

# MAX+

## interferometers



Single fiber



Multi-fiber



Phase shift, white light



Scratch detection



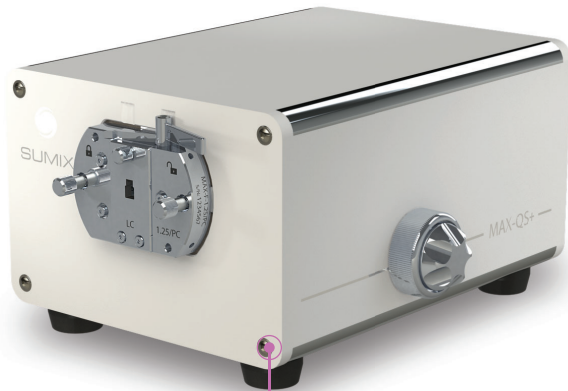
Auto focus



Industry standards



PASS/FAIL verdict



**MAX-QS+**  
for single fiber connectors



**MAX-QM+**  
for single and multi-fiber  
connectors,  
including MT16/32



**MAX-QM-B+ \***  
for single and multi-fiber connectors



\*discontinued, available for current customers only



software supplied with Sumix interferometers

# Specification

Optimal for connectors	Single fiber	Single and Multi-fiber	Single and Multi-fiber MT16-32
Models	MAX-QS+	MAX-QM-B+*	MAX-QM+
Field of view	1.1 × 0.9 mm	3.5 × 2.5 mm	5.6 × 4.2 mm
Lateral resolution	1.1 μm	1.4 μm	2.2 μm
Best suitable for connectors/ferrules (PC and APC)	ST, FC, SC, MU, LC, E2000, MT-RJ, MS termini, bare fiber	MT, MTP/MPO, MT-RJ, SMA 905, MS termini, ST, FC, SC, MU, LC, E2000, bare fiber	MT, MTP/MPO, MT-RJ, SMA 905, MS termini, ST, FC, SC, MU, LC, E2000, MT16, MT32, Football ferrule
Measurement mode	phase shift and white light	phase shift and white light	phase shift and white light
Scanning and calculation speed	2 sec*	<1 sec** 5 sec***	3 sec***
Maximum image size	2590 × 1940 px	2590 × 1940 px	2590 × 1940 px
Power supply	external, USB 3.0 cable, 12 V DC power adapter	external, USB 3.0 cable, 12 V DC power adapter	external, USB 3.0 cable, 12 V DC power adapter
Weight	3.9 kg (8.6 lbs)	3.8 kg (8.4 lbs)	3.8 kg (8.4 lbs)
Dimensions (H × W × L)	103 × 137 × 183 mm (4.06 × 5.39 × 7.2 in)	103 × 137 × 183 mm (4.06 × 5.39 × 7.2 in)	103 × 137 × 183 mm (4.06 × 5.39 × 7.2 in)
Focus	autofocus	autofocus	autofocus
Focus range	±1 mm	±1 mm	±1 mm

\* discontinued, available for current customers only

\*\* 64 MHz, standard single fiber connector

\*\*\* 64 MHz, MT 12 connector with small x, y angles



MaxInspect™ software provides the following **tools for integration** into customer's manufacturing systems:

- Export of results to Excel/CSV files;
- Direct connection to customer's SQL database;
- MaxInspect™ WebSocket API;
- Centralized MaxInspect™ database.

**Inspection** MT12-PC **Result**

Result2604

Name: Result2604  
Date & Time: 3/14/2016 4:40:12 PM  
Title name: MT12-PC  
Device SN, Fixture SN: MAX-QM 37003, 324007  
Customer:  
Technician: Admin  
Company: Sumix  
Core dip algorithm: Parabolic  
Fitting regions: L=2900μm; H=675μm; E=140μm; F=50μm; CurvA=20%; Top=3%  
Pass/Fail standard: IEC 61755-3-32 (based on)  
Calculation standard: IEC 61300-3-30 Ed.2

**PASS**

Measurement Parameter	Units	Pass/Fail Limits		Measured Value	Verdict
		Min	Max		
Ferrule Radius of Curvature X	mm	-10000.00*	2000.00*	-12909.73	PASS
Ferrule Radius of Curvature Y	mm	5.00		124.01	PASS
Tilt Angle X	°	-0.1500	0.1500	0.0372	PASS
Tilt Angle Y	°	-0.2000	0.2000	0.0121	PASS
Dome Height	nm			360.65	N/A
Geometry Limit		10.50		N/A	N/A

\* - Pass value must be less than Min and greater than Max

Measurement Parameter	Units	Pass/Fail Limits		Measured Value	Verdict
		Min	Max		
Max-Min	nm			195.37	N/A
Max Adj Diff	nm	0.00	500.00	75.65	PASS
Minus Coplanarity	nm	0.00	300.00	92.73	PASS
Coplanarity Plane Angle X	°			0.0004	N/A

Measurement Parameter	Units	Pass/Fail Limits		Fiber Number / Measured Value / Verdict											
		Min	Max	1	2	3	4	5	6	7	8	9	10	11	12
Height	nm	1000	3500	2517.97	2519.43	2484.31	2432.01	2388.91	2464.56	2468.24	2444.93	2476.63	2551.22	2584.10	2584.28
ROC	mm	1		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Core Dip	nm			31	42	38	34	60	16	62	42	50	71	34	40

3D Surface | Live View Snapshot | 3D Subtracted Surface | 2D Subtrac...

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