



# Fiber Optic Components

## EHT PRODUCTS

### Precision Integrators

Precision Continuous Integrator PCI1

### Fiber Optic Components

1 Channel Fiber to BNC FR-1

1 Channel BNC to Fiber FT-1

8 Channel Fiber Receiver FR-8

8 Channel Fiber Transmitter FT-8

Interlock Controller ILC-16

### Power and Switching

High Power IGBT Switching

Piezo/Puff Valve Drivers

30 kV Isolated Control Power

### Services

Custom Pulsed Power Design

Ultra High Vacuum Design

Experimental Systems Design

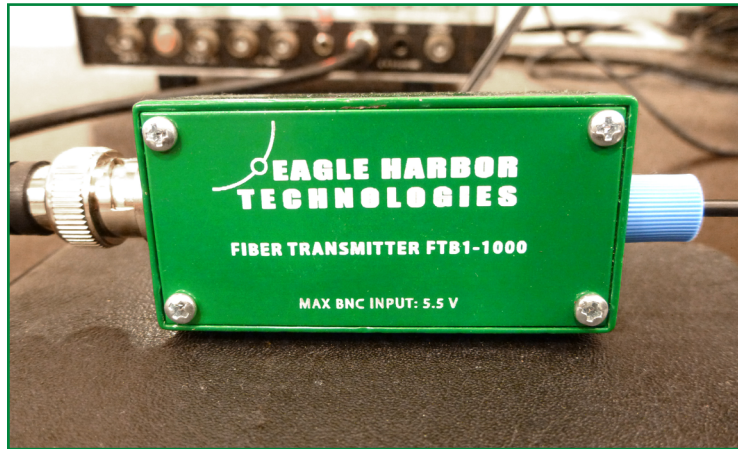
### Technology

High-Ionization Plasma Sources

Cubesat Micropropulsion

GPU Parallelized Computation

## BNC to Fiber Transmitter (FT-1)



The FT-1 BNC to Fiber Transmitter interface unit from Eagle Harbor Technologies Inc., offers flexible and affordable fiber interfacing for typical laboratory control needs. Robust and reliable, the FT-1 is ideally suited for applications such as safe, noise immune triggering of an experiment using 2.2 mm plastic fiber, or communication with our other fiber optic products. The FT-1 is internally terminated with 50  $\Omega$ , though for slow signal processing this can be removed. Housed in a powder-coated aluminum enclosure, the FT-1 is designed to last even in demanding environments. A 5 VDC wall transformer is included, powering the device via the mini-jack power inlet. Indispensable for the complexities of the laboratory, where flexibility and setup portability is desired. For more permanent installation applications, see our FR-8/FT-8 1U multi-channel rack mount solutions. For a complete transmit/receive pair see the companion to the FT-1, the FR-1 Fiber to BNC Receiver unit.

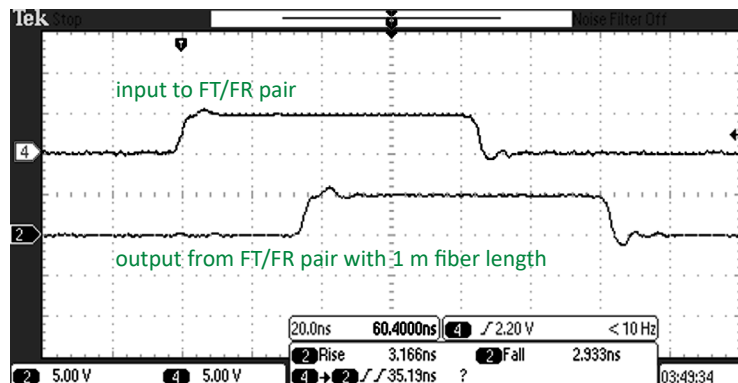
- Low cost, single channel unit allows for integration with any BNC 5 V TTL output needing conversion to fiber
- Small form factor with a robust metal enclosure
- Uses robust inexpensive 2.2 mm jacketed plastic fiber with no end polishing or connector required

## specifications

- Rise/fall time < 5 ns
- Jitter < 2 ns
- In/out delay ~35 ns with FT-1/FR-1 pair at 1 m fiber length
- 4 ns to DC pulse lengths
- Optional 50  $\Omega$  termination
- 1 1/8" h x 3 1/8" w x 1 1/8" d (max dims. includes connectors)

Included in the box:

FT-1, 120 VAC to 5 VDC wall transformer, Quick Start Guide



Plot FT/FR pair rise/fall, delay into 50  $\Omega$



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