CAM RACER Lite/Std/4K/8K



Camera Dockable optical fiber transmission set. From ENG up to 4K/8K cameras with 4 x 12G.



The CAM RACER is a complete optical fiber transmission solution for camera connection for Oustside Broadcast, Studio and Cinema applications. It is composed of a camera dockable transmitter, agnostic to any type or brand of Camera and a 1RU basestation receiver.



Product Highlights

With up to four 12G-SDI channels, the CAM RACER can fit any camera from simple ENG to 8K Live sport devices making it suitable for any environment and ideal for rentals.

CAM RACER delivers up to 200 Watts to the camera. An automatic battery backup will help the remote powering system if more power is needed suddenly.

An internal audio mixer allows user to mix between talkback, programs inputs and local audio channels for Eng and Reporter headsets.

Monitoring SDI output at camera side performs tally insertion (Image border rectangle) and viewfinder / return feed internal switching. Monitoring in supports HD and 3G signals (transmitted after HD downscaling).

Camera control channel supports: Ethernet, RS422 Serial, Sony Lanc, Canon RC-V100 protocol.

Camera synchronization supports: Two composite video signals and one timecode.

Signals control and Setup is done through internal web server. Most signals are also reported on LED display of each unit. An Oled display gives direct access to optical receiving levels and server IP address.

CAM RACER Lite/Std/4K/8K



Detailed Description

The transmitter is fitted in a dockable unit which can be installed on any camera. A user panel feature LEDs for signal presence/activity, rotary button for volume adjustment and various level settings (sidetone, program1 / program2 listen level) along with push to talk commands. Cooling of the unit is done by a small and silent dimmable fan located at the back of the unit.

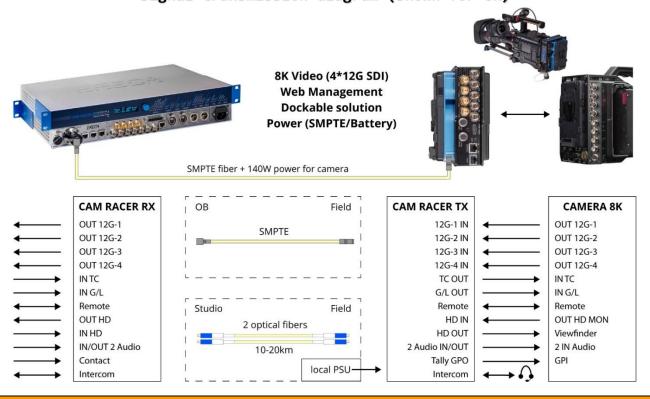
The basestation receiver is integrated in a standard 19" 1RU format. All signals are dispatched on standard connectors and standard pinout at the rear of the chassis. (Web server is on a separate Ethernet port). The front of the chassis is composed of a LED display panel indicating the status of each signals and technical alarms. An Oled display gives direct access to optical receiving levels and server IP address. The basestation integrates a single mains power supply and two fans for thermal management.

There are 4 standard configurations of CAM Racer. (Cam racer Standard switches to Cam racer 4K with addition of 2 optionnal extra 12G channels).

Table below summarizes each configuration features/capacity:

| Specifications (docking unit) | CAM Racer Lite | CAM Racer Std / 4K | CAM Racer 8K |
|---|----------------|----------------------------------|--------------|
| SDI Channel | 1x3G In | 2x3G In + 2x12G In (optional) | 4x12G In |
| HD (Monitoring, BNC) | 1 HD In | 1 HD/3G In | |
| Viewfinder/Ret Switch. Tally insertion | No | Yes | |
| HD (Viewfinder, BNC) | 1 HD Out | | |
| Ethernet 10-100 Mb/s | 1 | | |
| Basestation Admin port for web management | 1 | | |
| Timecode | 1 Out | | |
| Lanc | 1 | | |
| Audio Mic + 48V or Line | 2 In/Out | | |
| Genlock (Composite Video / Black burst / Tri-Level) | 1 Out | 2 Out | |
| RS 232/422/485 serial channel | 1 | 2 | |
| Intercom-Talkback channel | 1 In/Out | 2 In/Out | |
| Tally GPIO | 1 Out | 2 Out | |
| Remote power capacity for the camera | 50W | 140W or 200W | |

Signal transmission diagram (Shown for 8K)







Camera Power Section

CAM Racer is basically remote powered from its base station. The camera unit is able to source up to 200W of power for the camera at 360m of 9.2mm SMPTE cable. Power budget decreasing slowly for longer runs.

