

LEOK-21

Optical Fiber Information and Communication Experiment Kit



- *Covering 10 experiments*
- *Flexible solution for different level of students*
- *Extensive literature support*
- *Conservative price*

The optical fiber has increased our ability to transmit more information more quickly over longer distances, and as the importance of the fiber rises, numerous colleges and universities world-wide are introducing courses in optoelectronics and optical communications.

We design this kit to satisfy the increasing demand from the support of laboratory based experiments. This kit provides you essential basic knowledge and skills. Upon acquiring the laboratory techniques which can be used for characterization of important fiber parameters through practical hands on experience, you may better appreciate the fascinating characteristics of fiber optics.

This Fiber Optic Experimental kit is a sister kit to LEOK-20, which has been revised and rewritten to include some new experiment. If you are looking for something more advanced, to continuously extend your learning in fiber optics, this kit supplies more equipment and offers more experiments required to measure parameters, such as optical fiber beam splitter, attenuator and isolator.



Experiment Examples

- 1) Experiment of fundamental knowledge of optical fiber optics
- 2) Experiment of coupling method between optical fiber and light source
- 3) Multimode fiber numerical aperture (NA) measurement
- 4) Optical fiber transmission loss property and measurement
- 5) M-Z optical fiber interference experiment
- 6) Optical fiber thermal sensing principle
- 7) Optical fiber pressure sensing principle
- 8) Optical fiber beam splitter parameter measurement
- 9) Adjustable optical attenuator and parameter measurement
- 10) Fiber optic isolator and parameter measurement



Parts List

Description	Part No./Specs	Qty
He-Ne Laser	1.5mw	1
Hand held Light Source	1310nm	1
Light Power Meter	SGN-1	1
Handheld Light Power Meter		1
Fiber Interferometer demo		
Optical separator	633nm	1
Temperature Controller		1
Stress Controller		1
5-axis adjusting stage		1
Beam Expander	f = 4.5	1
Fiber Clip		2
Fiber Support		1
White Screen	With cross	1
Laser Holder	LEPO-44	1
Light Target		1
Power Cord		1
Single Mode Beam Splitter	1310nm	1
Optical Isolator	1310nm	1
Variable Optical Attenuator		1
Single Mode Fiber	633nm	2m
Single Mode Fiber	633nm (Fc/Pc)	2m
Multi-mode Fiber	633nm	2m
Fiber	1 km	1
Fiber Patch	1m/3m	4/1
Fiber Stripper		1
Fiber Cleave		1
Flange		5
Tape measure	2 m	1