

Optical Component Test

Agilent Lightwave Mainframes



Flexibility & Scalability

- Faster reaction times in alignment and adjustment applications
- Significantly shorter measurement and data transfer times
- Faster measurement data transfer in remote applications
- Reduced test times and cost of test
- Elimination of associated costs and time-consuming setup



Agilent Technologies



Optical Component Test

Agilent 8163B Lightwave Multimeter

Agilent 8164B Lightwave Measurement System

Agilent 8166B Lightwave Multichannel System

Flexible

A free combination of the Agilent modules allows to easily generate different measurement setups.

The system can be controlled either directly for benchtop, or with an external PC for remote applications.

Internal applications (Loss over Wavelength, Return Loss, Logging, Stability) can be used directly.

Fast

The Agilent Lightwave mainframes are optimized for test speed and therefore minimize test cost.

Scalable

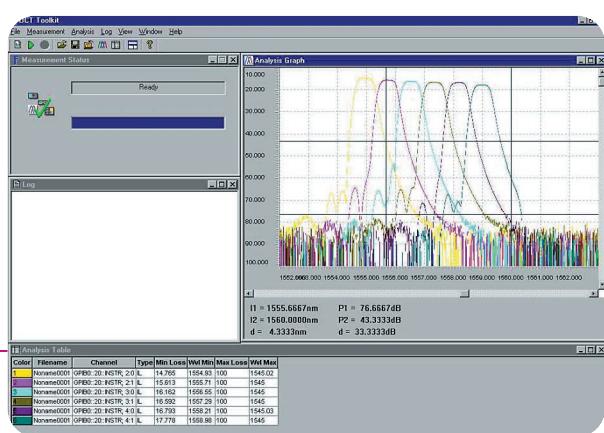
High and low channel applications can be addressed by the easy extendability of the mainframes. "The right form factor" for each setup!

Ergonomic

Color, high-contrast, brightness, low reflection display and a wide viewing angle is key for benchtop applications.

Efficient

On top of the plug&play drivers the Agilent Photonic Foundation Library provides a variety of application functions that increase the measurement performance and reduce test implementation cost.



Agilent Photonic Foundation Library



The Agilent Optical Component Test Platform
for flexible and scalable test solutions with
small footprint



Optical Component Test

The Agilent Flexible Test Platforms help Reduce Engineering Effort with a Modular Concept.

Agilent 8163B, 8164B and 8166B mainframes address different measurement needs for passive and active lightwave components with high port flexibility. The Agilent 8163B mainframe features dedicated benchtop applications with direct user interactions.

The Agilent 8164B is optimized for testing devices such as multiplexers and demultiplexers, fiber bragg gratings, or thin film filters. A test set up with the Agilent 8166B is ideal for high port device and optical amplifier test. Internal applications (Loss over Wavelength, Return Loss, Logging, Stability) can be used directly.



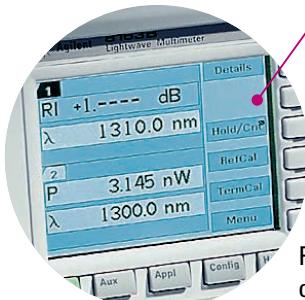
Agilent 8164B Lightwave Measurement System



Agilent 8163B Lightwave Multimeter



Agilent 8166B Lightwave Multichannel System



Fast and easy-to-read measurement values on the high-resolution color display



Tunable Laser Modules
(only for 8164B)



Compact Tunable Laser Modules



Distributed Feedback (DFB)
Laser Modules



Fabry Perot
Laser Modules



Attenuator
Modules



Return Loss
Modules



Power Sensor
Modules



Optical Heads



Test Innovations That Improve Your Bottom Line

Passive Component Test												Optical Amplifier Test		Bit Error Ratio Test						
Optical Component Test		Mux/DeMux/V-Mux	TFF Test	FBG Filter Test	Connector Test	Switch Test	TFF Align-/Adjustment	Fiber to AWG Alignment/AWG Chip Test	Coupler/Splitter/Combiner	Isolator/Circulator	Variable Optical Attenuator	Gain Flattening Filter	Dispersion Compensators	Interleaver	EDFA	Raman Amplifiers	SOA	Rx/Tx	Line Card	System Test
Tunable Laser 81600B, 81480B, 81640B, 81680B	
Tunable Laser 81672B, 81482B, 81642B, 81682B,	
Compact Tunable Laser 81649A, 81689A/B	
Distributed Feedback (DFB) Laser 81662A, 81663A	
Fabry-Perot Laser	
Power Meter 8163xB	
Optical Heads	
Return Loss Modules 81610A, 81611A, 81612A 81613A, 81614A	
Attenuator 81560A/61A, 66A, 67A 81570A/71A/73A/76A/77A	
Switches 8159x	
Polarization Controller 8169A	
Polarization Controller 11896A	
Digital Communications Analyzer (DCA)	
Bit Error Ratio Tester (BERT)	
SONET/SDH Tester	
Optical Spectrum Analyzer (OSA)	
Mainframes 8163A/B 8164A/B 8166A/B	
All Parameter Test	
Photonic Foundation Library	

By internet, phone, or fax, get assistance with all your test & measurement needs

For further information, please visit www.agilent.com/comms/comp-test

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Product specifications and descriptions in this document subject to change without notice.

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