This trainer has been designed with a view to provide practical and experimental knowledge of a WDM.

**SPECIFICATIONS**

1. **UNIT**
   - 1. Main unit comprising of Multiplexer & De-multiplexer
   - 2. Inputs (Light sources) 1550 & 1310nm (2 Nos.)
   - 3. Output (Optical power meters) (2 Nos.)

2. **Features**
   - Demonstrates combination and separation of two wavelengths
   - High channel isolation
   - Low insertion loss
   - Bi-directional

3. **Technical Specifications**
   - Operating wavelengths: 1310 & 1550 nm
   - Coupling Ratio: 50/50
   - Port: 1 x 2 and 2 x 1
   - Connector type: FC
   - Length of single fiber: 1M, 3M
   - Light Source: 2 Nos.
   - Power Meter: 2 Nos.

4. **Experiments**
   - Testing the isolation of ports (with Light Source & Power Meter)
   - Testing of coupling ratio (With Light source & Power Meter)
   - Measurement of output power (With Light source & Power Meter)
   - Demonstration of WDM
   - Bi-directional demonstration (Both)

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:
5. LASER LIGHT SOURCE
   Central Wavelengths : 1310nm / 1550nm
   Source Type : Laser Diode
   Power Output : -3dBm
   Power Output uncertainty : ± 0.5dB
   Connector : FC
   Modulation Modes : CW/2000Hz/1000Hz/270Hz
   Power Supply : Battery-DC9V Alkaline or equivalent, Adapter - output : DC9V 300mA

6. OPTICAL POWER METER
   Wave lengths : 850nm, 1310nm, 1550nm
   Measuring range : +3 dBm – -50dBm
   Accuracy : ± 0.4 dBm
   Connector : FC
   Display : 4 digits dBm, Low Battery
   Power Supply : Battery-DC9V Alkaline or equivalent