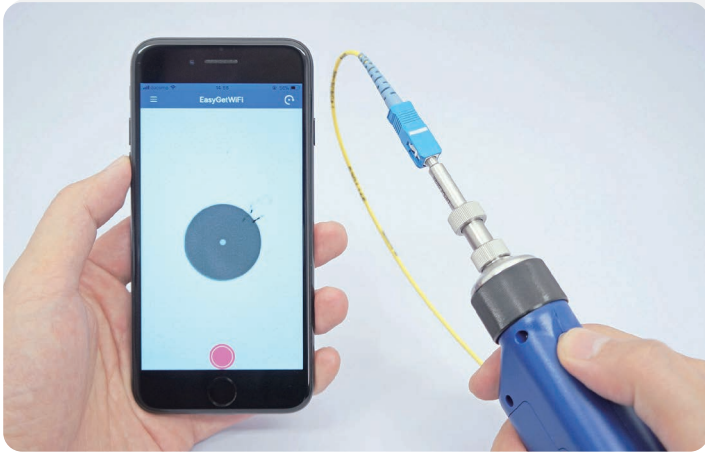


Supports high-quality optical connector manufacturing and maintenance with high-resolution and speedy end face inspection.



An increasing number of communication problems that occur in optical networks are caused by dirt adhering to the end faces of optical connectors. This is because the communication light is reflected and attenuated by microscopic dust and hand oil that cannot be seen with the naked eye on the end face of the optical connector, and normal communication cannot be performed. These optical connector end face inspection tools are designed specifically for optical connector inspection and is the best solution to prevent such the troubles and improve communication quality and reliability.

POINT

1

Lightweight, compact and highly portable.

POINT

2

Achieves auto Pass / Fail analysis in accordance with international standards.

POINT

3





Various lineup including autofocus model.



Specification





There are 2 main types of optical connector end face inspection tools, depending on the purpose and use. One is a portable type which is lightweight, compact, and easy to handle. It is mainly used at connection /maintenance work sites. The other is a bench top type with higher resolution and excellent repetitive workability for the optical connector production sites.

•Portable Type

Product	EasyGetWiFi	AutoGet	AutoGetWiFi	SMX-MANTA-W+
Main Use	211×44×33mm	182×48×25mm	282×201×57mm	246×70×38mm
Dimension	Single Fiber, Multi Fiber*	Single Fiber, Multi Fiber*	Single Fiber, Multi Fiber*	Multi Fiber*
Weight	188g	152g	565g	435g
Power Supply	Rechargeable Battery	USB bus power	Rechargeable Battery	USB bus power
Monitor/Device	SmartPhone/PC	PC	3.2inch LCD monitor	PC
Focus	Manual	Auto	Auto	Auto
Connection	USB/WiFi	USB	USB/WiFi (Only data export)	USB
FOV	512um×384um	450um×360um	620um×620um	4,100um×3,000um
Pass/Fail Function	OK	OK	OK	OK
Image				

*A proper adaptor is necessary when inspecting multi fiber.

•Bench Top Type

Product	EasyCheck	AutoCheck	SmartCheck	FastCheck
Main Use	270×245×155mm	265×188×147mm	265×188×147mm	286×101×86mm
Dimension	Single Fiber, Multi Fiber*	Single Fiber, Multi Fiber*	Multi Fiber*	Single Fiber, Transceiver
Weight	1.6kg	6.9kg	6.9kg	3.3kg
Power Supply	AC Adapter	AC Adapter	AC Adapter	AC Adapter
Monitor/Device	8inch LCD monitor	8inch LCD monitor	PC	PC
Focus	Manual	Auto	Auto	Auto
Connection	Stand Alone	Stand Alone	USB	USB
FOV	EC80KC:1250um×937um EC200KC:500um×375um EC400KC:250um×180um	250um×180um	250um×250um Scan Range 5,000um×6,000um	410um×410um
Pass/Fail Function	—	OK	OK	OK
Image				

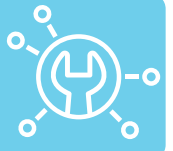
*A proper adaptor is necessary when inspecting multi fiber.

