

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-B+

for single and multi-fiber connectors



MAX-QM+

for single and multi-fiber connectors, including MT16/32



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	5.3 × 3.5 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, barefiber	MT, MTP/MPO, MT-RJ, SMA 905, MS termini, ST, FC, SC, MU, LC, E2000, barefiber	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

* 64 MHz, standard single fiber connector

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



Smart and ergonomic fixtures with integrated memory chips store service information

Inspection MT12-PC Result

Result2604

Name: Result2604
Date & Time: 3/14/2016 4:40:12 PM
Task name: MT12-PC
Device SN, Fixture SN: MAX-QM 37003, 324007
Customer:
Technician: Admin
Company: Sumix
Core dip algorithm: Parabolic
Filling regions: L=2900μm; H=67μm; E=140μm; F=50μm; CumA=20%; Top=3%
Pass/Fail standard: IEC 61755-3-32 (based on)
Calculation standard: IEC 61300-3-30 Ed2

FERRULE

Measurement Parameter	Units	Pass/Fail Limits	Measured Value	Verdict	
		Min	Max		
Ferrule Radius of Curvature X	mm	-1000.00°	2000.00°	-12908.73	PASS
Ferrule Radius of Curvature Y	mm	5.00	124.01	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	N/A

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

FIBER HEIGHT LIMITS

Measurement Parameter	Units	Pass/Fail Limits	Measured Value	Verdict	
		Min	Max		
Max-Min	nm			195.37	N/A
Max Adj DIF	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

FIBERS

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	2386.91	2464.56	2468.24	2444.93	2476.63	2551.22	2584.10	2584.28
RDC	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	N/A
Core Dip	nm			31	42	38	34	40	16	62	42	50	71	34	40

3D Surface, Live View Snapshot, 3D Substrated Surface, 2D Substrated Surface

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