

JVC[®]

The Perfect Experience / —
/

ProHD Fiber Remote System

FS-790

ProHD



Integrated Simplicity

Picture shows GY-HM790 with KA-F790NG Camera Adapter and KA-PW790AG Power Wafer



FS-790 is marketed under Telecast brand.



An Integrated Fiber-based System for Remote Applications

Ideal for a range of ENG and EFP applications, the FS-790 fiber optic multiplexing system replaces bulky multicore cables with durable, lightweight fiber cable for robust two-way communication between cameras and control systems.



KA-F790 Remote Fiber Adapter

Ideal for use in studio/EFP applications, the KA-F790 does not require any external cabling and offers a clean interface without clutter.

RM-FP790 Fiber Base Station

Easily integrated into any studio, portable flypack or OB van, the lightweight, 1U rack-mountable Base Station plugs directly into a facility's switcher, router, intercom and house sync systems.





Edge Hill University



WZVN



Ole Miss Athletics & Media Support Group

Realize full studio functionality for field applications with one single fiber cable

The KA-F790 custom designed camera back transceiver module attaches directly to the GY-HM790 body using a hidden 68-pin connector and enables broadcasters to leverage the GY-HM790's full studio functionality in the field. It connects the camera via SMPTE hybrid (powered) or tactical (unpowered) fiber optic cable to the RM-FP790 CopperHead base station typically located in a control room, flypack or OB van.



Professional System Solutions for a Range of Remote Applications

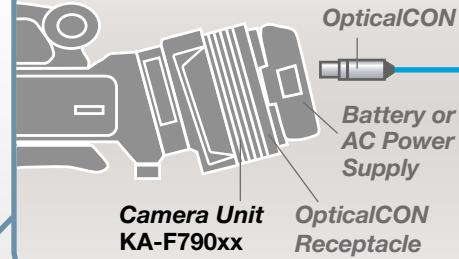
The JVC ProHD fiber systems include a camera adapter (for the GY-HM790) and base station, with either RTS intercom or CC (Clear-Com) compatibility. Additionally all units have a standard 4-Wire intercom interface. Two types of fiber connections options are offered, Neutrik OpticalCON connectors (powered or unpowered) and SMPTE 304M (powered).



