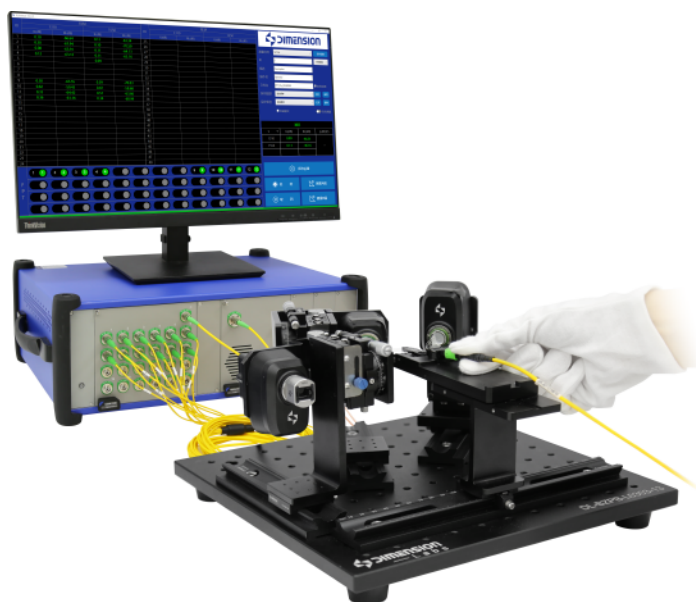
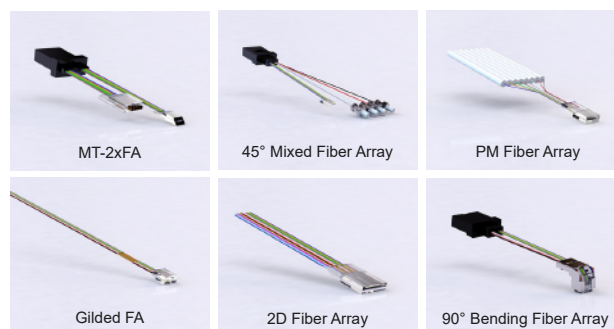


FA MAX

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 multi-branch FA/Z-BLOCK
- Can be upgraded in the existing polarity insertion loss meter
- Integrating ball can be customized to test 2000+ core number FA

Main Application

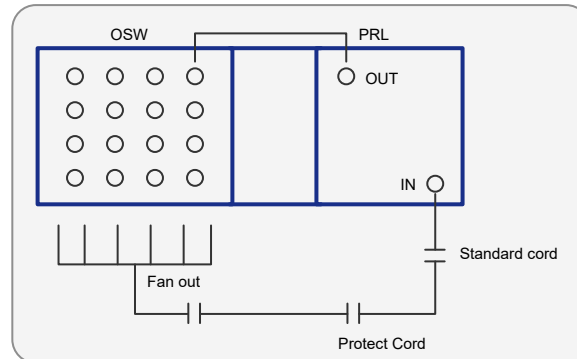
- MT-FA
- JUMPER
- Z-BLOCK

Main Feature

- Variable programmable functions
- For Tx IL, ISO, Rx IL, RL
- Base on OMEGA platform

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

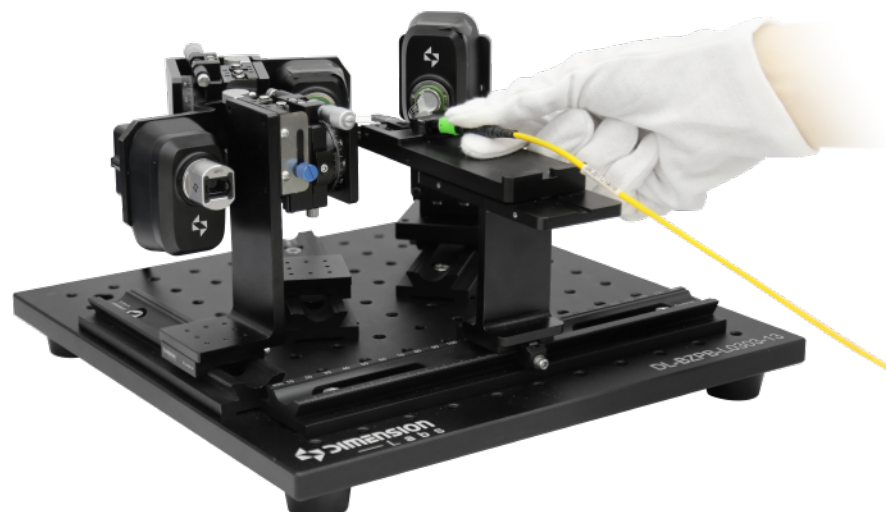
Traditional insertion and return loss meters often face interface issues when testing FA devices, causing light leakage and inaccurate measurements. Dimension Technology's clamp and interface design ensures quick, stable operation, prevents scratches, and reduces errors.



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.

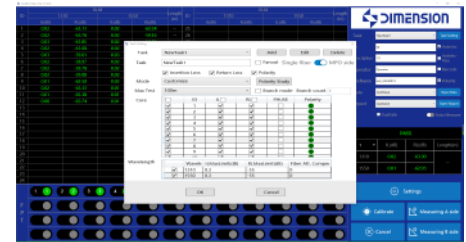


For MT-FA testing, Dimension Technology offers a multi-dimensional adjustable optical platform for simultaneous multi-port testing, easily adjustable for different devices.



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 testing for FA/JUMPER devices.



Polarity learning settings

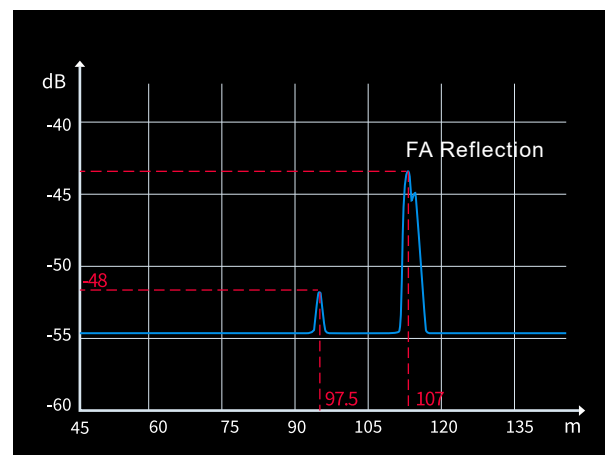
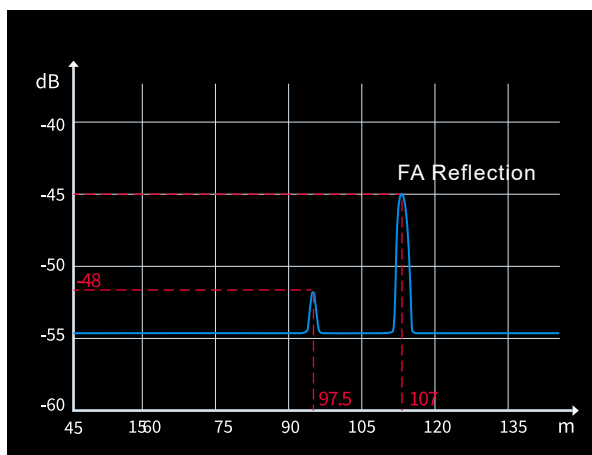


IL, RL, Polarity in one

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 software intelligently organizes polarity sequences and generates a unified report.

Optimized return loss testing for FA/JUMPER connectors

Non-wrapped return loss meters, based on OTDR principles, have blind spots when testing ultra-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 matching gel.