*Specifications are subject to change without notice.

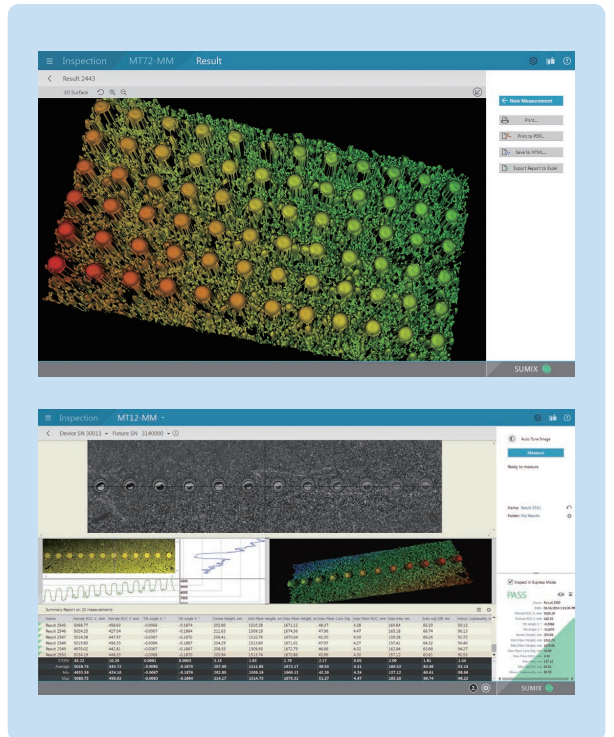
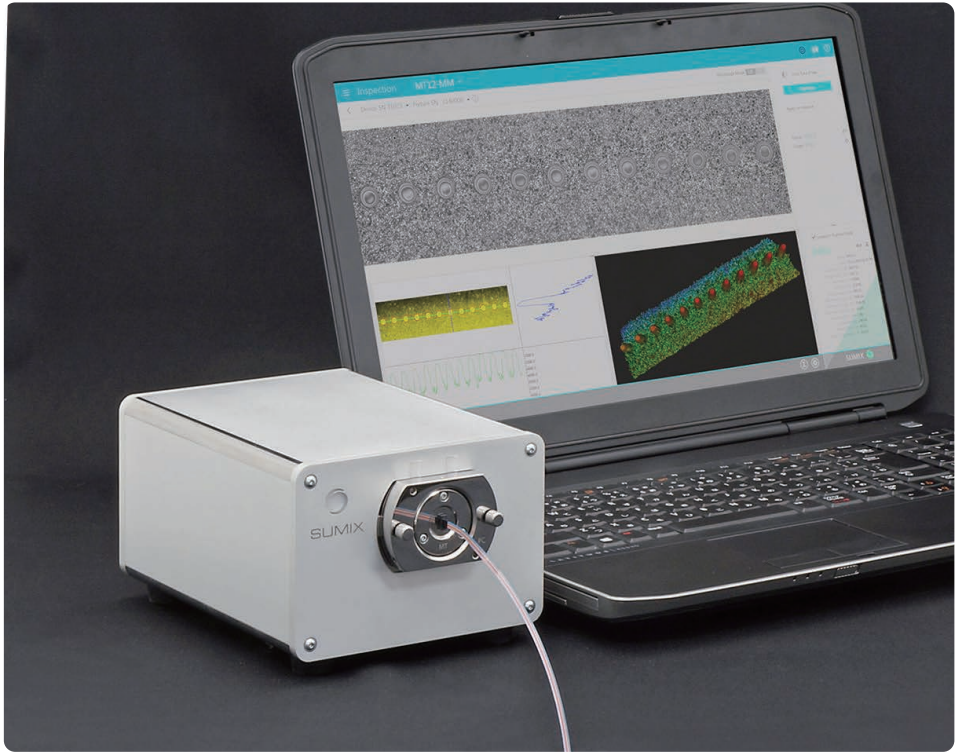
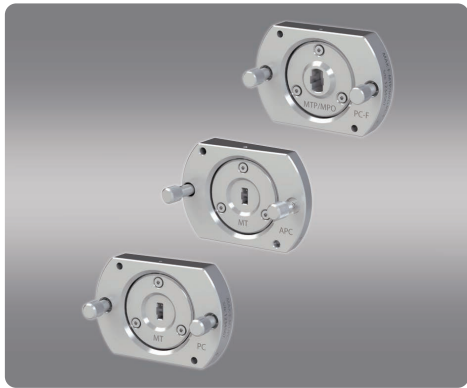
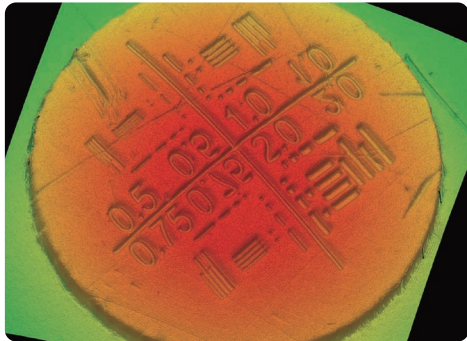
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For more information, please contact <https://www.ntt-at.com/product/opt-inspect/>