Picture shows GY-HM790 with KA-F790NG Camera Adapter and KA-PW790AG Power Wafer

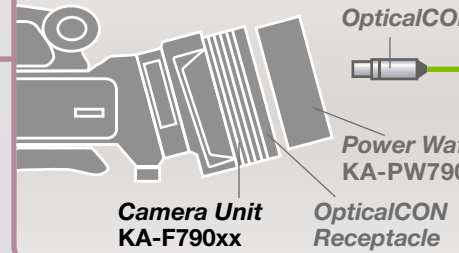
Unpowered Tactical Fib

Offering up to 10km (6.2 miles) on



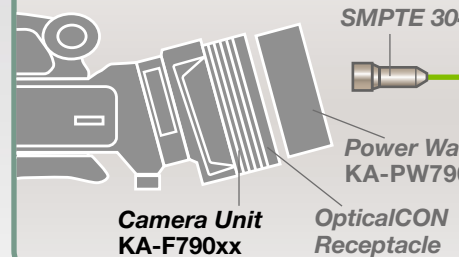
Powered Hybrid Fiber S

Offering up to 500m (1640 feet) on

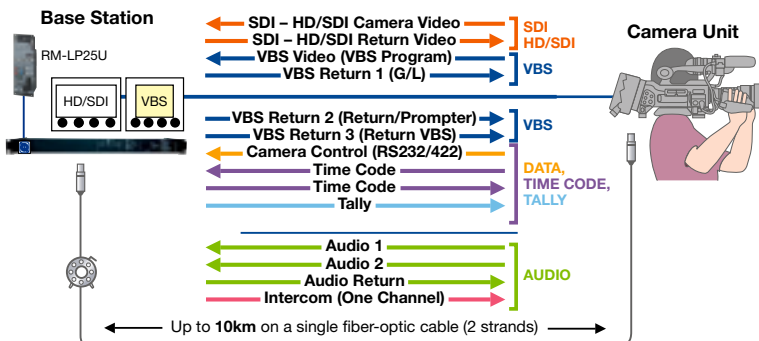


Powered Hybrid Fiber S

Offering up to 500m (1640 feet) on



Offers a direct connection to the camcorder without requiring external cables

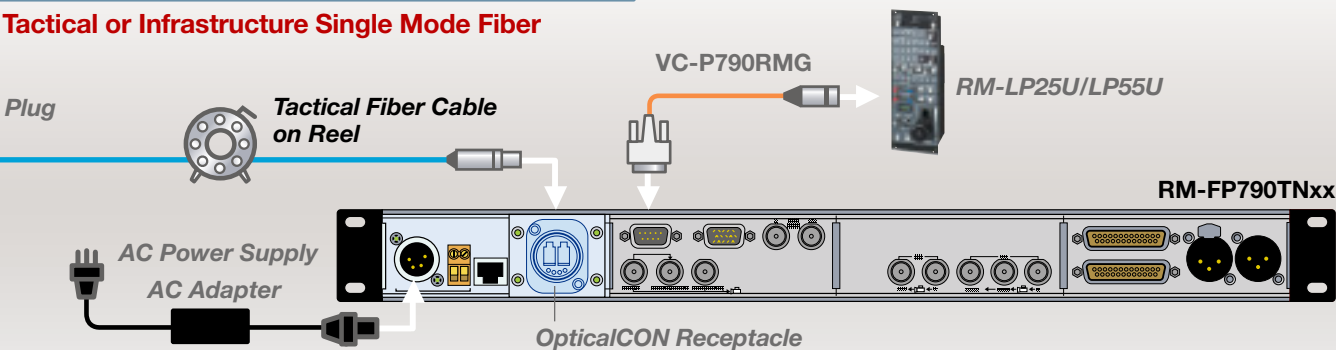


One single fiber cable covers all signals necessary in ENG and EFP applications

The system simultaneously transports bidirectional digital (SDI or HD-SDI) and analog (NTSC or PAL) video, as well as all two-way camera control, audio, video, data, sync, tally/call, prompter, and intercom signals between the camera head and the remote Base Station. The lightweight, 1 RU RM-FP790 Base Station is easily integrated into any studio, mobile truck, or portable flypack — and plugs directly into a facility's switcher, router, intercom, and house sync systems.

