; for 1U rack all on SUB D 37 |
| Impedance: | Input: 10 K Ω differential (non floating), Output: 20 Ω differential (non floating) |
| Amplitude: | +4 dBm nominal (saturation at + 18 dBm) |
| Bandwidth: | 50 Hz to 15 KHz at +/- 0.5dB, (20 Hz to 20 KHz at -3 dB) |
| Distortion: | 0.05% at 1Khz +18 dBm |
| Signal to noise ratio: | 90dB, "A" weighted |

STAGE RACER application fields



ERECA reserves the right to change specifications without notice.