

DORC ZX-1 micro Array+ HD

Automated Multi-Fiber and Single-Fiber Interferometry for High-Performance Connector Measurement

Overview

The VIAVI DORC ZX-1 micro Array+ HD is a sixth-generation interferometer engineered for the measurement of MT/MPO®, MMC, MT-RJ, and single-fiber connectors on a single platform. Designed to deliver both high-resolution 2D and 3D imaging, the system provides rapid, comprehensive connector geometry analysis.

Built for ease of use, the ZX-1 micro Array+ HD automates focus, centering, and reference mirror calibration, eliminating manual adjustments and simplifying operator workflows. Patented ceramic Reference Guide Pin technology maintains measurement accuracy while eliminating calibration requirements when switching between multi-fiber chucks. For single-fiber measurements, Connect ID™ RFID technology enables rapid apex offset calibration with minimal setup time.

The system's compact footprint, hermetically sealed optical module, and fan-less design make it ideal for both production environments and laboratory applications. A wide range of standard and custom chuck options supports virtually any connector type, while onboard storage of calibration data, software, and system backups provides fast recovery and reduced maintenance requirements. Automatic Microsoft Excel® reporting and integrated 2D/3D analysis further streamline quality control and manufacturing processes.



Features

- Measures both multi-fiber and single-fiber connectors
- Supports 16-fiber and 32-fiber MT and MCC connectors, as well as next generation connectors like FAU and CPO
- Automated focus, centering, and calibration
- High-resolution 2D and 3D imaging
- Patented no-calibration chuck technology

Benefits

- No calibration when changing multi-fiber chucks
- Reduces measurement time and operator involvement
- Improves measurement accuracy and repeatability
- Simplifies maintenance and system recovery
- Supports a wide range of connector types on one platform

Applications

- MT/MPO®, MMC and MT-RJ connector measurement
- Single-fiber connector inspection
- Manufacturing quality control
- Production-line testing and automation
- R&D and process validation

Ordering Information

Item	Description
ZXARRAY+HD	ZX-1 micro Array+HD Interferometer



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