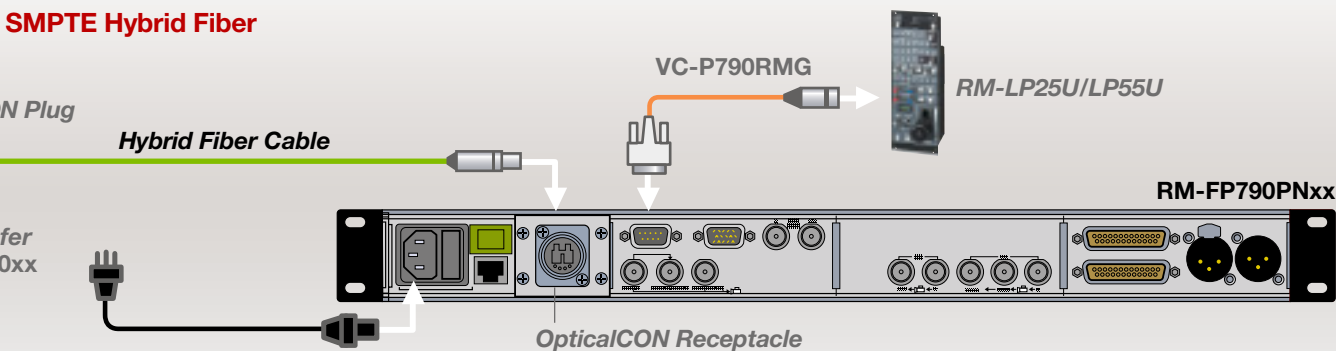
er Solution for Extended Distances

Tactical or Infrastructure Single Mode Fiber



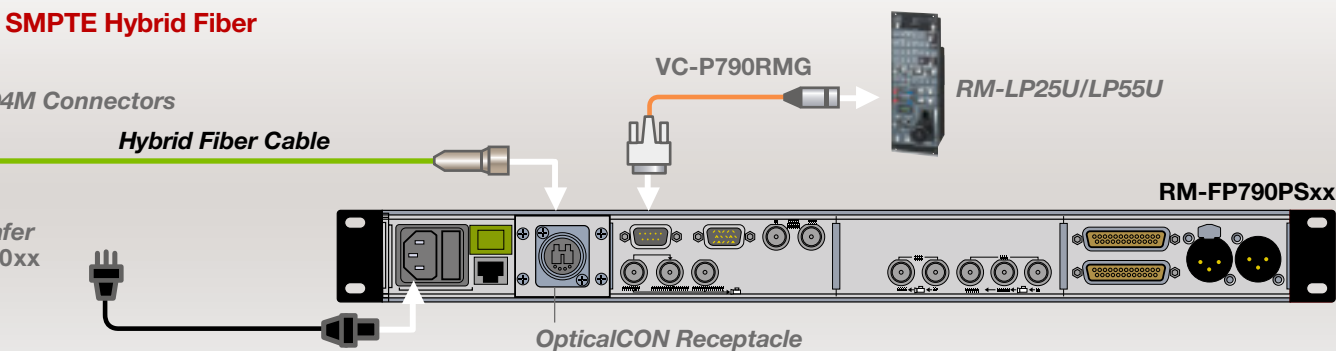
olution with OpticalCON Connectors

SMPTE Hybrid Fiber



olution with SMPTE 304M Connectors

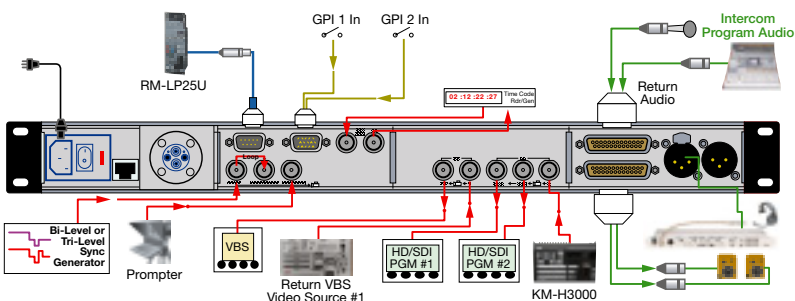
SMPTE Hybrid Fiber



Full Control through Extended Base Station Connections

Designed for total integration with existing systems, the RM-FP790 base station offers complete connections for video (two HD/SDI outputs with return SDI and VBS connections for analog signals), audio (RTS TW intercom module) and sync/control functions (bi-level or tri-level sync, prompter input, time code, GPI signals and remote camera control input), providing unprecedented control for a range of field applications.

RM-FP790xxxx Base Station Connections



Specifications Available with Each System

Type		FS-790TNRG	FS-790TNCG	FS-790PNARG	FS-790PNACG	FS-790PNVRG	FS-790PNVCG	FS-790PSARG	FS-790PSACG	FS-790PSVRG	FS-790PSVCG
Camera Adapter	KA-F790NG	●	●	●	●	●	●				
	KA-F790SG							◆	◆	◆	◆
Base Station	RM-FP790TNRG	●									
	RM-FP790TNCG		●								
	RM-FP790PNRG			●		●					
	RM-FP790PNCG				●		●				
	RM-FP790PSRG							◆		◆	
RM-FP790PSCG								◆		◆	
Power Wafer	KA-PW790AG			■	■			■	■		
	KA-PW790VG					■	■			■	■
Power Supply	AA-FP790G	■	■								
Remote Cable	VC-P790RMG	■	■	■	■	■	■	■	■	■	■

