

#### **BROADCAST FIBER OPTIC SOLUTIONS**

## USER MANUAL CAMPLEX FIBERGIG

2-Channel 3G-HD/SDI Video & GigaBit Ethernet Fiber Optic Transport



CMX-FG600—opticalCON Quad I/O



CMX-FG650—ST Fiber I/O

#### CMX-FG600/FG650

### Camplex 2-Channel 3G-HD/SDI Video & GigaBit Ethernet Fiber Optic Transport

The Camplex FIBERGIG CMX-FG600/CMX-FG650 is a 1GIGe 802.3at/afand 2-Channel 3G-SDI over singlemode fiber optic video transport system in a rackmount enclosure with either one opticalCON quad connector (model FG600) or four ST connectors (model FG650) and a 10/100/1000-GIGe Ethernet media converter. The transport system is a convenient rackmount solution for transporting data and power and long haul video extension up to 12 miles.

The system features looping outputs for every 3GSDI input for local monitoring or recording, and all outputs at receivers are dual outputs. Automatic equalizing and re-clocking ensure a crisp, clean 3GSDI signals over long distances. Designed for remote trucks, field production, and live events saving installation time and space. A single IEC AC power cord powers each unit which reduces the number of cables.

#### Includes

- Two 1RU cabinets: one TX and one RX unit
- Two standard 6 foot IEC type power cords
- Rack screws for installation in a standard 19" equipment rack

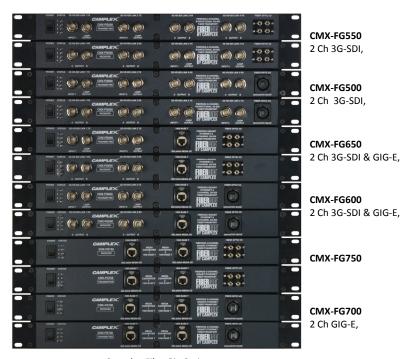
#### **Features**

- 2 Channels 3GSDI and 1 Channel [RJ45 Port] GigE
- Ethernet spec meets DANTE requirements 802.3at/af
- Gigabit Ethernet features up to 1000BaseT to 1000BaseX fiber support
- RJ45 to Fiber Ethernet Converter Port
- Up to 30 watts of power PoE Ethernet port
- Convenient single rack unit enclosure with front panel connections
- Standard IEC 110/240vac 50/60Hz power inlet on back panel
- Singlemode fiber connections
- Automatic cable equalization and re-clocking
- Extends transmission capability up to 12 miles (20km)

#### CMX-FG600/FG650

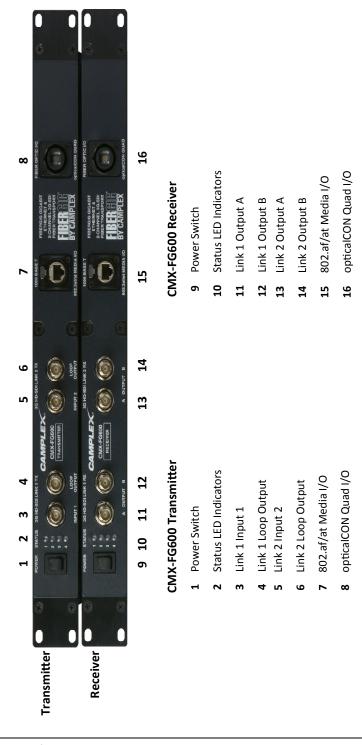
#### **Specifications**

- Supports SDTV (143-540Mbps) and HDTV (1.485Gbps, and 3Gbps, 1080p60) image resolutions
- 802.3at/802.3af PoE standards compliance
- SMPTE 424/292M/259M standards, DVB-ASI
- Video Connector = 75Ω BNC
- Supports signal type: 270Mbit/s to 3Gbit/s
- Black anodized aluminum housing
- Rugged Neutrik/Senko connectors

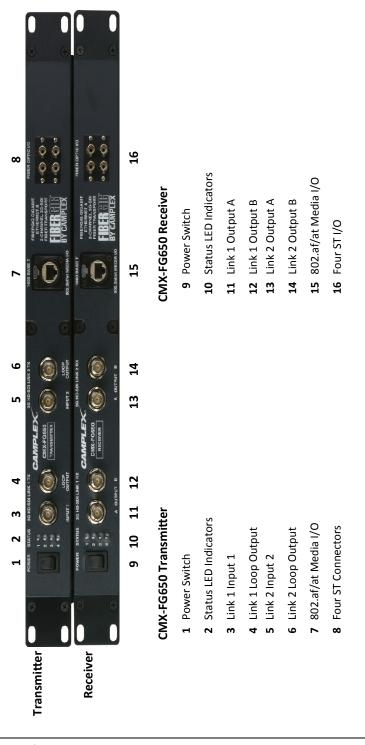


Camplex FiberGig Series

# **CMX-FG600 Features**



# **CMX-FG650 Features**



### CMX-FG600/FG650 Features Back Panel

17



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#### CMX-FG600/650 Transmitter & Receiver

**17** AC Power Input 2A/110-240VAC 50/60Hz

#### CMX-FG600/650 Set Up Instructions

- 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.
- 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 and Cat 5/5e/6 UTP cable RJ45 connectors on the transmitter and on the receiver unit.
- 3. CLEAN\* the fiber optical cable contacts that will be used for connecting the Tx and Rx units and attach the fiber cable to the 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**



- To prevent fire or shock hazard, do not expose this equipment to high humidity and/or 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.
- 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.
- 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.
- 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.
- 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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