We support high quality optical connector manufacturing with high resolution, speedy measurement.



We support high quality optical connector manufacturing with high resolution, speedy measurement.

The optical connector end face three dimensional shape measurement system MAX+/WIZ+ series is a noncontact high precision interference type shape evaluation device conforming to IEC international standard which can automatically measure the end face shape of single core / multi core connectors. Its compact housing makes it easy to handle, and it achieves speedy and highly accurate measurements, improving work quality at the optical connector manufacturing site.

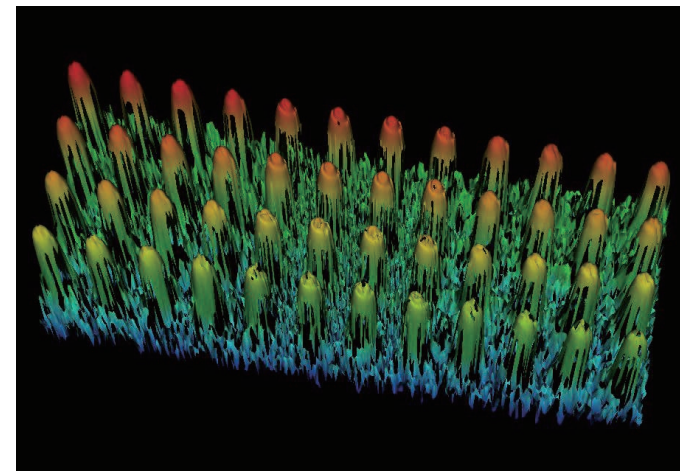
The strong points of MAX+/WIZ+ Series

Compact and Lightweight Housing

The housing enclosure has a compact design that can be installed in a smaller space than a B4 sized notebook, and weighs less than 4 kg, so it is easy to carry.

Speedy Measurements with High Resolution Images

By adopting an optical system that realizes a wide viewing angle and a high resolution image sensor, it is possible to evaluate the edge shape with high definition.



Measurements Can be Made with a General Use PC

By simply installing the shape measurement software and drivers on a general Windows PC, you can start measuring immediately.

Many Types of Mounting Jigs

With a wide range of mounting fixtures available, not only standard optical connectors such as SC/LC/FC connectors, but also special optical connectors such as E2000 and MIL-ST can also be measured by simply exchanging mounts.



No Anti-vibration Table Required

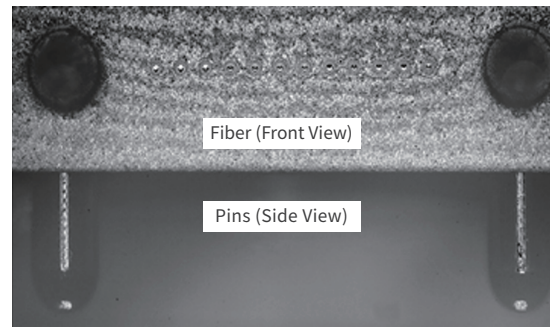
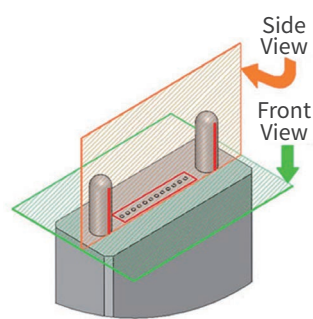
Careful anti-vibration measures are included in the housing eliminating the need for an anti-vibration table, so it can be installed anywhere.

