AutoGet MT
Fiber Endface Inspector

With the breakthrough progress of CPO (co-packaged optics) technology, the deep integration of optical engines and chips has put forward higher requirements for the cleanliness and integrity of optical fiber end-faces. At this critical juncture of technological evolution, traditional detection methods are no longer able to meet the industrial needs of high integration and high reliability. The Autoget MT fiber endface inspector launched by Dimension Technology is designed to provide full-scenario intelligent inspection solutions for silicon optical integration, 1.6T/800G high-speed optical modules and next-generation high-density connectors. The equipment adopts a large-field optical system, which can completely image the multi-fiber core end face at one time, and automatically identify micron-level scratch defects with ultra-clear resolution lens and AI analysis algorithm. As a key quality inspection tool in the implementation of CPO technology, AutoGet MT redefines the on-site inspection standards of optical fiber end-faces with the three advantages of portability, micron-level accuracy, and fully automatic operation, providing reliable guarantee for the deployment and operation and maintenance of optical interconnection in data centers, and helping to build a more efficient and intelligent future network infrastructure

Key Features

- Large field of view Multi-fiber core full-end face imaging at one time
- Precise measurement in seconds Micron-level defects are not missed
- Full automation Focus, measurement and analysis are completed with one click
- Flexible and portable Ergonomic design for easy inspection

Applications

- Data centers
- 5G optical network construction and maintenance
- Large-field testing in university research laboratories

One screen to see the whole picture of the fiber core

AutoGet MT has a 4.6 mm × 1.6 mm large-field optical system that can cover the complete end face of multiple fiber cores at one time, and simultaneously present the core structure, end face defects and surrounding conditions, achieving true full-field non-destructive testing.
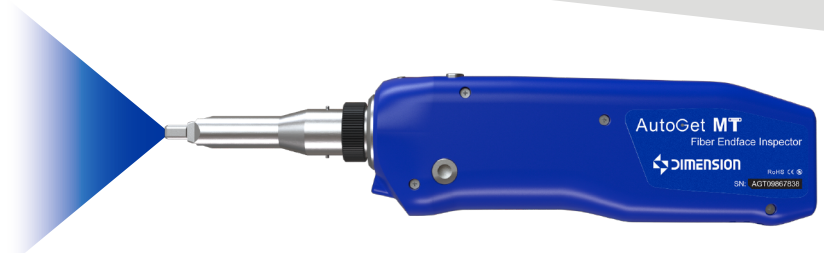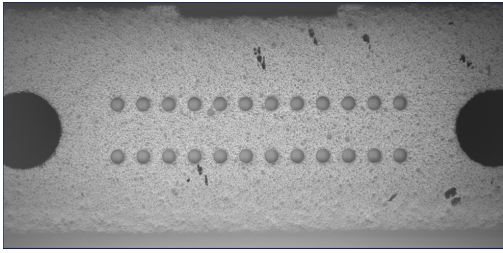
Intelligent and efficient detection Micron-level defects have nowhere to hide

