



The standard EFP To Fiber

Description:

BY-EFP-419 includes a Camera Optic Adaptor and a Optic Base Station. The system transports 1 ch 3G/HD-SDI signal from the camera to the Base Station, intercom (Camera end can be connected professional 4-pin or 5-pin XLR headset, OB end can be connected intercom main station), tally. The system puts all of the signals needed for multi-camera 3G/HD-SDI production on a fiber cable, insuring robust, trouble-free connectivity on any studio or remote production. The bottom of the screw hole can be fitted with a camera shoe mount.

Application:

1. Television Broadcast(studio):
 - Sports
 - News
 - SNG
 - Trackside
2. Links Between in-field and OB van(outside broadcast truck)

Features:

- 1 ch forward SDI
- Handle all Pathological patterns
- Automatic cable equalization to ensure signal integrity
- 3G/HD/SD-SDI input auto recognition, support 270Mbit/s - 2.97Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M
- 10+Km on single mode fiber transmission
- Mic inputs with mute and pre-amps
- Headphone with volume up or down
- Tally LED+/- output or dry Contact Closure optional
- Genlock or TC/BB are optional
- Remote control data is also optional
- Bottom screw hole can be installed with a camera shoe mount

Specifications:

General index:

Work Temp	-25°C to 55°C
Storage Temp	-40°C to 85°C
humidity	0 ~ 95% (non-condensing)
Camera Optic Adaptor	

Input power	DC 11~19V
Power consumption	<10W
Net weight	<0.5kg
Appearance size	140mm*82mm*28mm
Optic Base Station	
Input power	AC90~240V
Power consumption	<20W
Net weight	3kg
Appearance size	19" 1U standard rack mount

Optical:

Wavelength	1310nm / 1550nm / CWDM
Output Power	-6~-1dBm
Rx sensitivity	<-18dBm
Transmission Distance	SM fiber10km, MM fiber 550m
Optical connector	ST / FC / SC / LC

SDI input/output:

Signal format	SMPTE 424M, SMPTE 292M, SMPTE 259M
Data rate	270Mbit/s - 1.48Gbit/s - 3Gbit/s
Cable Equalization	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
SDI interface	BNC 75 Ohm

Genlock / TC / BB(optional):

Number of Channels	1
Input/output impedance	BNC 75Ω (unbalance)
Input/output voltage	1.0Vp-p
Differential Gain	< ±1.5%
Differential Phase	< ±1%
SNR	>60dB

Intercom:

Camera Optic Adaptor	
Interface	4pin XLR(Male) /5pin XLR(Female)/ 3.5mm headset jack
Microphone	Mic inputs with mute and pre-amps
Headphone	with volume up or down
Optic Base Station	
Interface	DB9(Female) or 3.5mm jack: Line level unbalanced audio input and output,

Tally:

Camera Optic Adaptor	
Interface	3.5mm jack or 3pin mini XLR
Output	Dry Contact Closure or wet LED+/-
	On: short or LED on Off: open or LED off

Optic Base Station	
Interface	DB9(Male)
Input	Dry Contact Closure or TTL
	On: short to GND or TTL low Off: open or TTL high

Panel diagram(Satellite+ Base):