AF (Autofocus) Function

With the MAX+/WIZ+ series, the AF function automatically focuses and performs the measurement.

High Reproducibility in Multicore Measurement

Sumix's unique SideView mount observes the ferrule part of the pin MPO connector from the side (Sideview), and automatically corrects the insertion position shift of the ferrule by software, realizing highly efficient repeatable measurements. Also, multi-core mounts can be easily secured to connectors so it is easy to apply to automated lines.

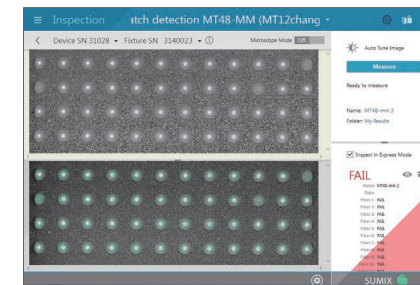


Features and Functions of the Shape Measurement Software [MaxInspect]

Automatic Scratch Detection

When measuring the end face shape, it captures the end face image of the optical connector, detects and evaluates scratches, dirt, chips, etc. by image analysis and makes an automatic pass / fail judgment. End face inspection and end surface shape measurement can be done simultaneously with one MAX+ series device, something which is two separate processes in conventional equipment. This also contributes to a reduction of the number of processes and time needed.

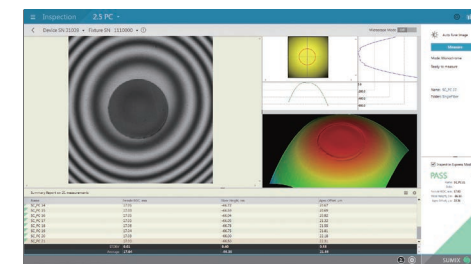
※ NOT available for WIZ-QS+/MAX-QM+



Suitable Design for Mass Production

It is equipped with the ideal functions, such as display simplification (express mode) and measurement with a foot pedal switch, for quality inspection in mass production processes. In addition, it is also possible to customize the operating environment according to the user, such as setting a special worker mode in which pass / fail judgment standard values cannot be changed, etc.

※ The foot pedal switch is optional equipment.



Easy-to-Use Interface

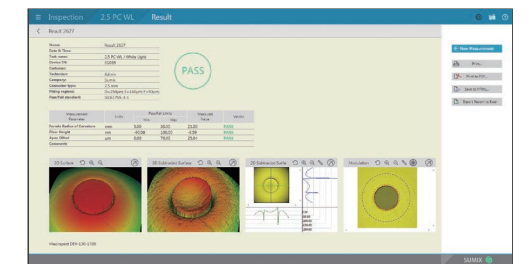
The icon interface for each function allows for intuitive operation. The software is multi lingual. For Japanese and English version, NTT-AT 's own simple manual is also attached and there is no worry of getting lost even for the first time operation.

※ At installation, you can choose between the display languages of Japanese, English and Chinese.



Wide Variety of Output Report Functions

Output format is HTML, EXCEL and PDF. It is possible to output the calculated maximum, minimum, average and deviation value of each measurement data in summary form. You don't need to calculate the measured value.



Points to Consider in Model Selection

Functions for Both Single and Multi-Fiber Machines

Model Number	Specifications		Functions
	Field of View	Resolution	
MAX-Quantum	Large	High	•Auto Focus •MT16-32 core compatibility •End face scratch inspection •SideView compatibility
MAX-QM+	Large	Medium	•Auto Focus •MT16-32 core compatibility •SideView compatibility
MAX-QM-B+	Medium	High	•Auto Focus •End face scratch inspection

Functions for Only Single-Fiber Machines

Model Number	Specifications		Functions
	Field of View	Resolution	
MAX-QS+	Medium	Medium	•Auto Focus •End face scratch inspection •SMA, MT-RJ connector measurement
WIZ-QS-110	Small	Medium	•Auto Focus

