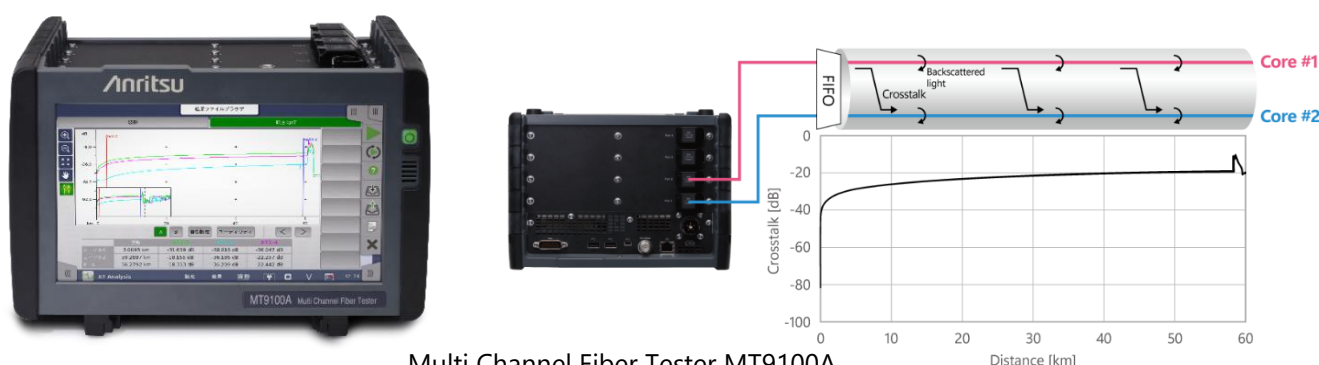


Multicore Optical Fiber Test Solution

Multi Channel Fiber Tester MT9100A



Multi Channel Fiber Tester MT9100A

The Multi Channel Fiber Tester MT9100A is the industry's first^[*1] OTDR capable of evaluating optical transmission characteristics, including crosstalk^[*2] between optical transmission paths (cores) of a multicore optical fiber. It measures up to four cores simultaneously and visualizes optical transmission characteristics in the direction of distance, including crosstalk between cores of a multicore optical fiber, making it possible to identify a point of failure in the multicore optical fiber. The MT9100A enables highly accurate and efficient measurements and analyses not only in R&D and manufacturing processes of multicore optical fibers but also in all aspects of network building and operation. It offers an ideal test solution for engineers to dramatically increase the quality of work and productivity through innovative technology.

Features

- **Industry's first multi-channel OTDR**
Equipped with a 4-channel OTDR, enabling simultaneous measurement of crosstalk between optical transmission paths (cores) of a multicore optical fiber.
- **Visualizing inter-core crosstalk in the distance direction**
Reveal the deterioration of inter-core crosstalk and identify areas where it increases.
- **Evaluate optical transmission characteristics with a single action**
Improves work efficiency compared to conventional transmission methods, as there is no need to switch optical fiber connections.

Applications

- Characteristic tests during R&D and field tests using multicore optical fibers
- Production and inspection processes of multicore optical fiber cables

[*1] As of November 2025; based on our research

[*2] Inter-core crosstalk: A phenomenon in which an optical signal transmitted over a specific core in a multicore optical fiber leaks to an adjacent core, interfering with the optical signal of that core. An increase in crosstalk worsens the signal-to-noise ratio, degrading the quality of communication.

For details of the functions and test items of the multi-channel fiber tester MT9100A, see its catalog.

Ordering information

Main unit specifications

Model/Order No.	Name
MT9100A	Multi Channel Fiber Tester
	- Standard accessories -
G0418A	AC Adapter: 1
	SHIELD POWER CORD (13A): 1
G0423A	Two LiION Batteries: 1
Z1746A	Stylus: 1
Z2195A	MT9100A Operation Manual CD: 1
MJB-1ET250002	Attached documentation on laws and regulations: 1

Port option selection

Model/Order No.	Name
MT9100A-010	Standard wavelength accuracy / UPC Polish
MT9100A-011	Standard wavelength accuracy / APC Polish
MT9100A-012	High wavelength accuracy / UPC Polish
MT9100A-013	High wavelength accuracy / APC Polish

Optical connector selection

Model/Order No.	Name
	- To be applied to the option 010/012 UPC polish -
MT9100A-037	UPC-FC Connector
MT9100A-040	UPC-SC Connector
	- To be applied to the option 011/013 APC polish -
MT9100A-025	APC-FC Connector
MT9100A-026	APC-SC Connector

For details, see its catalog.