



# 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

## 8 Channel Multifunction Receiver (FR-8)



The FR-8 8 Channel Multifunction Receiver interface unit from Eagle Harbor Technologies Inc. offers flexible and affordable fiber interfacing for typical laboratory control needs. Robust and reliable, the FR-8 is ideal for fast noise-immune triggering of BNC 50 Ω TTL devices in control room or experimental space applications. In addition, the FR-8 includes BNC input pass-through, relays (configurable as NO or NC) for each channel accessed via back panel screw-terminals, as well as master fiber/BNC input to control all 8 channels simultaneously. Brilliant front panel LEDs indicate channel activity and power status. Indispensable for the complexities of the laboratory, where flexibility and extensibility can be easily achieved by ganging units together. For more portable installation applications, see the FT-1/FR-1 single channel units. For a complete transmit/receive solution see the companion to the FR-8, the FT-8 BNC to Fiber Transmitter featuring 68-pin National Instruments compatible input.

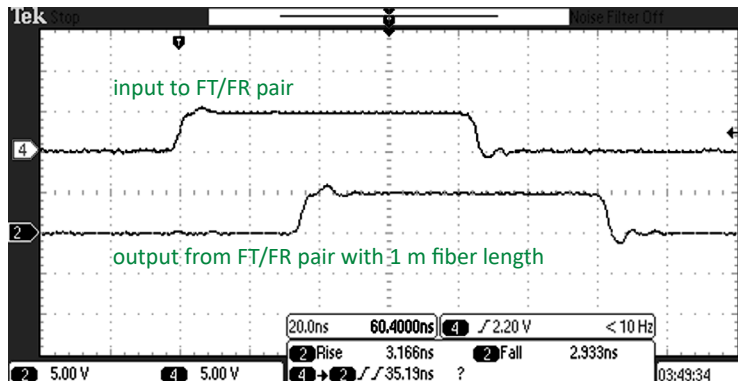
- 8 channel unit allows for fiber to BNC multifunction interfacing in a 1 U rack unit
- Relays for each channel accessed via back panel screw terminals
- Uses robust inexpensive 2.2 mm jacketed plastic fiber with no end polishing or connector required

## specifications

- Rise/fall time < 5 ns
- Jitter < 2 ns
- In/out delay ~35 ns with FT-8/FR-8 pair with 1 m fiber length
- 16A 250 VAC (max) relay per channel with NO or NC operation
- 4 ns to DC pulse lengths

Included in the box:

- FR-8 19" 1U rack unit, 120V
- Equipment Cord, Quick Start Guide



Plot FT/FR pair rise/fall, delay into 50Ω



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