

Sumix designs and manufactures handheld microscope probes for endface inspection of single and multi-fiber connectors. The probes can be used to inspect and verify both the patch cord and bulkhead sides of fiber interconnect, of both PC and APC types.

Three models are available: SMX-Scopio (digital), SMX-Scopio-B (digital, with the external test button) and SMX-Scopio-A (analog).

Features and Benefits

Purpose built high-quality optics

See defects as small as $0.5\mu m$ - high quality measurements in the field.

Long barrel and flat housing

Easily inspect connectors in dense patch panels and hard to reach equipment or vehicles. Flat housing also prevents the probe slipping off the work surface.

"Finger-friendly" focusing system

Focus fast, focus sure. More measurements – less time.

Robust design (aluminum body, stainless steel barrel)

If it drops – do not worry. No plastic to break. One year warranty included.

Test button (SMX-Scopio-B version)

Inspect connectors at the push of a button. Fewer movements – less time.

Wide variety of tips

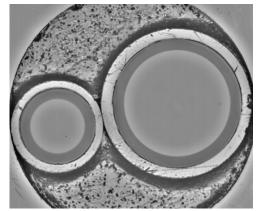
Inspect single and multi-fiber connectors, both genders of PC and APC termini.

New SMX-LightSpeed™ software with user-friendly interface (available with SMX-Scopio and SMX-Scopio-B)

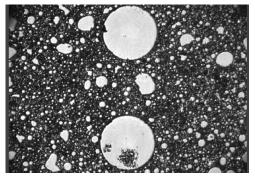
Is your connector good? Let the software decide and document results. Eliminate user subjectivity. Use preinstalled Pass/Fail criteria based on IEC standards or create your own limits.

Portable 3.5" TFT Display (available with SMX-Scopio-A)

No external power source is needed, just connect directly to the charged portable 3.5" TFT display via the mini jack.



Two fiber SMA connector endface (SMX-Scopio)



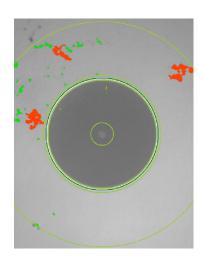
Segment of MT12 connector endface (SMX-Scopio)

Specifications

	SMX-Scopio and SMX-Scopio-B*	SMX-Scopio-A			
Field of view:	d = 0.4 mm	d = 0.4 mm			
Defect size detection:	0.5 μm	1 μm			
Optical resolution:	2 μm	2 μm			
Magnification:	600× (variable)	200×			
Light source:	blue LED, 470 nm	blue LED, 470 nm			
Camera type:	digital	analog			
Sensor type:	monochrome, 1280 \times 1024, 1/2" CMOS	monochrome, 1/3" Sony CCD			
Live image:	800×800 , 28 fps default 1280 \times 1024, 14 fps full resolution	320 × 240 full resolution			
Power source:	USB 2.0/3.0 Port of PC	internal battery of 3.5"TFT display			
Cable connector:	USB 2.0	mini jack			
hysical					
Dimensions (H×W×L):	$56.3 \times 25 \times 201 \text{ mm}$ (2.22 × 0.98 × 7.91 inches)	$56.3 \times 25 \times 201 \text{ mm}$ (2.22 × 0.98 × 7.91 inches)			
Weight:	330 g (0.73 lbs)	330 g (0.73 lbs)			
Housing material:	aluminum	aluminum			
Barrel material:	stainless steel	stainless steel			
pplications					
Optimal for connectors:	industrial, telecommunication	industrial, telecommunication			
Used with:	desktop PC, laptop	3.5"TFT display, other analog displays (custom order)			

^{*} version with the test button





Test Name	:	25							
Test ID:		25							
Preset:		IEC PC SM RL 45 dB						-	
Device:		SMX-Scopio							
Hardware ID:		4022						FAIL	
SMX-Scopio Inspection:		2.1.55.1977							
Operator:		Operator1							
Zone	Diameter (µm)			Anomalies					
	Inner	Outer	Type	Criterion	Size Range	Result	Count	Allowed	
	0	25	Scratch	Width	>0	PASS	0	0	
A			Defect	Encompassing	>0	PASS	0	0	
А			ретест	Circle Diameter					
В	25	120	Scratch		>3	PASS	0	5	
	25	120		Circle Diameter	>3 2-5	PASS PASS	0 2	5	



