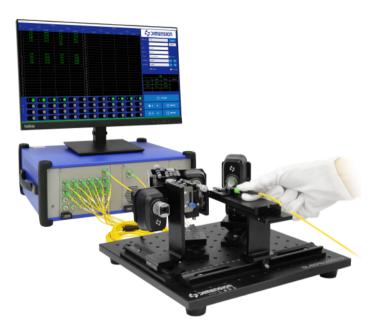


FA MAX MT-FA Test Solution



IL+RL+Polarity



One-stop solution

MT-FA with the development of optical modules also ushered in new market demand. Different from the traditional connector, the crystal end face at the end of MT-FA cannot be directly physically connected, and the length of the device is generally short, so there are problems such as light leakage and inaccurate return loss test, and the polarity of fiber cannot be tested with conventional polarity detector. Dimension Technology upgrades and iterates on the basis of multi-core polarity insertion loss instrument to provide customers with a one-stop FA/JUMPER test solution, taking into account the FA test of different branches and different angles, improving the efficiency of production inspection.

Main Advantage

- ·Support SM/MM FA test
- ·Customized wavelength
- ·IL,RL,Polarity 3 in one
- ·Special mode for FA, higher accuracy for RL
- ·Patented visual detection polarity
- ·Rich FA fixture, interface, easy to replace
- ·Optional external PD for muti-branch FA/Z-BLOCK
- ·Can be upgraded in the existingpolarity insertion loss meter
- ·Integratingball can be customized to test 2000+ core number FA

Main Application

- ·MT-FA
- ·JUMPER
- ·Z-BLOCK

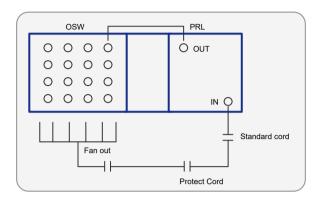
Main Feature

- ·Varible programmble functions
- ·For Tx IL、ISO, Rx IL、RL
- ·Base on OMEGA platform



Rich interface design, stable clamping, multi-dimensional optical parts fine tuning

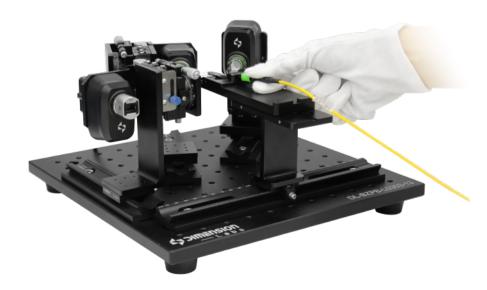
Traditional insertion and return loss meters often face interface issues when testing FA devices, causing light leakage and inaccurate measurements. Dimension Technology's clamp and interface design ensures quick, stable operation, prevents scratches, and reduces errors.



To accommodate wider FA or multiple branch ports, the insertion and return loss meter's integrating sphere now has a >10mm light entry aperture with a light leakage prevention design.



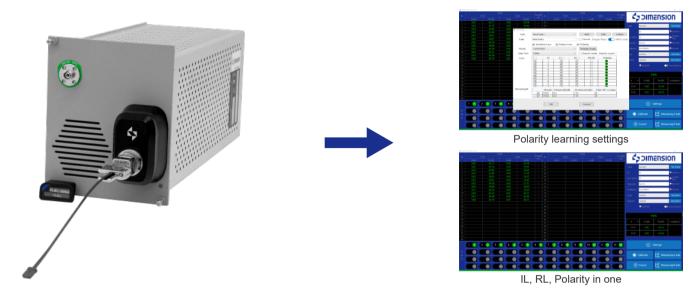
For MT-FA testing, Dimension Technology offers a multi-dimensional adjustable optical platform for simultaneous multi-port testing, easily adjustable for different devices.





