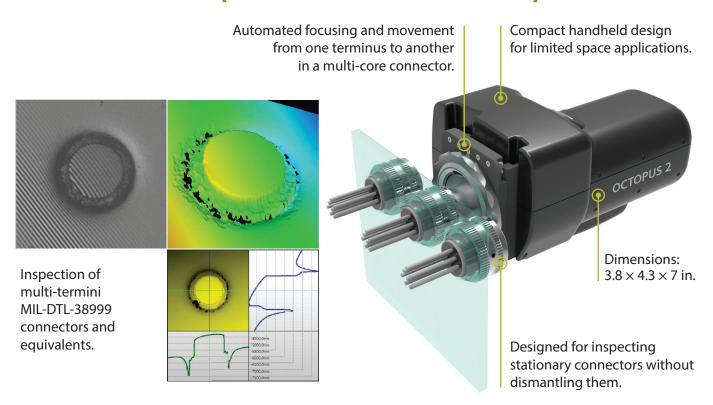


Octopus 2

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 is vital for MIL style connections in mission-critical systems subjected to vibration, temperature changes, and other harsh conditions.

A mere 2D assessment of a terminus end face won't suffice for critical applications. Interferometry is essential to:

- Provide 3D information on a defect that can't be removed by cleaning;
- Identify fiber chips and cracks;
- Monitor fiber height to prevent mating issues.

The Sumix OCTOPUS 2 robotic interferometer employs a multi-axis motion system for thorough geometry inspection of fiber optic termini in military and harsh environment connectors installed in aircraft or marine vessels' patch-panels, server boxes, and other optical-network units.



Application

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

Specification

Connectors inspected: MIL-DTL-38999 and 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: $3.2 \mu m$ Magnification: $300 \times$ Focus: Autofocus

Focus range: 6 mm

Measurement mode: white light

Data transfer and power: USB 3.0 cable, 12 V DC power adapter **Dimensions (H \times W \times L):** 97 \times 110 \times 176 mm (3.8 \times 4.3 \times 7 in)

Weight: 1.3 kg (2.86 lbs)

Compatible with: desktop PC, laptop, tablet

Operating system: Windows 10

NIST traceable factory calibration

Capabilities

Fiber Height and Radius of Curvature measurement

3D anomalies detection.

