Agilent 8163A Lightwave Multimeter Agilent 8164A Lightwave Measurement System Agilent 8166A Lightwave Multichannel System Technical Specifications





## **Agilent Technologies**

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## Agilent 8163A Mainframe

The Agilent lightwave multimeter system includes the mainframe and a variety of plug-in modules, suited for set-ups requiring:

- single or dual channel power meters
- single or dual wavelength fixed or tunable sources
- loss test sets

## **Specifications**

Display	Graphical display 190 x 300 points visible, monochrome
Display resolution	0.0001dB/dBm, 0.01pW to 10pW (depending on power range) ,
	up to 6 1/2 digits (user definable)
Compatibility	The Agilent 8163A mainframe supports all modules from the 8153A and 8163A
	Lightwave Multimeter series.
Data acquisition	
Memory	4000 measurement results / channel (remote 12000)
Selectable data averaging time	depending on sensor module
Selectable data total acquisition time	1s to 23:59h
Trigger	True synchronous on all channels.
Environmental	
Storage temperature	-40°C to +70°C
Operating temperature	0°C to +45°C
Humidity	<95% rHfrom 0°C to 45°C
	The products are designed for pollution degree 2
	The maximum operation altitude is 2000m
Power	AC 100 – 240 V $\pm$ 10%, 50/60Hz $\pm$ 5%, 120VA max. *
Dimensions (Height x Width x Length)	88mm x 213mm x 380mm (3.5" x 8.4" x 15")
Weight	net 4.200kg (9.3lbs), shipping 6.5kg (14.5lbs)
GPIB capability	All modes and parameters accessible via GP-IB interface
GPIB interface function codes <sup>111</sup>	SCPI Standard
Interfaces	Parallel port (Centronics)
	Serial port (RS232)
Number of modules	2 Modules
Ordering information	
Agilent 8163A Lightwave Multimeter	
Option 908 Rack mount kit	

 $^{\scriptscriptstyle (1)}$  For code compatibility to 8153 series please refer to Programming Manual P/N 08164-91016

 $^{*}$  The products comply with overvoltage category ||

## Agilent 8164A Mainframe

The Agilent 8164A Lightwave Measurement System supports a range of high-performance tunable lasre modules, as well as all of the fixed source and sensor modules of the Agilent 8153A and Agilent 8163A Lightwave Multimeter series

## **Specifications**

Display	600 x 400 points visible
Display Resolution	
Compatibility 111	The Agilent 8164A mainframe supports all modules from the 8153A and 8163A Lightwave
	Multimeter series.
Trigger	True synchronous on all channels.
Environmental	
Storage temperature	-40°C to +70°C
Operating temperature	10°C to +35°C
Humidity	< 80% rHfrom 10°C to 35°C
	The products are designed for pollution degree 2
	The maximum operation altitude is 2000m
Power	AC 100 – 240 V ±10%, 50/60HZ , 280VA max.
Dimensions (Height x Width x Length)	145 mm x 426 mm x 545 mm (5.8" x 16.9" x 21.6")
Weight	net 20kg, shipping 23kg
GPIB capability	All modes and parameters accessible via GP-IB interface
GPIB interface function codes	SCPI Standard
Interfaces	Parallel Port (Centronics)
Number of Modules	5 Modules
Ordering Information	
Agilent 8164A Lightwave Multimeter	
Option 908 Rack mount kit	

<sup>111</sup> Agilent 8163A Series modules are NOT compatible with HP 8153A Lightwave Multimeter.

 $^{\scriptscriptstyle [2]}$  For code compatibility to 8153 series please refer to Programming Manual P/N 08164-91016

### Agilent 8166A Mainframe

The Agilent 8166A Lightwave Multichannel System can be easily integrated into test environments by using plug and play drivers over GPIB, or by using the configurable hardware input and output trigger ports.

All modules of the Agilent 8163A Lightwave Multimeter family can be used in any combination in the Multichannel System.

## **Specifications**

Display	Graphical display 190 x 300 points visible, monochrome
Display Resolution	0.0001dB/dBm, 0.01pW to 10pW (depending on power range) ,
	up to 6 1/2 digits (user definable)
Compatibility <sup>111</sup>	The Agilent 8166A mainframe supports all modules from the 8163A Lightwave Multimeter series.
Trigger	True synchronous on all channels.
Environmental	
Storage temperature	-40°C to +70°C
Operating temperature	0°C to +45°C
Humidity	<95% rH.from 0°C to 45°C
	The products are designed for pollution degree 2
	The maximum operation altitude is 2000m
Power	AC 100 – 240 V ± 10%, 50/60HZ ±5%, 450VA max.*
Dimensions (Height x Width x Length)	240 mm x 430 mm x 580 mm (9.5" x 17" x 23")
Weight	net 23kg, shipping 45kg
GPIB capability	All modes and parameters accessible via GP-IB interface
GPIB interface function codes <sup>[2]</sup>	SCPI Standard
Interfaces	Parallel Port (Centronics)
	Serial port (RS232)
Number of Modules	17 Modules
Ordering Information	
Agilent 8166A Lightwave Multimeter	
Option 908 Rack mount kit	

<sup>111</sup> Modules (815xxx) designed for the Agilent 8153A Lightwave Multimeter are NOT compatible with the 8166A Lightwave Multichannel System.

<sup>121</sup> For code compatibilityto 8153A series please refer to Programming Manual P/N 08164-91016

 $^{st}$  The products comply with overvoltage category II

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Agilent 8163A Multimeter Agilent 8164A Lightwave Measurement System Agilent 8166A Multichannel System Configuration Guide p/n 5988-1571EN



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