One-step detection of IL, RL, and polarity, solving FA polarity issues

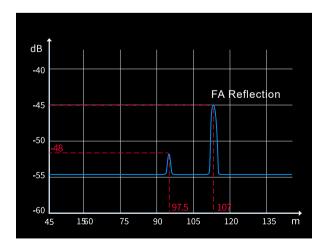
FA/JUMPER devices cannot connect to the MPO interface of polarity testers, making TOSA/ROSA array testing ineffective. Dimension Technology's patented visual polarity detection solves this problem. Integrated into the insertion and return loss meter, it enables one-step IL, RL, and polarity testingfor FA/JUMPER devices.

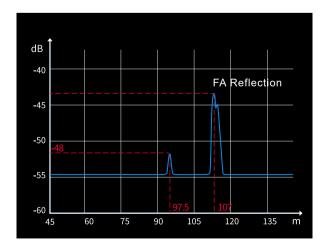


This testing solution can automatically test IL, RL, and polarity. For high-fiber-count arrays (2000+fibers), it uses a high-capacity integrating sphere. For multi-branch FA devices, the softwareintelligently organizes polarity sequences and generates a unified report.

Optimized return loss testingfor FA/JUMPER connectors

Non-wrapped return loss meters, based on OTDR principles, have blind spots when testina uitra-short connectors without special handling. Wrapped return loss meters using OcWR also fail to test MT-FA device Rx end MT return loss without matching gel. Dimension Technology has optimized the OTDR algorithm for FA-specific scenarios, enabling detection of Rx end MT return loss.





Based on the optimized algorithm of Dimension Technology's multi-core polarity insertion and return loss meter, the MT end return loss test results are stable and accurate when using matchinggel.

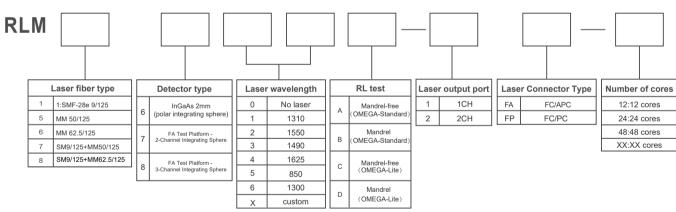


Main Specifications

Product Model		RLM-1812A-1FA-24	RLM-L-1812A-1FA-24
Product Series		Pro	Lite
Fiber Type		9/125nm	9/125nm
Test Wavelength		1310/1550nm	1310/1550nm
Return Loss Range		-30~80dB	-30~-72dB
Return Loss Accuracy		-30~-70dB: ±1.0dB	30~-65dB:±1.0dB
		-70~-75dB: ±2.0dB	-65~-70dB:±2.0dB
Insertion Loss Accuracy		0~1dB:±0.02dB	0~1dB:±0.02dB
		1~5dB:±0.05dB	1~5dB:±0.05dB
		5~10dB:±0.1dB	5~10dB:±0.1dB
Main Unit Section	Operating Power Supply	AC90~260V/50HZ	
	Startup Stabilization Time	30 minutes (if the storage temperature is different from the service)	
	Operating Temperature	10°C~40°C	
	Storage Temperature	-40°C~70°C	
	Size	OMEGA platform: 462mm*374mm*171mm	

^{*}Return loss accuracy: For optical power levels below -60dB, the error increases by ±0.1dB for every 1dB decrease in power.

Ordering Information



Example:
RLM1612A-1FA-24 24-Core Polarized Non-Wrapped Insertion Loss Meter, Wavelength 1310/1550, Single Mode 9/125 InGaAs 2mm (Polarized Integrating Sphere), Light Source Output Port 1CH, Interface Type FC/APC.

Model A/C supports dual laser wavelengths. The two-digit code represents the wavelengths of the two lasers, and customers can select the laser wavelengths from the list or customize them. Model B supports 4 single-mode wavelengths, and the laser wavelength must be selected as XX.

Related Products









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MT Pro

Smartcheck

FA-1