

Lightvision

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The Industry's First Handheld Wavelength / Power Meter

User friendly
Accurate
Convenient
Cost-effective

New



Lightwaves2020 develops and manufactures industry's FIRST Handheld Wavelength / Power Meter (HWPM) which measures the wavelength and power of an optical signal. The instrument measures wavelengths ranging from 1260 to 1620 nm and measures the wavelengths of fiber lasers. It



is a cost-effective, accurate and easy-to-use handheld tester. The HWPM comes with single-mode and multimode versions. It is also ideal for FTTx compliance test, field installation and optical link test. HWPM was designed to operate in the rough fiber cable installation and maintenance environments.

For more information, please contact sales@lightwaves2020.com



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Multi-Function Optical Test Platform (MOTP)

- Only one automatic calibration needed
- All in one test platform
- Significant cost savings
- Time saving
- Scalable : up to 50 modules
- Data storage and management
- Interfaces: USB · Ethernet · RS232



For a given optical components test (WDM, Switches, EDFA...), MOTP saves tens of thousands of dollars when comparing to the conventional manufacturing test set-up. MOTP saves significant time in test set-up and calibration. MOTP increases the efficiency and improves quality control of the test process because there are no messy optical cables and connectors hanging outside the chassis. MOTP totally eliminates errors that are caused by bad cables or scratched connectors.

Lightwaves2020's multi-function optical test platform (MOTP) is a flexible test platform with multiple built-in optical test and measurement functions. The platform allows users to quickly and easily set up their test and measurement systems for manufacturing, prototyping, lab and R&D characterizations.

In addition to its internal built-in control functions, the MOTP users can easily install add-on standard or custom optical modules to the platform. The built-in functions allow the users to control the tunable laser source (or an ASE source), VOA, polarization controller and power monitor functions. The MOTP standard add-on modules include VOA module, polarization control module, optical switch module, power measurement module and wavelength monitor. The MOTP platform is capable to support more than 50 pre-defined or user defined add-on optical modules. The platform also comes with Lightwaves2020's advanced control and monitoring GUI software as well.

**Significant
Cost Saving &
Time Saving
Improving
Efficiency &
Process Control**

**Conventional
Test Set-Up**



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**Editor
Art Designer**

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High Power Tunable Laser Source

- High output power: > 16dBm
- Wide tunable spectral range:
 - C-band: 1525nm to 1565nm
 - L-band: 1565nm to 1610nm
 - S-band: 1485nm to 1525nm
- High side mode suppression ratio (SMSR): > 65dB
- Narrow spectral width: < 0.05nm @ 3dB down
- Low-Coherent
- Depolarized: PDL<0.05dB
- Low cost
- High time stability: ± 0.01 dB/hr
- High tuning resolution



4 Watt High Power Optical 1x2 Switch

- Optical input power : 4 watt
- Switch type : 1x2 (latching or non-latching)
- Compact size : 25 x 15 x 12mm
- Best for hi-power applications



LC Based Polarization Controller

- No moving part
- Wide operating wavelength range (1525 to 1615 nm)
- High extinction ratio (30 dB min., 3-cell or 4-cell)
- Low insertion loss (1.2 dB max, 3-cell. 1.5 dB max, 4-cell)
- Low PMD (0.1 ps. max)
- Low power consumption (3 mW for 3 cell., 4 mW for 4-cell type)



Unidirectional Miniature Optical Power Monitor (UOPM)

- Unidirectional monitoring
- Compact Coaxial package (20.5 mm length)
- Excellent responsivity linearity (5% max)
- Low insertion loss (0.3 dB max for C or L band, 0.4 dB max for C+L)
- Cost effective
- High Isolation (25 dB min.)



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News from Coating

As a leading manufacturer of high-end optical thin film filters, Lightwaves2020 continues supplying the best performance products to the industry. In addition to its innovative fluorescence filters and laser line filters for biomedical imaging applications, Lightwaves2020 offers Raman filters for analytical spectroscopic applications.

Features:

- Using high purity optical substrates with low Raman effect (data available upon request);
- High OD laser-line blocking for maximum laser rejection (> 6 OD);
- Steep slopes to enable measuring the small Raman shifts (6 OD slope: BPF: <4nm; LPF < 6nm; 45deg dichroic: < 8nm);
- High transmittance in the pass band (> 90%);
- High laser damage threshold (> 5 J/cm² @ 532nm, 30ns pulse, 200KHz);
- Superior environmental reliability

Other Products:

- Fluorescence filters
- Laser Line Filters
- BPF with wide wavelength and high OD blocking
- High power laser mirrors, BPF and dichoric beam splitters
- Telecom filters: DWDM, 4skip0, CWDM, GFF, ...
- Astronomy filters
- Customer filters



We love to hear from you!
Please kindly email your feedback to sales@lightwaves2020.com

About Lightwaves2020 Inc.

Founded in 1997 with its headquarter in Milpitas, CA, US., Lightwaves2020 Inc. designs, manufactures, markets advanced optical components and test & measurement instruments for the commercial and defense industries.



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Innovative !

Creative !

Cutting-edge !

Lightwaves2020 Inc. was granted with 4 additional new US patents in 2006...

US Patent # : 7058 257. B2Patent

Date : June 6, 2006

Miniature WDM Add/Drop Multiplexer & Method of Manufacture

US Patent # : 7,044-660. B2Patent

Date : May 16, 2006

EDFA And Integrate Circuit Module And Components

US Patent # : 7,305,501. B2Patent

Date : April 25, 2006

Cholesterol Liquid Crystal Cell Devices and Systems

US Patent # : 6,987,611. B2Patent

Date : Jan 17, 2006

Miniature Circulator Devices And Methods Making