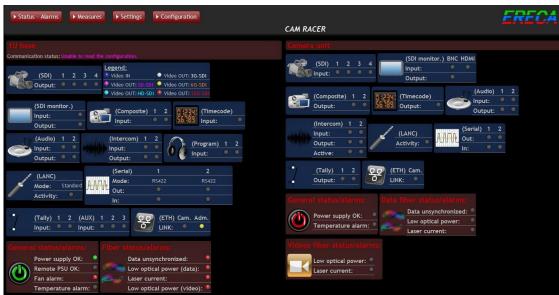
A battery support (V-lock / AB) enables the CAM racer and its camera to be locally powered by a battery.

A key feature of the Cam Racer is the automatic switching between remote power and battery power without power loss for the CAM Racer and its camera. On very long lengths of SMPTE a temporary sudden extra power consumption (accessory startup) may draw too much power regarding the loss of the installed SMPTE cable. In this case the CAM Racer will detect power drop and will switch on the battery then come back on the remote power supply when the extra power consumption stops.

For B-Mount 28V cameras an external step-up converter from Blueshape (MV2BM) can be used to keep the CAM Racer camera agnostic regarding their power supply voltage.

Web Management and Audio Mixing

The units can be monitored and managed via a simple and intuitive web interface.



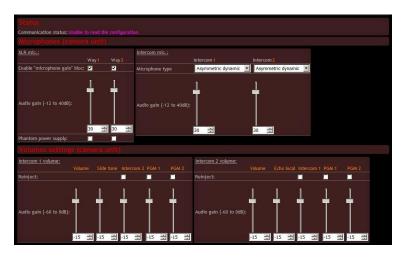
The status-alarms page displays all signals presence / activity for quick monitoring.

In regards to audio, the device integrates talkback headset interfaces suitable for any kind of mic (dynamic, electret, fully static) and any kind of earpiece impedance.

An internal audio console is available via the web interface which allows to control talkback, local audio channels inputs and program inputs. These signals can be mixed on every Camera unit audio outputs.

The **settings** page provides control for:

- Audio input type,
- Headsets type,
- · Mic gain & Headphone volume,
- Talkback mixing,
- Audio mixing,
- · Camera control,
- Tally settings,
- Setup save/recall.







