

**Scope of learning :**

- Setting up Fiber Optic Analog Link Setting up Fiber Optic Digital Link
- Study of Intensity Modulation Technique using Analog Input Signal
- Study of Intensity Modulation Technique using Digital Input Signal
- Setting up of Propagation Loss in Fiber Optic Study of Bending Loss.
- Measurement of Optical Power using Optical Power Meter
- Measurement of Propagation loss using Optical Power Meter
- Measurement of Numerical Aperture Characteristics of F-O Converter using OPM
- Characteristics of Fiber Optic communication Link
- Setting up of Fiber Voice Link using Intensity Mode
- Study of PC to PC Communication using Fiber Optics Digital Link
- Amplitude Modulation and Demodulation
- Frequency Modulation and Demodulation
- PWM Modulation and Demodulation

**Technical specifications :**

- Two Transmitter Fiber Optics LED having peak wavelength of emission 660nm & 950nm
- Two Receiver Fiber Optic photo detector
- On-board Analog & Digital Drivers.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- On-board AC Amplifiers.
- Analog Band Width 350 Khz
- Digital Band Width 2.5 Khz
- 4 order Butter worth 3.4KHz Low Pass Filter
- On-board 10Hz. To 10 KHz sine wave (amplitude adjustable), square wave Selectable.
- FO voice link using microphone & speaker
- RS-232C PC to PC Serial Link using 9 pin D-Connector.
- Fiber Optics Cable Connector type Standard SMA.
- Duly polished fiber at both end for Numerical Aperture Measurement.
- Step indexed multimode PMMA plastic cable.
- Numerical aperture Better than 0.5.
- Acceptance Angle Better than 60
- Fiber Diameter 1000 microns.
- Outer Diameter 2.2mm.
- Fiber Length 1m and 3m
- In-Built Power Supply +5V/1.5A, ±12V/250mA.

**Salient Features :**

- 660nm and 950nm Transmitter.
- Two Nos. Of Photo Detector.
- On-board Sine & Square wave generator:10Hz-10KHz
- On-board 4th Order Low Pass Filer. 2 Nos
- In-Built DC Regulated Power Supply
- Front Panel Built With High Class Insulated Printed Circuit Board Sheet With Well Printed Circuits And Symbols
- Fuse For Short Circuit Protection
- Instruction Manual
- Connections are brought out through 2mm Brass Sockets.
- Patch Cords 2mm.

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- The trainer is housed in ABS Plastic cabinet.
- Size of the trainer set 12"x10"

**Optional accessories :**

- CRO
- OPTICAL POWER METER
- Fiber Length 5m and 10m

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