AutoGet MT is equipped with Dimension Technology's self-developed intelligent analysis system, which integrates 0.96μm single-pixel high-resolution optical imaging and efficient intelligent algorithms to accurately identify micron-level scratches. The system integrates automatic focus, automatic centering, automatic exposure and automatic measurement, and can complete the whole process of detection and analysis with one click, truly achieving a double breakthrough in detection efficiency and recognition accuracy in high-precision application scenarios such as CPO and 800G optical modules.
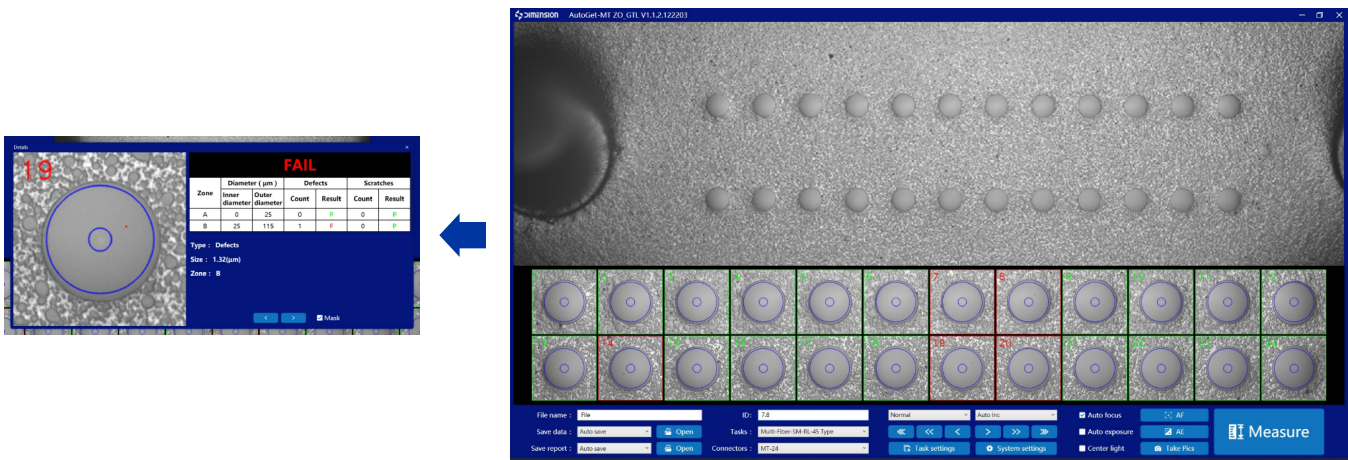
Ergonomic design for more comfortable handheld operation

AutoGet MT adopts a lightweight and compact design, the body conforms to the ergonomic curve, and the grip is comfortable and stable, making it easy to operate with one hand for a long time. The independent focus and shooting buttons are reasonably arranged, making it easy to achieve precise focusing and fast imaging, making on-site inspection more efficient and labor-saving.


One machine efficiently copes with full-scenario detection

AutoGet MT is fully compatible with 800G/1.6T high-speed optical modules and various new connectors and ferrules such as SN-MT, MMC, MXC, ELSFP, etc., and is fully adapted to the end-face inspection of single and multi-core devices through the flexible combination of optical paths, interfaces, and tooling.

One machine can handle diverse fibers

AutoGet MT truly realizes "one-machine coverage, all-fiber compatibility". In the deployment and maintenance scenarios of diverse optical fibers, AutoGet MT has become a reliable tool to meet the challenges of complex fiber types with customer-defined flexible configuration and powerful software and hardware support for complex fiber types in the face of complex fiber mix devices composed of conventional fibers, polarization-maintaining fibers, and dummy fibers.

Polarization Maintaining Fiber

Fully Fiber Endface Inspection

Conventional Fiber

Dummy Fiber
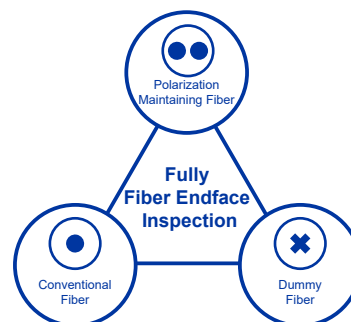
Specifications

Type	Parameter
Field of view	4.6 mm×1.6mm
Defect size detection	1um
Effective resolution	2um
Magnification	0.95 um/ px or 200x
Focus	auto
Measurement time	3.45 sec for MT12 3.55 sec for MT16 3.85 sec for MT24
Light source	royal blue LED, 465 nm
Camera type	digital, USB3.0
Sensor type	monochrome, 5472 x 3648,1"CMOS
Live image	19.2 fps full resolution
Power source	USB TypeC / DC 5V
Dimensions (L × W × H)	230mm × 34mm × 55mm
Weight	450g
Operating temperature	-5 to +40°C

Related Products

OT-200 Multifiber MPO
Optical Time Domain Reflectometer

Bert 800
800G Bit Error Rate Tester

Fast Check MT
Fully Fiber Endface Inspector

AutoGet Wifi Intelligent
Fiber Endface Microscope