

# Optical Return Loss / Power Meter

## AI9508A/B/C

1310/1490/1550/1625nm(Single-mode) & 850/1300nm(Multi-mode) & 650nm (Visible)



- Intelligent microprocessor-controlled equipment
- Meet the optical active devices and passive components of the insert and return loss testing
- Built-in multiple-wavelength light source of the test: 650/850/1300/1310/1490/1550/1625nm
- Auto range, auto-zero, the average functional
- Users can carry out calibration of optical return loss test and store the calibration parameters
- Return Loss of 75dB dynamic range test
- Optical power dynamic range test (-80dBm ~ +10 dBm) (United States imported a large area detector)
- GP-IB interface (option) to meet the requirements of automatic test

AI9508A/B/C Series Optical Return Loss Tester is an advanced instrument which has developed with the latest microprocessor intelligent optical return loss tester, with the best price-performance ratio, is used for optical active testing devices and optical passive device, equipment, assembly inspection, production of the best quality measurement tool for optical fiber communication systems research, development and production, as well as the construction, maintenance and other departments must have the basic test instruments.

AI9508A/B/C Series Optical Return Loss Tester can be wide dynamic range and high-precision measurement of optical return loss measurement. As a result of the large dynamic range and weak signal detection and other advanced signal processing and software processing techniques, optical return loss it can be 0 ~ 75dB of dynamic range measurements, with the current international advanced level.

AI9508A/B/C Series Optical Return Loss Tester can be flexible according to customer needs to configure to meet the needs of the user's personality testing to reduce testing costs.

AI9508A/B/C Series Optical Return Loss Tester with GP-IB interface (option), the composition can be easily automated test systems, to adapt to the requirements of automated measurements.

### Specifications:

TYPE		AI9508A/B/C
Return Loss Test	Optical return loss test(Output) interface type	FC/APC: 9/125 $\mu$ m
	Wavelength	1310/1490/1550/1625nm (Users can choose any mix)
	Output Power	$\geq$ -6dBm
	Range	0 ~ 75 dB
	Display	0.01 dB/0.1dB/1dB (can be set)
	Absolute accuracy <sup>①</sup>	$\pm$ 1.0 dB
	Relative accuracy <sup>①</sup>	$\pm$ 0.4 dB
Optical Power Test	Optical input interface	Interchangeable Interface (FC / SC / ST / LC / MU / MTRJ, etc.)
	Wavelength	850/1300/1310/1490/1550/1625nm
	Detection devices	InGaAs( $\phi$ 2mm probe of U.S. imports)
	Range	-80~+10 dBm
	Display	0.001dBm/0.001dB/0.01dBm/0.01dB/0.1dBm/0.1dB/1dBm/1 dB (can be set), 0.01pW
	Total uncertainty <sup>②</sup>	$\pm$ 5%
	Linearity <sup>③</sup>	$\pm$ 0.02dB
Multi-mode Test	Built-in light source	850/1300nm LED/LD
Break detection	Wavelength	650nm(Visible)
	Display	$\lambda$ :nm,RL:dB 和 P:dBm (Synchronous display)
Processing functions		Processing system calibration, Auto range, Auto-zero, The average processing, Wavelength selection
Interface functions		SH1,AH1,L4,T5,SR1,PP0,RL1,DT0,DC1,C0
Ambient		Operating Temperature:0 $^{\circ}$ C ~+50 $^{\circ}$ C , Humidity<95%RH
Other		Dimension: 95H $\times$ 223W $\times$ 300D mm, Weight: $\leq$ 4kg

Note: ① For a typical application, add  $\pm$ 0.4dB for readings between -60dB and -67dB; add  $\pm$ 0.8 dB for readings between -67dB and -72dB; add  $\pm$ 1.5dB for readings between -72dB and -75dB.

② Reference conditions: fiber core $\leq$ 50 $\mu$ m, NA $\leq$ 0.2, wavelength 1310nm, power level -23dBm, CW light

③ Ambient temperature: 18~28 $^{\circ}$ C,constant; 0~50 $^{\circ}$ C constant,  $\pm$ 0.05dB

### Ordering Guide:

<b>AI9508</b>	<b>Optical Return Loss/power meter</b>
AI9508A	1310/1550nm, 850 nm, 650nm, InGaAs( $\phi$ 2mm probe of U.S. imports)
AI9508B	1310/1550nm, 850&1300nm, InGaAs( $\phi$ 2mm probe of U.S. imports)
AI9508C	1310/1550nm, InGaAs( $\phi$ 2mm probe of U.S. imports)
OPT001	Add 1490nm (AI9508A/B/C options)
OPT 002	Add 1625nm (AI9508A/B/C options)
OPT 003	Add 1300nm (AI9508A options)
OPT G01	GP-IB Interface

### Standard Accessories

ITEM NAME	QUANTITY
Operation Manual	1
calibrated jumper FC/APC-FC/UPC (14.8dB)	1
Measurement jumper FC/APC-FC/UPC	1
FC-Type measurement adapter	1
Universal ( $\phi$ 2.5mm) detector adapter	1
Universal ( $\phi$ 1.25mm) detector adapter	1
Fiber wrapping bar	1
AC Power cord	1