



BROADCAST FIBER OPTIC SOLUTIONS

USER MANUAL

CMX-3G-4SDI

**4-Channel 3G-SDI Multiplexer
Over Singlemode Fiber Extender**



CMX-3G-4SDI Fiber Extender Kit

The Complex CMX-3G-4SDI multiplexer converts four 3G-SDI camera inputs to one singlemode fiber supporting SMPTE 424M 3Gbps HD-SDI transmission up to 6 miles. The transmitter and receiver feature industry standard ST fiber connectors, quality 3G-SDI BNC connectors, and a DC power jack.

Includes

- 1 Transmitter
- 1 Receiver
- 2 Power supplies, 12VDC/1A



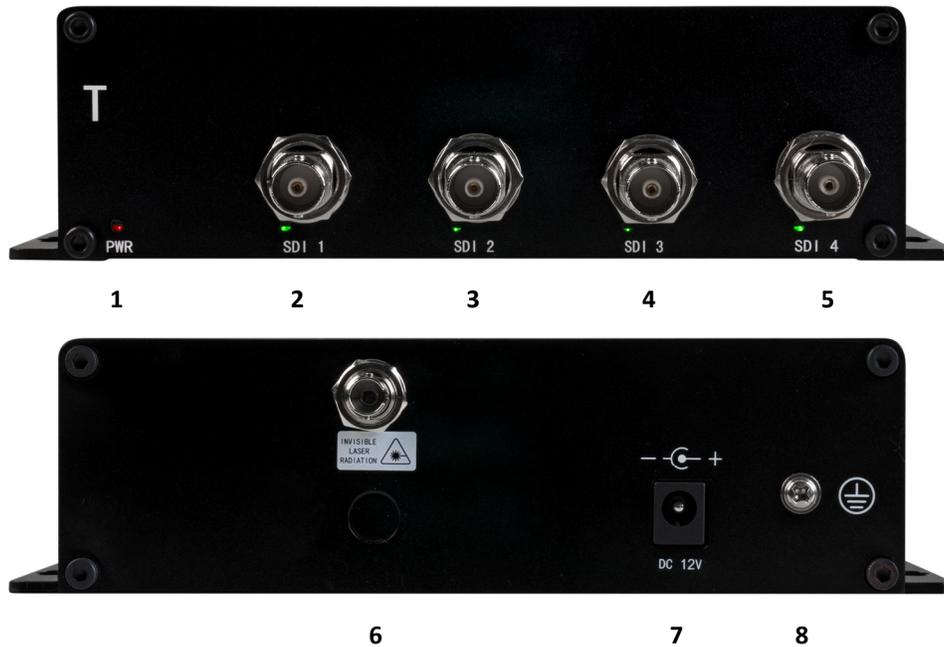
Features

- ST fiber connectors
- XLR power connectors
- Converts 4 - 3G SDI camera inputs to one singlemode fiber
- Saves space and set up time
- Extends transmission distance
- Immune to EMI
- Supports SMPTE-424M 3Gbps HD-SDI transmission up to 6 miles

Specifications	
Input Power	12VDC/1A Center Positive
Power Adapter	Input: 110-240VAC, 50/60Hz, 0.45A
Power Consumption	8W
Signal Format	SMPTE 424M, SMPTE 292M, SMPTE 259M
Data Rate	270Mbit/s-1.48Gbit/s-3Gbit/s
SDI Interface	BNC 75 Ohm
Fiber Interface	ST Singlemode
Transmission Range	Up to 6 miles, SMPTE-424M 3Gbps HD-SDI
Unit Dimensions	6.6 x 6.06 x 1.77 in/168 x 154 x 45mm (each unit)
Weight	2.75 lb/1.25kg (each unit)

CMX-3G-4SDI Features

Transmitter



- | | | | |
|---|--------------------------------|---|----------------------------------|
| 1 | Power Indicator LED | 5 | SDI Input 4 with LED Indicator |
| 2 | SDI Input 1 with LED Indicator | 6 | ST Singlemode Fiber Optic Output |
| 3 | SDI Input 2 with LED Indicator | 7 | 12VDC/1A DC Power Jack |
| 4 | SDI Input 3 with LED Indicator | 8 | Chassis Ground Screw |

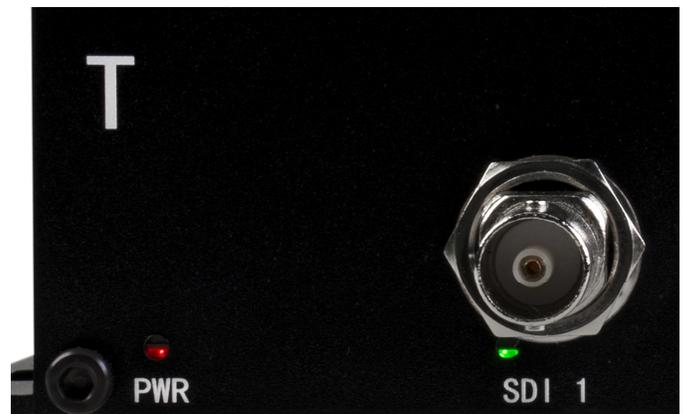
LED Indicators

Power LED

When power is properly connected, LED will be red.
When there is a problem, LED will blink or not light.

