



FIBER OPTIC TELECOMMUNICATIONS TRAINING KIT

Features

- ✓ Comprehensive teaching & training manual
- ✓ Rack mounted components
- ✓ Eye safe connectors
- ✓ Competitive pricing

The educational Telecommunication kit series includes all the optic and electronic equipment necessary in order to explore the theoretical and experimental basis of the fibre optic data transmission. The full product line is composed of :

- a source module
- a fiber optic module
- a passive components module
- a detector module

COMPONENTS INCLUDED

1 SOURCE MODULE composed of :

- 2 Fabry-Perot laser diodes @ 1310 and 1550 nm,
- 2 1 mW, CW, pulsed (20 ns), numerical modulation (BW>20 MHz)
- 2 Patchcords E2000/PC Diamond connectors

1 DETECTOR MODULE composed of :

- 2 InGaAs detectors, BW>100 MHz
- 2 1310/1550 nm multiplexer
- 2 Optical attenuators
- 4 Patchcords E2000/PC Diamond connectors

1 FIBER OPTIC MODULE composed of :

- 3 Single mode optical fibers with different lengths
- 4 Patchcords E2000/PC Diamond connectors

1 PASSIVE COMPONENTS MODULE composed of:

- 2 Single mode fiber couplers
- 2 Optical isolators
- 4 Patchcords E2000/PC Diamond connectors

PRACTICAL EXPERIMENTS

Laser diodes and detectors characterization (output power, cut-off frequencies, signal level, signal versus noise ratio)

Fiber attenuation, measurement of connector losses

Estimation of chromatic dispersion with a circulation ring

Two wavelengths multiplexing/ demultiplexing

Couplers and isolators characterization (coupling ratio, diaphony, isolation ratio, insertion losses...)

Simplified approach of reflectometry : fiber length measurement

Band pass measurement

Etc...