An economic solution designed for fiber transmission
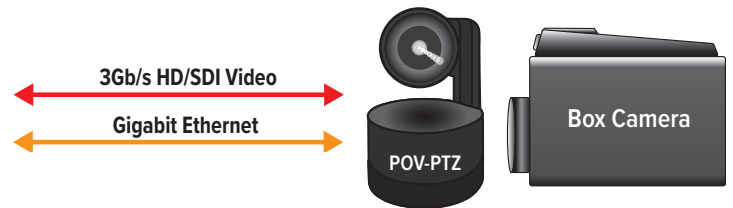

Transmit

Receive

The VB-3812 is part of the versatile LightBrix line of compact, rugged fiber transport products. Ideal for a box camera mounted to a robotic PTZ head, the VB-3812 will transport a full complement of camera signals, including 4K quad link, as well as an option to supply power to the transmitter and camera, via an SMPTE hybrid cable. By utilizing the SMPTE cables fiber strands for signal transport and its copper wires for power, the transmitter unit, camera and PTZ head all receive power from the base unit. This allows for flexible setup, strike, and mobility by having the entire camera position free of power outlets.

FEATURES

▷ 3G Video Options (multiple channel options available)

▷ 10/100/1000 Ethernet (multiple channel options available)

▷ Remote camera and system power (optional)

APPLICATIONS

▷ POV with robotic control

▷ Camera signal extender

▷ Studio link

APPLICATION

3Gb/s HD/SDI Video

Gigabit Ethernet

Base Station

POV-PTZ

Box Camera

Camera Unit

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Video & Fiber Optic Systems

VB-3812 LightBrix
Camera & POV/PTZ
Fiber Transport

TECHNICAL SPECIFICATIONS

Digital Video

Video Connectors	BNC
Transmitter	1 to 4 inputs
Receiver	1 to 4 outputs
Standard	SMPTE 424M, 297M, 292M, M259M-C, DVB-ASI
Input Coax EQ	3 Gbps: 12OM 1.485 Gbps: 240M 143-260 Mpbs: 450M
Input Level	100mV (peak to peak)
Impedance	75 Ohms
Return Loss	>15 dB at 5MHz-1.485 GHz >10 dB up to 3 GHz
Jitter	< 0.3UI under 1MHz
Rise/fall Times	< 800ps (SD), < 130ps (HD)
Bit-error Rate	10e-12

Optical

Operating Wavelengths	1471-1611nm
Tx Laser Output Power	0dBm (Class 1 Laser)
Receiver Sensitivity	-20dBm
Fiber Compatibility	Single-mode
Optical Connector Types	SC, ST, LC
Distance Limit	20km w/Single-mode

Overall

Dimensions	(LxWxH) 7.25"x5.75"x1.75"

Power

Power Input:	2.5mm jack
Center Pin	+
Power Rating:	nominal 15w max@12 VDC

Ethernet

Number of Channels	1
Data Rate	10/100/1000 Base T

ORDERING INFORMATION

If you don't see the model you need below, please contact your MultiDyne salesperson for other available signal configurations.

Part #	Description
VB-3812-1A-XX-EA-ST	3G-SDI Video & Gigabit Ethernet Transceiver, 1 Single-mode fiber, ST connector
VB-3812-1B-XX-EB-ST	3G-SDI Video & Gigabit Ethernet Transceiver, 1 Single-mode fiber, ST connector
VB-3812-1T-XX-EA-ST	3G-SDI Video Transmitter with Gigabit Ethernet, 1 Single-mode fiber, ST connector
VB-3812-1R-XX-EB-ST	3G-SDI Video Receiver with Gigabit Ethernet, 1 Single-mode fiber, ST connector
VB-3812-2A-XX-EA-ST	2 Two-way 3G-SDI Video & Gigabit Ethernet Transceiver, 1 Single-mode fiber, ST connector
VB-3812-2B-XX-EB-ST	2 Two-way 3G-SDI Video & Gigabit Ethernet Transceiver, 1 Single-mode fiber, ST connector
VB-3812-4T-XX-EA-ST	4 One-way 3G-SDI Video Transmitter with Gigabit Ethernet, 1 Single-mode fiber, ST connector
VB-3812-4R-XX-EB-ST	4 One-way 3G-SDI Video Receiver with Gigabit Ethernet, 1 Single-mode fiber, ST connector

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