CAM RACER 8K



Dockable optical fiber transmission unit with 4x12G SDI for ENG up to 8K cameras



The CAM RACER is a complete optical fiber transmission solution for camera connection for Outside 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 four 12G-SDI channels, the CAM RACER 8K can fit any camera from simple ENG to 8K Live sport devices making it suitable for any environment and ideal for rentals.

CAM RACER 8K delivers 140 Watts to the camera. An automatic battery backup will help the remote powering system if more power is needed suddenly.

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.

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

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

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

CAM RACER 8K



Detailed Description

The transmitter is fitted in a V-mount dockable unit which can be installed on any camera. Red/green tally led are located on top of the unit.

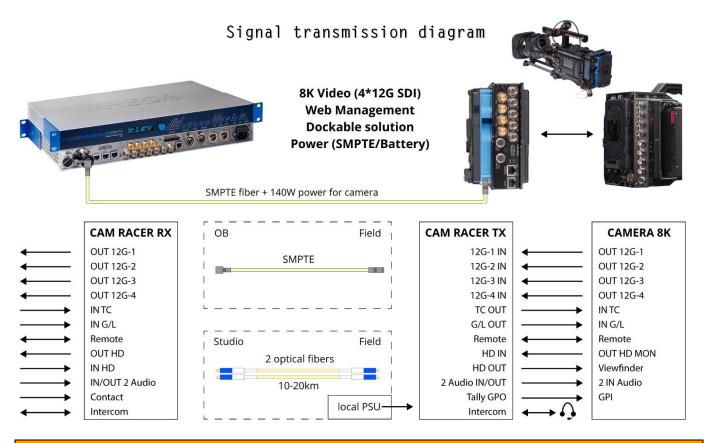
A user panel feature LEDs for signal presence/activity, rotary button for volume adjustment and various level settings (sidetone, program1 / program2 listen level) along with push to talk commands. Cooling of the unit is done by a small and silent fan located at the back of the unit.

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 3 standard configurations of CAM Racer.

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

Specifications (docking unit)	CAM Racer Lite	CAM Racer	CAM Racer 8K
SDI Channel	1x3G In	2x3G In + 2x12G In (optional)	4x12G In
HD (Monitoring, BNC or HDMI input autoswitch)	1 HD In		
HD (Viewfinder, BNC)	1 HD Out		
Ethernet 10-100 Mb/s	1		
Admin port for web management from basestation	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	1 2	
Intercom-Talkback channel	1 In/Out	2 In/Out	
Tally GPIO	1 Out	2 Out	
Remote power capacity for the camera	60W	140W	







Camera Power Section

CAM Racer is basically remote powered from its base station. The camera unit is able to source up to 140W of power for the camera at 450m of 9.2mm SMPTE cable. Power budget decreasing slowly for longer runs.

An optional V-lock battery support 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 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 and come back on the remote power supply to save battery energy.

Web Management and Audio Mixing

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



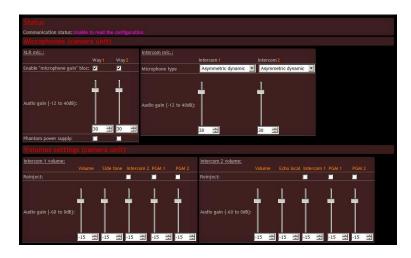
The status-alarms page displays all signals presence / activity for quick monitoring.

