

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 (μm)	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)		○	○	○	○	○
	SMA905		○	—	○	○	○
	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/σ 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

For more information,
please contact

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



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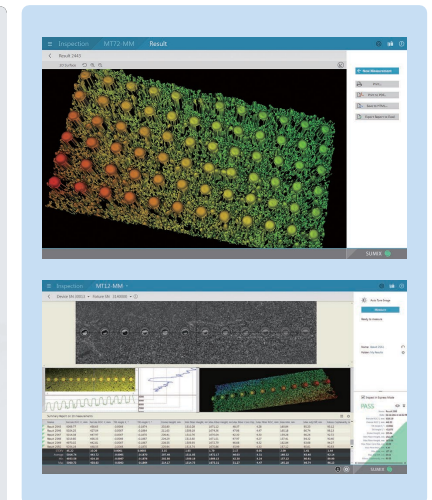
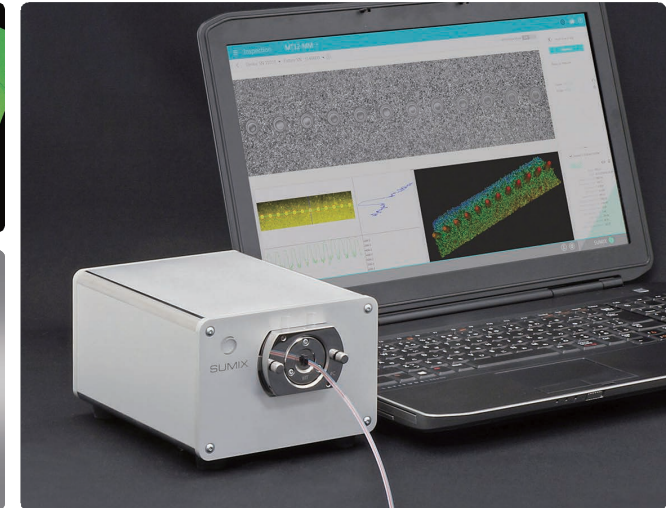
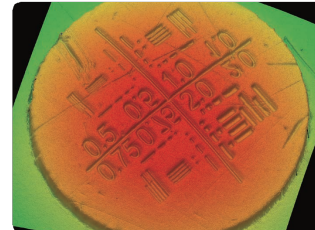


3D Measurement System for Optical Connector End Face
MAX+/WIZ+ Series



We support high quality optical connector manufacturing

with high resolution, speedy measurement.



IT Infrastructure Support

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

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.

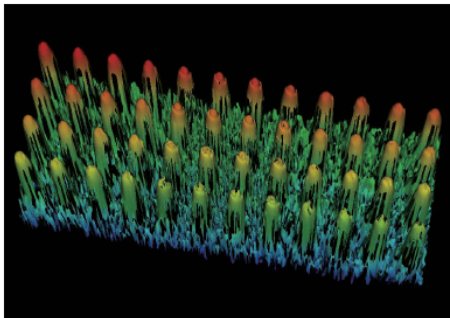
The strong points of MAX+/WIZ+ Series

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

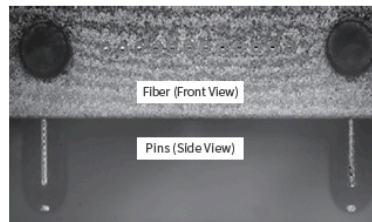
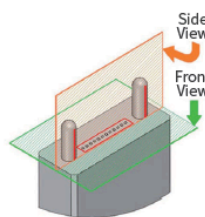
Careful anti-vibration measures are included in the housing eliminating the need for an anti-vibration table, so it can be installed anywhere.

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.

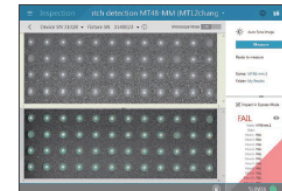


Features and Functions of the Shape Measurement Software [MaxInspect]

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.

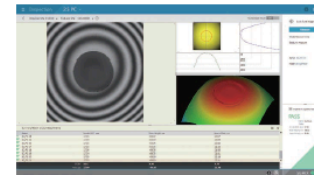
※ NOT available for WIZ-QS+/MAX-QM+



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