

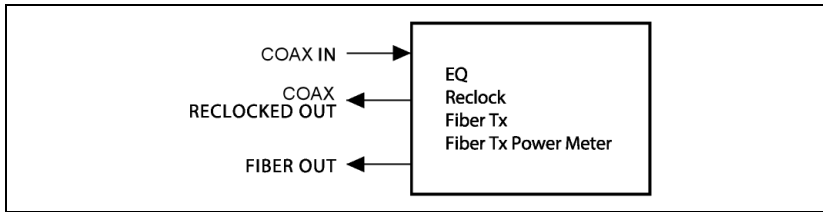
# BBG-EO-MK2 Coax-To-Fiber

3G/HD/SD-SDI / ASI / MADI Fiber Optic  
Transport Transmitter

The **BlueBox™ BBG-EO-MK2 Coax-To-Fiber** (hereinafter called “BlueBox™ EO”) provides a small “throwdown” package that supports SMPTE 424M, 292M, and 259M as well as ASI and MADI audio. Auto-mode EQ/reclocking automatically sets to the signal type being received while allowing unrecognized formats to be safely passed without reclocking (auto-reclock can also be manually disabled for either path as desired). Its wide operating range (from 5Mbps to 3Gbps) flexibly supports most professional digital serial communications. Fully error-free pathological pattern operation is fully compatible with professional fiber video interfaces.

**Note:** BlueBox™ EO does not support AES-3id transports.

The unit receives its DC power from either connecting its USB port to associated equipment, or by the supplied AC adapter.



## Connecting BlueBox™ EO

1. Connect BlueBox™ EO to DC power using the supplied AC adapter.
2. Remove any protective caps on fiber cables and/or input receptacles. Connect BNC Coax input and Fiber output to input/output. This provides the basic conversion connections. Unused connections do not require termination.

	<p>CLASS 1 LASER PRODUCT IEC 60825-1:2007 Caution - INVISIBLE LASER RADIATION. AVOID EXPOSURE TO THE BEAM.</p>
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## Status Indicator

BlueBox™ EO has a **Status** LED on the side of the unit which functions as follows:

- **Solid Green** – Recognized SDI present.
- **Green Flash** – No SDI present, or not recognized as SDI.

## Reclocker Auto/Bypass Switches

BlueBox™ EO DIP switch SW2 allows for reclocker Auto-Bypass when recognized SDI is not being received, or Always Bypass reclocking. Refer to illustration on rear label on unit for switch positions.

## Configure Select Using DIP Switch Bank

BlueBox™ EO can be used in a local control mode using DIP switches to configure settings, or via USB remote control. The USB remote also provides an optical Tx power meter for Tx confidence assessment. Refer to diagram on unit label for switch positions.

- **If using DIP switch control**, make certain switch SW1 is set to **ON**. USB remote control is locked out in this mode.
- **If using USB remote control**, make certain switch SW1 is set to **OFF**. DIP switch local control is locked out in this mode.

## Specifications

Item	Description/Specification
Part Number/ Nomenclature	- BBG-EO-MK2-FC 3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Transmitter (Type FC fiber connectors) - BBG-EO-MK2-ST 3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Transmitter (Type ST fiber connectors) - BBG-EO-MK2-LC 3G/HD/SD-SDI / ASI / MADI Fiber Optic Transport Transmitter (Type LC fiber connectors)
Power:	5-16 VDC, 2.4 W DC Power Connectors USB Mini and coaxial locking connector (for use with supplied Cobalt power adapter)
Standards/Data Rates supported:	SMPTE 424M, 292M, 259M, 344M, 305M, DVB-ASI 5Mbps to 3Gbps pathological pattern operation (does not support AES-3id audio or other standards using data rates < 5Mbps)
Input:	(1) 75Ω BNC. Reclocking automatically engaged for recognized signal standards; bypassed for unrecognized standards.
Outputs:	(1) Fiber output. FC, ST, or LC connectors per ordered configuration (see Part Number/Nomenclature above) Wavelength: 1310 nm Power: -5.0 dBm (min) (1) 75Ω BNC input copy. Reclocking automatically engaged for recognized signal standards; bypassed for unrecognized standards. Return Loss: >18 dBm up to 270 MHz
Dimensions (WxHxD):	5.5" x 3" x 1" (including connector projections) (139 x 77 x 26 mm)
Operating Temperature Range	32°F to 122°F (0°C to 50°C)

## Warranty and Service Information

### Cobalt Digital Inc. Limited Warranty

This product is warranted to be free from defects in material and workmanship for a period of five (5) years from the date of shipment to the original purchaser, except that 4000, 5000, 6000, 8000 and Blue Box series power supplies, and Dolby® modules (where applicable) are warranted to be free from defects in material and workmanship for a period of one (1) year.

Cobalt Digital Inc.'s ("Cobalt") sole obligation under this warranty shall be limited to, at its option, (i) the repair or (ii) replacement of the product, and the determination of whether a defect is covered under this limited warranty shall be made at the sole discretion of Cobalt.

This limited warranty applies only to the original end-purchaser of the product, and is not assignable or transferable therefrom. This warranty is limited to defects in material and workmanship, and shall not apply to acts of God, accidents, or negligence on behalf of the purchaser, and shall be voided upon the misuse, abuse, alteration, or modification of the product. Only Cobalt authorized factory representatives are authorized to make repairs to the product, and any unauthorized attempt to repair this product shall immediately void the warranty. Please contact Cobalt Technical Support for more information.

To facilitate the resolution of warranty related issues, Cobalt recommends registering the product by completing and returning a product registration form. In the event of a warrantable defect, the purchaser shall notify Cobalt with a description of the problem, and Cobalt shall provide the purchaser with a Return Material Authorization ("RMA"). For return, defective products should be double boxed, and sufficiently protected, in the original packaging, or equivalent, and shipped to the Cobalt Factory Service Center, postage prepaid and insured for the purchase price. The purchaser should include the RMA number, description of the problem encountered, date purchased, name of dealer purchased from, and serial number with the shipment.

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### Cobalt Digital Inc.

The logo for Cobalt Digital Inc. features the word "COBALT" in a blue, sans-serif font. The letter "O" is stylized with a horizontal line passing through its center. The entire logo is underlined with a thin blue line.

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