•Field of View
Large: more than 3 mm square; Medium: less than 3 mm square and more than 0.8 mm square; Small: less than 0.8 mm square
•Resolution
High: Less than 2 μm; Medium: more than 2 μm and less than 3 μm; Low: 3 μm or more

Specifications

		Only Single-Fiber Connectors		Both Single and Multi-Fiber Connectors		
		MAX+ Series	WIZ+ Series	MAX+ Series		
Model		MAX-QS+	WIZ-QS-110	MAX-QM+	MAX-QM-B+	MAX-Quantum
Measurement time per a ferrule / connector ^{※1}		2sec. (Single Fiber/PC)	1.8sec. (Single Fiber/PC)	1sec. (Single Fiber) 3sec. (MT12)	1sec. (Single Fiber) 5sec. (MT12)	1.4sec. (Single Fiber) 7sec. (MT12)
Optical resolution (um)		1.1	2.5	2.2	1.4	1.47
Field of view (mm)		1.1 × 0.9	1.2 × 0.9	5.6 × 3.5	3.5 × 2.5	6.0 × 4.4
End face inspection (automatic scratch detection) function		○	—	—	○	○
Autofocus		○	○	○	○	○
Shape measurement accuracy ^{※2}	Repeatability C.F./ Repeatability C.R. (SC/PC) ^{※3}	ROC (%)	0.1/0.16	0.04/0.05	0.04/0.05	0.002/0.002
		Fiber height (nm)	0.3/0.4	0.1/0.4	0.1/0.4	0.4/0.4
		Apex offset (um)	0.02/0.6	0.04/1.1	0.04/1.1	0.02/0.55
	Repeatability C.F./ Repeatability C.R. (MT12) ^{※3}	ROC (%)	—	0.9/1.2	0.9/1.2	0.9/1.2
		Fiber height (nm)	—	0.8/1.1	0.8/1.1	0.8/1.1
		Angle (deg)	—	0.0004/0.01	0.0002/0.005	0.0003/0.01
Measurable ferrule/connectors ^{※4}	ST, FC, SC (PC and APC)		○	○	○	○
	MU, LC (PC and APC)		○	○	○	○
	E2000 (PC and APC)		○	○	○	○
	MIL-ST (M83522/16, MIL-C-83522)		○	○	○	○
	M29504/14 (MIL-PRF-29504/14)		○	○	○	○
	SMA 905		○	—	○	○
	MT-RJ (PC and APC)		○	—	○	○
	MT12-MT72 (PC and APC)		—	—	○	○
	MT16, MT32 (PC and APC)		—	—	○	○
	MTP/MPO (PC and APC)		—	—	○	○
	MTP/MPO (12-72 fiber and 16-32 fiber; PC and APC) for SVF fixture		—	—	○	○
Illuminator		Green LED (530nm)				
External interface		USB3.0 ×2 (For communication and power supply) DC plug for power supply ×1				
Weight (kg)		3.9		3.8		4.8
Dimensions (H×W×L mm)		103 × 137 × 183	150 × 120 × 90	103 × 137 × 183		181 × 213 × 117
Standard accessories		USB cable ×1, AC power adaptor ×1 Optical Flat standard 1set USB memory (includes Measurement Software, Product Activation software, Users manual) 1set				

※1... Measurement time depends on the state of the end face of the object to be measured and the performance of the PC used.

※2... Values represent the values publicly posted by the manufacturer.

※3... Repeatability C.F. is a numerical value in 1 or which measures the repeatability of 30 times without inserting and removing the optical connector. For MAX - Quantum only, the value for single-core data uses SC / APC.

※4... Requires the use of a separately sold mount jig.

MAX+/WIZ+ Series Measurement Software [MaxInspect] Operating Environment

Operating System	Processor	Memory	Interface	Software
Windows 10	Intel Core i5 (Intel Core i7 Recommended)	4GB and over	USB3.0	Microsoft™ Excel® 2010 or higher

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For more information,
please contact

<https://www.ntt-at.com/product/smx/>

