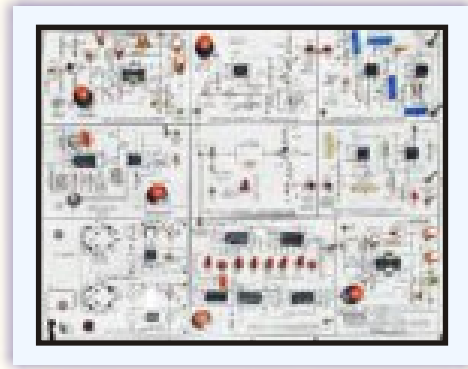




# FIBER LINK A LOW COST FIBER OPTIC TRAINER

MODEL : FOT-LINK-A

This trainer has been designed with a view to provide practical and experimental knowledge of a general circuit of Fiber Optic.



## SPECIFICATIONS

### a) Fiber Optic Trainer

950 nm infrared (SHF 450 V)

660 nm Red visible (SHF 756V)

#### Receivers:

Pin photo diode with responsivity of 0.3 micro Amp/microwatt (SHF250V)

Photo detector with TTL output (SHF 551V) Max. 5 MHz data rate

#### Modulation Techniques:

Direct amplitude modulation/demodulation

Pulse position modulation/demodulation

Pulse width modulation/demodulation

#### Driver circuit:

Analog and digital configuration for 950 nm and 660 nm LED

Analog Bandwidth: 300 KHz

Digital Bandwidth: 2 MHz

Filter circuit: 4th order butter worth filter - Cut off frequency 3.4 KHz

#### On board function generator:

1 KHz variable amplitude sine wave

1 KHz TTL square wave

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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**Dealer:-**

**Voice communication:**

Fiber Optic voice link using dynamic microphone and speaker  
PC-to-PC communication  
Using 950 nm and 660 nm LED through RS 232 standard

**RS232 port type:**

9-pin D type connector  
Baud Rate: Max. 9600 Baud  
Type of cable: Plastic optical cable, step Index multimode  
Core refractive index: 1.492 Clad refractive index: 1.406  
NA: 0.5  
Accpt. Angle: 60 Degrees  
Fiber Dia.: 1000µm  
Outer dia: 2.2 mm  
Length: 1 m, 3.3m  
Power supply: +/- 5, +/- 12

**B) Fiber optic LED power source**

Fiber type: single & multimode  
Wavelength: 850 & 1300 nm  
Power: 15 dbm  
Power selection: variable output using potentiometer  
Connection: St type  
Power supply: +5 V, + 9 V DC, 200 mA min.

**c) Laser Fiber Optic trainer**

Transmission module: 60nm  
Mode: ACC & APC  
Receiver: Phototransistor, pin diode  
Power supply: 6V DC

**d) Fiber optic power meter**

Fiber type: single & multimode  
Readout: dbm on LCD display  
Sensor type: germanium photo detector  
Calibration wavelength: 850 nm  
Input wavelength: 850 & 1300 nm  
Calibrated accuracy: +/- 6%, 0.25db  
Power supply: 9 Volts

**e) PMMA patch cord (SMA) 10m.****f) Glass fiber cable MM 62.5/125-20 m****g) Sample fiber kit****H) Multicolored optical spectrum wall chart**