

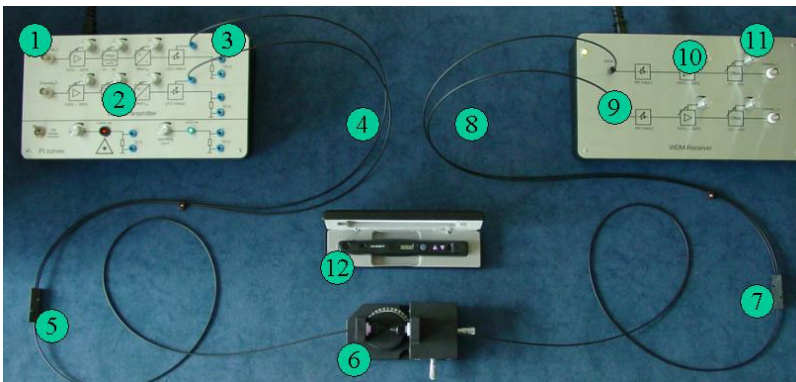
OPTOTEACH POF-WDM-System

General Description

OPTOTEACH is the first lab system that combines polymeric fibres with WDM technology and is specifically designed to cover a multitude of lab experiments in the field of optical communication technology.

Fields of Application

- ▶ PI Curve Measurement
- ▶ Noise Sensitivity Tests
- ▶ Video Signal Transmission
- ▶ WDM Experiments
- ▶ Signal Quality Tests
- ▶ EM Field Influence Experiments



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|-----------------|--------------------|------------------|-------------------------|
| 1 BNC Input | 2 Potentiometer | 3 Optical Output | 4 Polymeric Fibre (POF) |
| 5 Multiplexer | 6 Micrometer Stage | 7 Demultiplexer | 8 Polymeric Fibre (POF) |
| 9 Optical Input | 10 Potentiometer | 11 BNC Output | 12 Powermeter |

WDM Transmission Module	2 Transmitters	1 LED 660 nm	1 LED 470 nm	1 LED cw 530 nm	1 Laser cw 655nm
WDM Receiver Module	2 Receivers	2 Filtersets 660 nm / 470 nm		2 PD Amplifiers	

System Layout

OPTOTEACH systems consist of two video transmitters, one LED and one laser in cw mode and two receivers. The system enables students to transmit two analogous FBAS video signals or corresponding test signals with a maximum bandwidth of 10 MHz. Both transmitters operate within the visible wavelength, which provides students with an opportunity to visually experience the WDM effect firsthand. The two signals are joined via a conventional Y-coupler, the separation is effected by a splitter in combination with colour filters. Signals can be transmitted over various fibre lengths (up to 50m). For experimental purposes, the fibre can be interrupted by a micrometer stage, enabling the students to analyse coupling losses as well as lateral and longitudinal misalignments.

Price information available on request

For more information about our products and services please visit us online: <http://www.harzoptics.de>

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