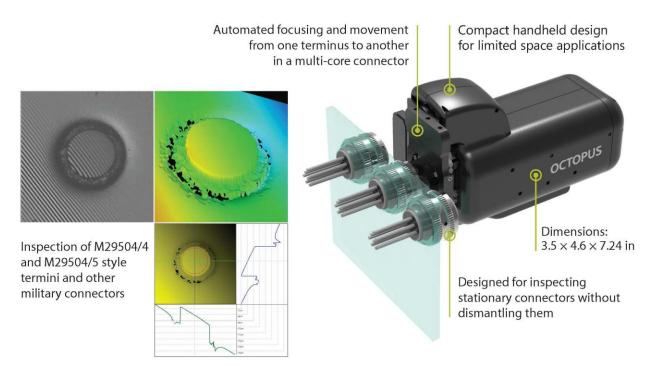




# Robotic interferometer for maintenance inspection of multi-termini fiber optic connectors



## Inspect mounted MIL style connectors in 3D. Ensure reliability and accurate performance of a critical connection.

End face inspection of MIL style connections is crucial as they are used in mission-critical systems demanding high optical performance and are continuously exposed to vibration, temperature cycling, repeated mating, and other harsh environmental conditions.

This is why for critical applications, 2D evaluation of a terminus end face would be insufficient. Additional inspection must be performed by interferometry to:

- obtain 3D information about the defect that can't be removed by cleaning;
- detect fiber chips and cracks;
- register fiber height change of connectors over time to avoid mating issues.

Sumix OCTOPUS robotic interferometer uses a multi-axis motion system allowing geometry inspection of fiber optic termini inside military and harsh environment connectors installed in patch-panels, server boxes, and other optical-network units on board of an aircraft or marine vessel.



### **Application**

- Aerospace, marine and military vehicle field service;
- On-site inspection in harsh environments like oil & gas, backbone telecom etc.

#### Specification

**Connectors tested:** M29504/4, M29504/5 style termini, other MIL style and harsh environment connectors

Field of view: D = 1.6 mm

**Area covered:** Y, X-axis motion: ± 12.5 mm

Optical resolution:3.2 μmMagnification:300×Focus:AutofocusFocus range:4 mm

**Measurement mode:** white light + phase shift

**Power supply:** external, USB 3.0 cable, 12 V DC power adapter

**Dimensions (H × W × L):**  $90 \times 118 \times 184 \text{ mm} (3.5 \times 4.6 \times 7.24 \text{ in})$ 

**Weight:** 1.26 kg (2.78 lbs)

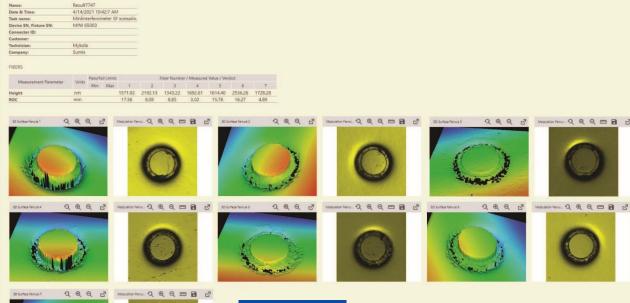
**Compatible with:** desktop PC, laptop, tablet

**Operating system:** Windows 10 Compliance with IEC measurement standards

NIST traceable calibration

### Capabilities

- Fiber Height and Radius of Curvature measurement
- 3D anomalies detection.





For more information, please contact your local Senko sales representative or email us at <a href="mailto:sales@senko.com">sales@senko.com</a>.

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