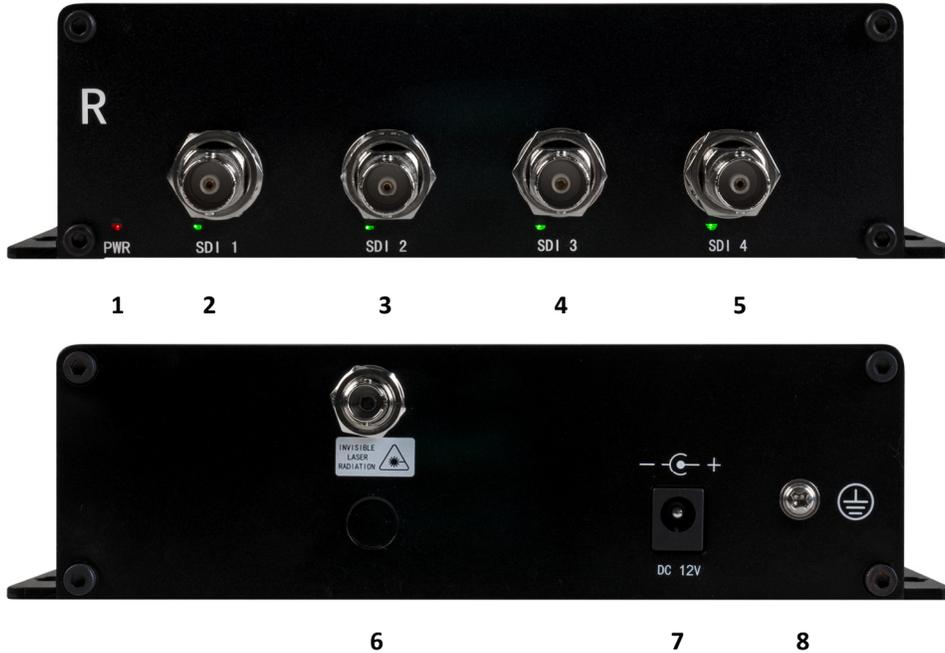
SDI Input LED

- TX SDI LED will be green when the SDI input is connected to a valid SDI signal.
- RX SDI LED will be green when the SDI output is transmitting a valid SDI signal and the transmitter and receiver are properly connected with a fiber cable.



CMX-3G-4SDI Features

Receiver



- | | | | |
|---|---------------------------------|---|----------------------------------|
| 1 | Power Indicator LED | 5 | SDI Output 4 with LED Indicator |
| 2 | SDI Output 1 with LED Indicator | 6 | ST Singlemode Fiber Optic Output |
| 3 | SDI Output 2 with LED Indicator | 7 | 12VDC/1A DC Power Jack |
| 4 | SDI Output 3 with LED Indicator | 8 | Chassis Ground Screw |

LED Indicators

Power LED

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SDI Input LED

- TX SDI LED will be green when the SDI input is connected to a valid SDI signal.
- RX SDI LED will be green when the SDI output is transmitting a valid SDI signal and the transmitter and receiver are properly connected with a fiber cable.



CMX-3G-4SDI Set Up Instructions

1. Secure the units in a safe location, where they will not be subject to impact and where there is room around the unit so nothing will interfere with the fiber optic cabling causing it to bend sharply in a tight radius in any way which can severely affect the signal transfer.
2. Carefully connect your source(s) to the transmitter input(s) and the receiver unit output(s) to your receiving device input(s) using the BNC connectors on the transmitter and on the receiver unit.
3. CLEAN* the ST fiber optical cable contacts that will be used for connecting the Tx and Rx units and attach the fiber cable to the ST connections and secure, as you would secure a bayonet BNC. While pressing lightly in on the connector, twist it in a clockwise direction about 1/8 to 1/4 of a turn and then release. The connector should stay inserted and have backwards spring pressure holding the bayonet in place.
4. Connect the included power supplies to the transmitter & receiver units, and plug them both into an AC power source.

* CLEAN: All fiber optical cable contacts (the end that is inserted and makes contact to enable light wave transmission through the fiber) require cleaning each time before inserting into a device's outputs or inputs. Failure to clean the contacts can damage the unit's optics over time and also render the cable and the device nonoperational.

Use cleaning kits designed specifically for fiber optics. Other cleaners may add contaminants not seen by the naked eye which could damage cables and/or equipment.



SAFETY PRECAUTIONS



1. To prevent fire or shock hazard, do not expose this equipment to high humidity and dust. Do not use in an unprotected outdoor installation nor any area classified as overly damp.
2. The temperature for installation should be kept between 32°F to 140°F (0°C to 60°C). Avoid direct sunlight exposure or extreme changes of temperature over a short period of time.
3. Do not disassemble the unit or place it on an unstable base.
4. Do not drop the unit and avoid heavy impact.
5. This unit should not be permanently installed unless proper ventilation is provided. Any enclosure openings must not be blocked or covered as they protect the unit from overheating.
6. Before cleaning, turn off the power and unplug the unit from all connections. Use a damp cloth. Do not use liquid or aerosol cleaners.
7. Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
8. Enclosure entry is dangerous. Never push objects of any kind, including liquids, into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
9. Do not attempt to open or service this unit yourself as opening or removing covers may expose you to dangerous voltage and other hazards.
10. There are no user-serviceable parts inside the unit. If the unit requires service contact your authorized dealer, or an authorized repair service company.

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