

Portable Fibre Optics Bench Top Laboratory for Education and Business

“The perfect Lab kit for Fibre Optic experiments”

Up to 40 Fibre Optic Experiments in one Unique Portable Bench Top Laboratory



Purchase from as little as
£175/€195 per month

‘Light Runner’, a fibre optic communication, bench top laboratory with WDM. This advanced silica fibre based optic training kit is targeted at engineering and science students and business Laboratories.

Light Runner has 16 experiments in fibre optics, which are designed to provide exposure ranging from basic fibre optics to state-of-the-art technology in fourth generation fibre optic communication. However, up to 40 experiments can be performed using the components that come with the Light Runner.

“Light Runner exposes the user to advanced technologies like DFA, WDM, OTDR, eye pattern analysis, OADM and bit error rate, which enables the user to make quantitative measurements,” says Dr. Simon Grattan, Managing Director of Sengenya

Light Runner is a standalone solution for fibre optic communication labs and does not require any external instruments/devices/components such as oscilloscopes, function generators, or power meters.



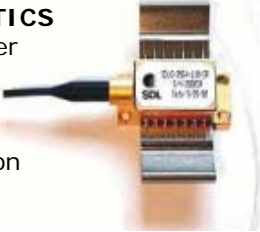
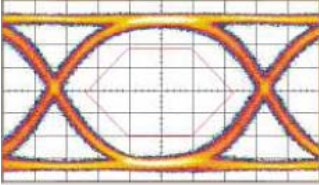
Distributed in Europe by :
Sengenya Ltd,
1 Chlorine Gardens,
Belfast,
BT9 5DJ
N. Ireland

Tel: +44 28 9066 5441
Mob: +44 75 1585 1918

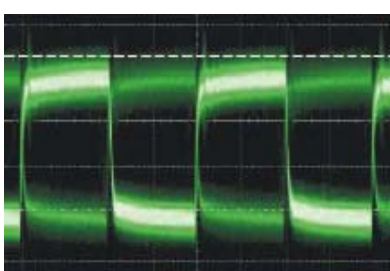
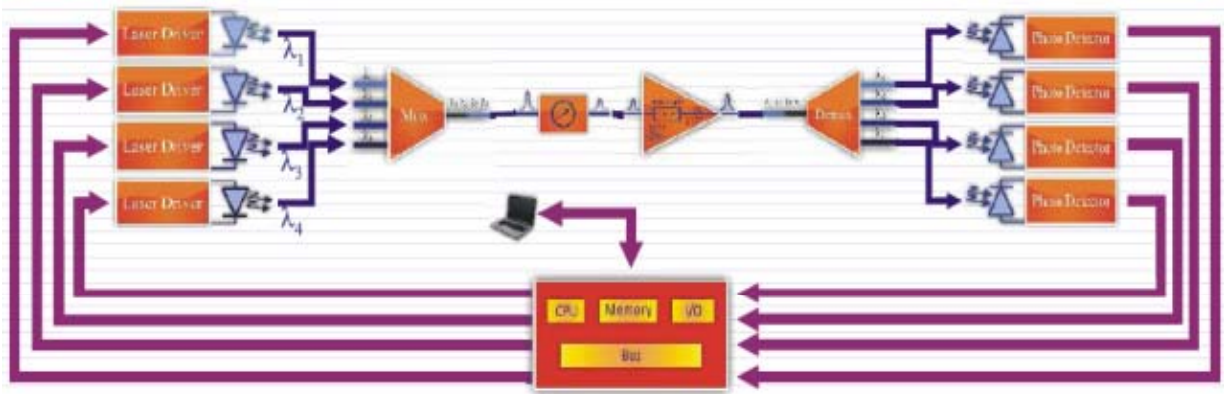
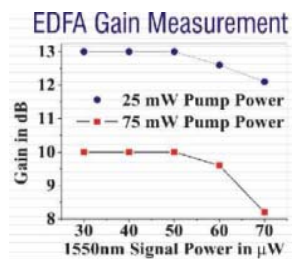
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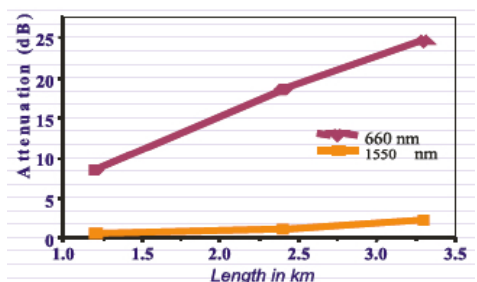
Sample Experiments

<p>FIBRE PARAMETERS</p> <ul style="list-style-type: none"> •Attenuation Effects in Fibre •Dispersion Effects in Fibre 	<p>OPTICAL COMMUNICATION KIT</p> <ul style="list-style-type: none"> •Analogue and Digital Link •Time Domain Multiplexing •WDM Link •Critical Amplification in WDM •Optical Add Drop 
<p>COMPONENT CHARACTERISTICS</p> <ul style="list-style-type: none"> •Wavelength Division Multiplexer •FBG and Optical Circulator •Erbium Doped Fibre Amplifier •Diode Laser Characterisation •PIN Photodiode Characterisation 	<p>TESTING & ANALYSIS</p> <ul style="list-style-type: none"> •OTDR Measurements •BER and Eye Pattern •Power Budgeting •Rise Time Budgeting 

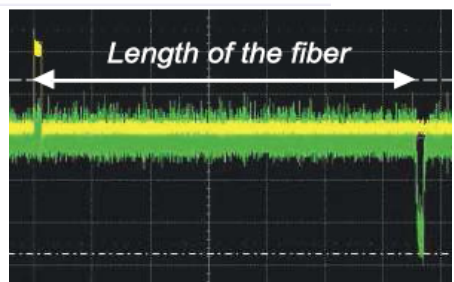
Optical Amplification in WDM
Setting up the WDM link with EDFA and comparing the overall loss or gain in the system with and without EDFA



BER, Eye pattern Measurement



Attenuation Measurement



ODTR Measurement

The Light Runner is available in a Standard and Premium Kit.

Please consult the table below for the version most appropriate for your requirements

Experiments	Light Runner - Standard	Light Runner - Premium
FIBER PARAMETERS		
Dispersion Effects in Fiber	✓	✓
Attenuation Effects in Fiber	✓	✓
COMPONENT CHARACTERISTICS		
Wavelength Division Multiplexer	×	✓
FBG and Optical Circulator	×	✓
Erbium Doped Fiber Amplifier	×	✓
Diode Laser Characterization	✓	✓
Pin Photodiode Characterization	✓	✓
OPTICAL COMMUNICATION SYSTEM		
Analog and Digital Link	✓	✓
Time Domain Multiplexing	✓	✓
WDM link	×	✓
Optical Amplification in WDM	×	✓
Optical add Drop	×	✓
TESTING AND ANALYSIS		
OTDR Measurements	✓	✓
BER and Eye Pattern	✓	✓
Power Budgeting	✓	✓
Rise Time Budgeting	✓	✓



Need a quote? For pricing/ financing details or more information on either the Standard or Premium Light Runner Kit, please contact us at sales@sengenia.com quoting "lightrunner" or by calling us on +44 2890 665441 or mobile +44 75 1585 1918

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- Available in a Standard or Premium Kit

- Free delivery in the UK and Ireland

- Educational Discount Available



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