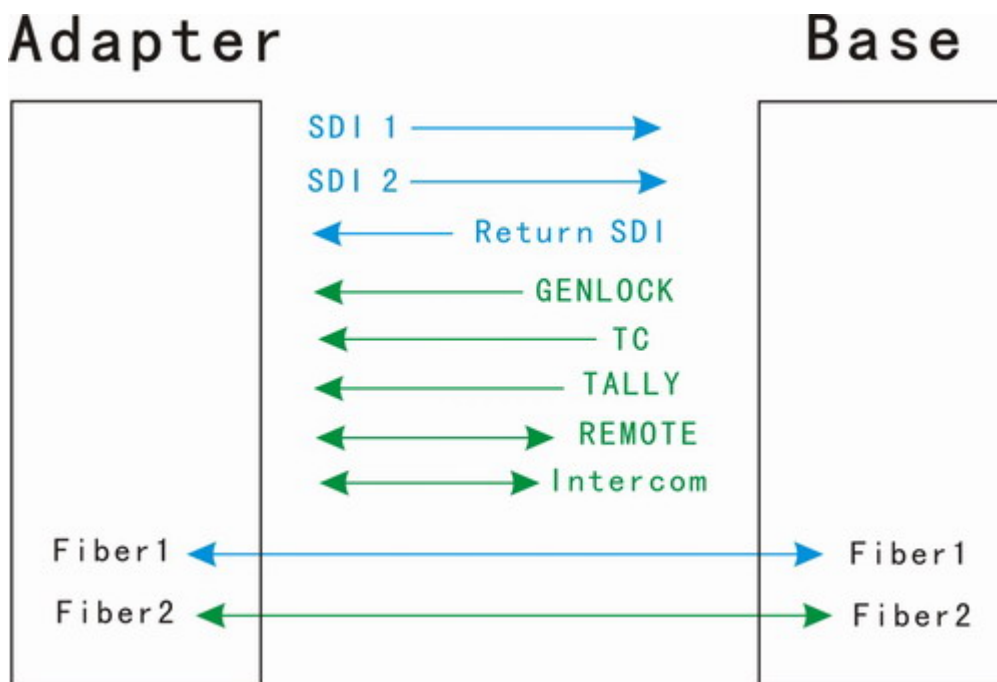




EFP To Fiber with 2 forward and 1 Reverse SDI

Description

BY-EFP-409 includes a Camera Optic Adaptor and a Optic Base Station. The system transports 2 ch 3G/HD-SDI signal from the camera to the Base Station, 1 ch Reverse 3G/HD-SDI, Genlock and TC, Sony or Panasonic Remote control data, , intercom(Camera end can be connected professional 4-pin or 5-pin XLR headset, OB end can be connected Clearcom or RTS , etc intercom main station), tally(One color or two colors can be selected). The system puts all of the signals needed for multi-camera 3G/HD-SDI production on a SM tactical or SMPTE hybrid cable, insuring robust, trouble-free connectivity on any studio or remote production.



Application:

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

Features:

- 2 ch forward and 1 ch reverse 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
- Sony or Panasonic remote control
- Tally LED+/- output or dry Contact Closure optional
- V-mount or A-mount battery plate optional
- Genlock and TC are also available

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	1kg
Appearance size	188mm*116mm*45mm (without V-mount / A-mount)
Optic Base Station	
Input power	AC90~240V
Power consumption	<10W
Net weight	3kg
Appearance size	19" 1U standard rack mount

Optical:

Wavelength	1310nm / 1550nm / CWDM
Output Power	-6~-1dBm
Rx sensitivity	<-18dBm
Transmission Distance	SMPTE hybrid cable 300+m
Optical connector	Lemo SMPTE 304 / Neutrik OpticalCON DUO

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

Number of Channels	1+1
Input/output impedance	BNC 75Ω (unbalance)
Input/output voltage	1.0Vp-p

Differential Gain	< $\pm 1.5\%$
Differential Phase	< $\pm 1\%$
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	3pin XLR Female/Male: Party line audio for Clearcom and RTS Intercom main station DB9(Male): Line level audio input and output,

Tally:

Camera Optic Adaptor	
Interface	4pin air head 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

Remote:

Camera Optic Adaptor	
Interface	8pin sony's or 10pin Panasonic's remote interface
Data	RS422 /RS232/RS485
Optic Base Station	
Interface	DB9(Female) / 8pin sony's or 10pin Panasonic's remote interface
Data	RS422 /RS232/RS485

Panel diagram(Satellite+ Base):

