



WDM & OTDR setup consists of 28556, 28557, 28558 and 28559. Student can learn Wave length division multiplexers (WDM), OTDR building blocks & construction and measure chromatic dispersion in an optical fiber. Fiber Optic Passive Component Module (28557) consist of industrial grade passive components like Couplers, Isolators, Attenuators and WDM. Wave length division multiplexers (WDM) are the passive devices that combines light signals with different wave length coming from different fiber, on to single fiber and Single Mode Fiber Optic Cable Module (28558) one can study insight into the building blocks & construction of an OTDR. Chromatic Dispersion Module (28559) is specially designed to measure chromatic dispersion in an optical fiber. A special purpose fiber is provided for laboratory use to make the study more precise and easy.

### Experiments

- I-V characteristics of LASER
- P-I characteristics of LASER
- Digital data transmission
- Analog signal transmission
- PC to PC Communication (full duplex)
- To measure characteristics of passive components such as attenuator, isolator, coupler, WDM.
  - ♦ To measure the attenuation in fiber optic attenuator
  - ♦ To measure insertion loss of fiber optic isolator
  - ♦ To measure isolation rate of fiber optic isolator
  - ♦ To measure insertion losses of fiber optic coupler
  - ♦ To measure coupling coefficient in fiber optic coupler
  - ♦ To measure the insertion losses and coupling coefficient in fiber optic multiplexer
- Wavelength division multiplexing and de-multiplexing of analog /digital signals over 1310nm and 1550nm wavelengths
- Study of building blocks of OTDR
- Study of chromatic dispersion

**Note: For Technical specification please refer product catalog of each module.**

Note: Specifications are subject to change.