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 Lite	CAM Racer	CAM Racer 8K		
Optical					
Dynamic range:	15 dB for control, 10dB for 12G ch	annole			
Connector:	LEMO 3K (EDW / FXW) or NEUTR				
		rt optioaleen 200			
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 12				
Amplitude:		annels including 12G, Output: 800 n			
Return loss:	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 x 75Ω BNC from RX to TX	2 x 75Ω BNC	from RX to TX		
Standard:	Composite video, Black Burst, Tri-	level (Bi / Tri level auto sense)			
Performance:	BW > 5.8 MHz at +/- 0.2 dB, DgD _I	o < 1%, < 1°, Group delay < 10 ns, \$	SNR > 67 dB (CCIR567)		
Apolog Audio					
Analog Audio	2 hidirectional channels, VID Enin	o an agmara unit VID Oning on has	a atation		
Number, connector:		s on camera unit, XLR 3pins on bas			
Impedance:		ing), Output: 20 Ω differential (non fl	loating)		
Amplitude:	+18 dBm maximum	Hz to 20 KHz ot 2 dB/			
Bandwidth: Distortion:	50 Hz to 15 KHz at +/- 0.5dB, (20 Hz to 20 KHz at -3 dB) 0.05% at 1Khz / 0 dBm				
	90dB, "A" weighted				
Signal to noise ratio:	90dB, A weighted				
Mic input					
Input:	Microphone input gain block on th				
Mic input, Gain:	From -12 to 40 dB, Tunable by 1 dB steps, Totally bypassable				
Phantom power:	48 volts switchable, Source Imped	lance 6.8 KΩ			
Timecode					
Number, connector:	1 from basestation to camera unit, 7	5Ω BNC			
- rtannoci, comicotori					
1.4110					
LANC	A hidinastianal HashO From				
Number, connector:	1 bidirectional, Jack2.5mm	to protocol (EV appropriate simple	ling		
-		te protocol (5V open collector signa	ıling)		
Number, connector:		te protocol (5V open collector signa	ıling)		
Number, connector: Protocol			uling) 45 for Ch1, Hirose 12 for Ch2		
Number, connector: Protocol Data	Standard LANC or RC-V100 remo	2 bidirectional channels, RJ			
Number, connector: Protocol Data Number, connector: Protocols, Data rate:	Standard LANC or RC-V100 remo	2 bidirectional channels, RJ			
Number, connector: Protocol Data Number, connector: Protocols, Data rate: Ethernet	Standard LANC or RC-V100 remo 1 bidirectional channel, RJ45 RS485, RS422, RS232 from 0 to	2 bidirectional channels, RJ			
Number, connector: Protocol Data Number, connector: Protocols, Data rate: Ethernet Number, connector:	Standard LANC or RC-V100 remonstrated to the standard LANC or RC-V	2 bidirectional channels, RJ4 500 Kbd/s	45 for Ch1, Hirose 12 for Ch2		
Number, connector: Protocol Data Number, connector: Protocols, Data rate: Ethernet Number, connector: Protocols:	Standard LANC or RC-V100 remonstrated to the standard LANC or RC-V	2 bidirectional channels, RJ	45 for Ch1, Hirose 12 for Ch2		
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Number, connector: Protocol Data Number, connector: Protocols, Data rate: Ethernet Number, connector: Protocols: Intercom / Tally Number: Tally output: Tally input: Camera Intercom I/O: Basestation Inter. I/O: Talk command: Connector: Power section Camera unit: Camera power capacity (Standard 9.2mm SMPTE)	1 bidirectional channel, RJ45 RS485, RS422, RS232 from 0 to 3 1 channel, RJ 45 10 or 100 Mb/s, Full or Half-duple. 1 Tally, 1 Intercom Relay (dry contact) shared with secontact or Voltage input. Shared Any type of Headset Mic (Dynamic Line levels for Intercom and progr. Pushbutton on cam unit, PTT input XLR 5 pins (intcom1), Hirose 12 pt. 7 Watts for 2x3G basic device + Att.4V, 60W continuous V-Lock or Anton Bauer	2 bidirectional channels, RJ4500 Kbd/s x (Auto sense), MDI or MDI-X (Auto 2 Tally, 2 rial RJ45 (red) and Hirose 12 (green on intercom D-SUB 25 pins with star c, Electret, Static) and Earpiece implam input t on RJ45 for pocket PTT switch. (T in (intcom2), Standard D SUB 25 pin dditional 3W for dual 12G channel of 14.4V, 140W continuous, tempora	45 for Ch1, Hirose 12 for Ch2 sense) 2 Intercom n). Red/Green LED ndard CCU pinout ledance (20 to 600 Ohms) falk latch release on basestation) ns on base (Tally, Intcom, PGM) option ary unlimited with automatic battery h over 450m (100W at 600m).		
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Number, connector: Protocol Data Number, connector: Protocols, Data rate: Ethernet Number, connector: Protocols: Intercom / Tally Number: Tally output: Tally input: Camera Intercom I/O: Basestation Inter. I/O: Talk command: Connector: Power section Camera unit: Camera power capacity (Standard 9.2mm SMPTE) Battery plates: Basestation unit: Mains source base: Mechanical	1 bidirectional channel, RJ45 RS485, RS422, RS232 from 0 to 8 1 channel, RJ 45 10 or 100 Mb/s, Full or Half-duples 1 Tally, 1 Intercom Relay (dry contact) shared with se Contact or Voltage input. Shared Any type of Headset Mic (Dynamic Line levels for Intercom and progre Pushbutton on cam unit, PTT input XLR 5 pins (intcom1), Hirose 12 p 7 Watts for 2x3G basic device + A 14.4V, 60W continuous V-Lock or Anton Bauer 10 VA for the basestation (Additio From 90 to 260 VAC / 47 to 63 Hz	2 bidirectional channels, RJ4 500 Kbd/s x (Auto sense), MDI or MDI-X (Auto 2 Tally, 2 rial RJ45 (red) and Hirose 12 (greeton intercom D-SUB 25 pins with state, Electret, Static) and Earpiece impart input ton RJ45 for pocket PTT switch. (Tin (intcom2), Standard D SUB 25 pins dditional 3W for dual 12G channel of 14.4V, 140W continuous, tempora backup. Decreasing for lengtinally up to 200VA for remote power	45 for Ch1, Hirose 12 for Ch2 sense) 2 Intercom n). Red/Green LED ndard CCU pinout edance (20 to 600 Ohms) calk latch release on basestation) ns on base (Tally, Intcom, PGM) option ary unlimited with automatic battery h over 450m (100W at 600m). source)		
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