Technical Specifications

| | CAM Racer 8K |
|---|---|
| Optical | |
| Dynamic range: 15 dB for control, 10dB for 12G channels | |
| Connector: LEMO 3K (EDW / FXW) or NEUTRIK OpticalCon DUO | |
| | |
| SDI Video HD to 12G | |
| Number: 1x3G 2x3G + optional 2x12G | 4x12G |
| Connector: 3G certified 75Ω BNC and 12G certified 75Ω BNC | |
| Standard: HD, 3G, 6G, 12G with optional 12G channels board Amplitude: Input: cable equalization on all channels including 12G, Output: 800 mV pp / re | alaakad |
| | Clocked |
| Return loss: Better than: -15 dB for 0 to 1.5 Ghz, -10 dB for 1,5G to 3G, -6dB for 3G to 12G | |
| Composite Video / GL | |
| Number, connector: $1 \times 75\Omega$ BNC from RX to TX $2 \times 75\Omega$ BNC from RX to TX | to TX |
| Standard: Composite video, Black Burst, Tri-level (Bi / Tri level auto sense) | |
| Performance: BW > 5.8 MHz at \pm +/- \pm 0.2 dB, DgDp < 1%, < 1°, Group delay < 10 ns, SNR > \pm 67 | dB (CCIR567) |
| Analog Audio | |
| Number, connector: 2 bidirectional channels, XLR 5pins on camera unit, XLR 3pins on base station | |
| Impedance: Input: 10 K Ω differential (non floating), Output: 20 Ω differential (non floating) | |
| Amplitude: +18 dBm maximum | |
| Bandwidth: 50 Hz to 15 KHz at +/- 0.5dB, (20 Hz to 20 KHz at -3 dB) | |
| Distortion: 0.05% at 1Khz / 0 dBm | |
| Signal to noise ratio: 90dB, "A" weighted | |
| | |
| Mic input | |
| Input: Microphone input gain block on the camera unit | |
| Mic input, Gain: From -12 to 40 dB, Tunable by 1 dB steps, Totally bypassable | |
| Dhantom navier 49 velta switchable Source Impedance 6.9 KO | |
| Phantom power: 48 volts switchable, Source Impedance 6.8 KΩ | |
| Phantom power: 48 volts switchable, Source Impedance 6.8 KΩ Timecode | |
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| Timecode Number, connector: 1 from basestation to camera unit, 75Ω BNC LANC Number, connector: 1 bidirectional, Jack2.5mm Protocol Standard LANC or RC-V100 remote protocol (5V open collector signaling) Data Number, connector: 1 bidirectional channel, RJ45 2 bidirectional channels, RJ45 for Chr Protocols, Data rate: RS485, RS422, RS232 from 0 to 500 Kbd/s Ethernet Number, connector: 1 channel, RJ 45 Protocols: 10 or 100 Mb/s, Full or Half-duplex (Auto sense), MDI or MDI-X (Auto sense) Intercom / Tally Number: 1 Tally, 1 Intercom 2 Tally, 2 Intercom Tally output: Relay (dry contact) shared with serial RJ45 (red) and Hirose 12 (green). Red/G Tally input: Contact or Voltage input. Shared on intercom D-SUB 25 pins with standard CC Camera Intercom I/O: Any type of Headset Mic (Dynamic, Electret, Static) and Earpiece impedance (2 Basestation Interc. I/O: Line levels for Intercom and program input Talk command: Pushbutton on cam unit, PTT input on RJ45 for pocket PTT switch. (Talk latch in Connector: XLR 5 pins (intcom1), Hirose 12 pin (intcom2), Standard D SUB 25 pins on bas Power section Camera unit: 7 Watts for Lite or Standard device / 10 Watts for 4K or 8K device. Camera power capacity 14.4V, 50W continuous 14.4V, 140W continuous or 13.2V, Battery plates: V-Lock or Anton Bauer Basestation unit: 10 VA for the basestation (Additionally up to 200VA for remote power source) | release on basestation) se (Tally, Intcom, PGM) |
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| Timecode Number, connector: 1 from basestation to camera unit, 75Ω BNC LANC Number, connector: 1 bidirectional, Jack2.5mm Protocol Standard LANC or RC-V100 remote protocol (5V open collector signaling) Data Number, connector: 1 bidirectional channel, RJ45 2 bidirectional channels, RJ45 for Ch² Protocols, Data rate: RS485, RS422, RS232 from 0 to 500 Kbd/s Ethernet Number, connector: 1 channel, RJ 45 Protocols: 10 or 100 Mb/s, Full or Half-duplex (Auto sense), MDI or MDI-X (Auto sense) Intercom / Tally Number: 1 Tally, 1 Intercom 2 Tally, 2 Intercom Tally output: Relay (dry contact) shared with serial RJ45 (red) and Hirose 12 (green). Red/G Tally input: Contact or Voltage input. Shared on intercom D-SUB 25 pins with standard CC Camera Intercom I/O: Any type of Headset Mic (Dynamic, Electret, Static) and Earpiece impedance (2 Basestation Interc. I/O: Line levels for Intercom and program input Talk command: Pushbutton on cam unit, PTT input on RJ45 for pocket PTT switch. (Talk latch to Connector: XLR 5 pins (intcom1), Hirose 12 pin (intcom2), Standard D SUB 25 pins on bas Power section Camera unit: 7 Watts for Lite or Standard device / 10 Watts for 4K or 8K device. Camera power capacity 14.4V, 50W continuous 14.4V, 140W continuous or 13.2V, Battery plates: V-Lock or Anton Bauer Basestation unit: 10 VA for the basestation (Additionally up to 200VA for remote power source) Mains source base: From 90 to 260 VAC / 47 to 63 Hz | release on basestation) se (Tally, Intcom, PGM) 200W continuous |

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