

ZERO-LATENCY COMPACT 4K CINE-LIVE FIBER SYSTEM

Orion

DUAL 12G. COMPLETE CAMERA CONTROL.



VIDEO, CONTROL, SYNC, AUDIO AND COMMUNICATIONS - ONE FIBER LINK

A lightweight fiber platform that turns virtually any cinema or broadcast camera into a compact live-production system.

Two 12G channels. One compact fiber path.

Orion carries independent camera signals, return video, reference, timecode, control, Ethernet, tally and intercom without conversion or added latency.

CAMERA ADAPTER**BASE STATION****2 x 12G**

independent camera inputs

1 x RET

re-clocked 12G return

~600m

hybrid fiber distance

1GbE

native RJ45 network

PARALLEL FORMATS: 12G / 6G / 3G / 1.5G / SD / ANALOG + GENLOCK (2L / 3L)

1 Independent signal paths

Different formats can travel simultaneously on separate channels, including analog Genlock beside 4K video.

2 Re-clocked BNC outputs

Return and SDI through outputs restore a clean waveform and support longer camera-station cable runs.

3 Native camera control

Sony RCP, serial, LANC, Ethernet and lens iris use familiar connectors and off-the-shelf cables.

4 Zero-latency communication

Optically isolated analog intercom crosses a discrete wavelength with no digitization or compression.

5 Built for the field

A lightweight magnesium enclosure combines professional full-size connectors with a compact form factor for cinema, studio and outside-broadcast rigs.

Native control. Instant communication.

Connect the controls crews already know. Orion preserves tactile camera operation, independent data paths and real-time analog communications from camera to control room.

BASE STATION - REAR CONNECTIVITY



SONY RCP

12-PIN SERIAL

LANC

LENS IRIS

1GbE LAN

Camera control

8-pin Sony RCP, 12-pin serial, dedicated 12-pin lens iris, 2.5 mm LANC and independent Ethernet.

Video and sync

Dual mirrored outputs for each camera channel, 12G return, Genlock, reference and timecode loop-through.

Dual power input

AC IEC and 4-pin XLR DC inputs support dependable studio, truck and mobile-system integration.

Zero-delay 2-wire / 4-wire intercom

Orion keeps communications in the analog domain on an optically isolated wavelength. Connect Clear-Com or RTS workflows directly, with no codec delay and no complex setup. Clear-Com 2-wire connections support embedded belpack power.

TACTILE DUAL-CHANNEL OPERATION

Front-panel controls provide quick status, microphone switching, program mix and headset volume without menu diving.



NO CODEC

NO ADDED DELAY

CLEAR-COM

RTS

Technical specifications

Camera Adapter and Base Station

FUNCTION	CAMERA ADAPTER	BASE STATION
VIDEO INPUT / OUTPUT		
Camera SDI	SDI IN 1: BNC x1 + THRU; SDI IN 2: BNC x1	SDI OUT 1 and 2: BNC x2 per channel
SDI formats	12G / 3G / HD / SD-SDI	12G / 3G / HD / SD-SDI
Return (BS to CA)	RET OUT: BNC x1; re-clocked	RET IN: BNC x1
Reference (BS to CA)	REF OUT: AUX x1	REF IN: BNC x1
Timecode (BS to CA)	TC OUT: AUX	TC IN / loop-through: BNC
Viewfinder output	HRS 12-pin x1 for NIPROS™ EVF-07N / HDF-EL700	-
AUDIO / INTERCOM		
Audio	Zero-latency analog program audio over fiber	Program mix and headset level controls
2-wire intercom	XLR 3-pin; Clear-Com compatible; beltpack power	BNC x1; Clear-Com / RTS interface
4-wire intercom	XLR 4-pin	DB-25 x1
Operator headset	XLR 4-pin or 5-pin, selectable	XLR 4-pin or 5-pin, selectable
TALLY / CONTROL / NETWORK		
Tally	BNC signal output; side red indicator with H / L / OFF	BNC voltage / red-green contact; front red / green indicator; DB-25 wet / dry
Sony RCP	Hirose 8-pin, RS-232 / RS-422	Hirose 8-pin, RS-232 / RS-422
Serial remote	Hirose 12-pin, RS-232 / RS-422; three serial paths	Hirose 12-pin, RS-232 / RS-422
Lens / LANC	Hirose 12-pin lens; LANC 2.5 mm	Hirose 12-pin iris; LANC 2.5 mm
LAN	1Gb/s RJ45	1Gb/s RJ45
FIBER / POWER		
Fiber connector	LEMO or Tajimi hybrid fiber	LEMO or Tajimi hybrid fiber
Maximum distance	Approx. 600 m / 1,970 ft	Approx. 600 m / 1,970 ft
AC input	-	AC 85-240 V, IEC
DC input	V-Mount x1	DC 12-15 V, XLR 4-pin x1
DC output	D-TAP x1, 15 V output, 3.5 A max.	To Camera Adapter via optical cable; HRS 4-pin x1
GENERAL		
Camera Adapter weight	Approx. 1.75 kg / 3.86 lb	-
Camera Adapter size	116 x 133 x 192 mm / 4.57 x 5.24 x 7.56 in	-
Base Station format	-	2RU half-rack

Specifications and appearance are subject to change without notice. Distances depend on cable and operating conditions.