Optional Fiber Cable and Connector Type

Fiber Cables	
FS-CABTAC100	100 feet Tactical Cable/OpticalCON Connector
FS-CABTAC200	200 feet Tactical Cable/OpticalCON Connector
FS-CABTAC500	500 feet with reel Tactical Cable/OpticalCON Connector
FS-CABTAC1000	1000 feet with reel Tactical Cable/OpticalCON Connector
FS-CABTAC2000	2000 feet with reel Tactical Cable/OpticalCON Connector
FS-CABHYB100	100 feet Hybrid Cable/OpticalCON Connector
FS-CABHYB200	200 feet Hybrid Cable/OpticalCON Connector
FS-CABHYB500	500 feet Hybrid Cable/OpticalCON Connector
FS-CABHYB700	700 feet Hybrid Cable/OpticalCON Connector
FS-CABHYB100S	100 feet Hybrid Cable/SMPTE304M Connector
FS-CABHYB200S	200 feet Hybrid Cable/SMPTE304M Connector
FS-CABHYB500S	500 feet Hybrid Cable/SMPTE304M Connector
FS-CABHYB700S	700 feet Hybrid Cable/SMPTE304M Connector

●	Round = Neutrik plug
◆	Diamond = SMPTE plug
■	Square = Plug type irrelevant
■ ◆ ●	Green = Anton Bauer mount
■ ◆ ●	Red = IDX mount
■ ◆ ●	Black = Battery type irrelevant
	White field = RTS intercom
	Greyed field = ClearCom intercom

Specifications

Video, Digital (bi-directional)

Interface: SMPTE 259M, 292M
 Data Rate: 270Mbps or 1.5Gbps
 Input Level: 800mV (peak to peak)
 Input/Output Impedance: 75Ω
 Output Impedance: 75Ω
 Bit-Error Rate (@ -22 dBm): 10 – 12
 Jitter (pathological data): < 0.2UI
 Rise/Fall Times: < 270ps

Video, Analog (bi-directional)

Interface: RS170, NTSC, PAL
 Frequency Response
 30Hz - 4.2MHz: ±0.15dB
 8MHz: -3dB
 Video Signal to Noise Ratio: ≥ 72dB
 Differential Gain: < 2%
 Differential Phase: < 1°

Audio

Number of Channels: 1 – 2
 Type: Balanced, Line Level
 Impedance: >15KΩ
 Maximum Input Level: 24dBμ
 Quantization: 24bits, 128x (oversampled)
 Sample Rate: 48kS/sec.
 Frequency Response: ±0.1dB, 20Hz to 20KHz

Intercom

Number of Channels: 1
 Interface Types (Base): RTS or Clear-Com and 4-Wire
 Frequency Response: 200 – 18KHz ± 3dB
 Max Distortion: ≤ 0.5%
 Noise: < -60dBμ
 Max Gain (RTS or Clear-Com): ≥ 24dB
 Min Gain (RTS or Clear-Com): ≤ -45dB

Electro-Optical

Operating Wavelengths: 1300nm/1550nm
 TX Laser Output Power (std./opt): -6dBm/0dBm
 RX Sensitivity, HD/SDI: -22 dBm
 Fiber Compatibility: Single Mode

Mechanical/Environmental

Dimensions (W x L x D):
 Camera Unit: 2.5" x 6.5" x 2.2"/6.35 x 16.51 x 5.58 cm
 Base Station: 17.5" x 9" x 1.75"/44.45 x 22.86 x 4.44 cm
 Power Wafer: 5" x 6.12" x 2.2"/12.7 x 15.54 x 5.58 cm

Weight:

Camera Unit: 1.5 lbs./0.68 kg
 Base Station: 5.0 lbs./2.27 kg
 Power Wafer: 1.5 lbs./0.68 kg

Power Consumption

Camera Unit: 8 watts@10-18VDC
 Base Station (Tac Fiber): 10 watts@10-18VDC
 Temperature Range: -25° to +55°C
 Humidity Range: 0 to 95% RH, Non-condensing

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Simulated pictures.
 The values for weight and dimensions are approximate.
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