



Manufacturer:
DORC

Product Name:
DORC ZX-1 micro PMS+ PRO Single Fiber Interferometer - 2.5mm

Manufacturer Part Number:
ZXPMS+PRO25

▶ [Click here for more details on the DORC ZX-1 micro PMS+ PRO Single Fiber Interferometer - 2.5mm](#)

DORC's ZX-1 micro PMS+

Part #: ZXPMS+PRO125
ZXPMS+PRO25
ZXPMS+



KEY BENEFITS

- Measures single fiber connectors and fiber cleaves.
- Patent Pending RFID interface allows instant apex offset calibration in a single measurement.
- Very small footprint – supplied by default with a laptop computer. Desktop and Tablet PC's available upon request.
- Modular design allows the system to grow with your needs and budget.
- Automatic reference mirror calibration – NO manual adjustments!!
- Automatic connector centering – NO manual adjustments!!
- Automatic focus, manual focus or BOTH!!
- Hermetically sealed optical module – a dusty production environment is no longer a problem.
- High resolution camera and optics – results in improved repeatability and reproducibility.
- Simple interface – just a single power cord and USB 2.0 or 3.0 port on the rear.
- No anti-vibration table required. Fan-less design removes any system induced vibration.
- Patented inspection mode and scratch analysis.
- Fast measurement – <1.3 seconds (depending on model, excluding focus).
- “Auto Sense” technology, initiates a measurement automatically as soon as the connector is inserted.
- Simple operation – centering, focus and initiating the scan itself can all be completely automatic.
- Calibration is held on the instrument itself, eliminating the need to keep the interferometer and PC as a matched pair.
- Software backup, calibration and an image of the PC itself (if supplied), are all stored on the instrument itself, in non-volatile memory – making lost disks, viruses, deleted files, corrupted Windows and PC failures easy to fix.
- System design lends itself to integration in automated production lines.
- Manufactured by a vendor that has sold more automated connector measuring interferometers than all other vendors combined.
- Complete system ships in a single 16”x16”x20” box when configured with a laptop or tablet PC.
- 1 Year Warranty included.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice. FOC last update 3/30/2026.



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PRODUCT INFORMATION

The Z stage will back itself away from the front panel automatically when a “Connect ID” enabled chuck removal tool approaches the system. This removes the possibility of damaging the interferometers primary optical window when removing or installing chucks. This feature requires the autofocus option to work!! Chucks that are “Connect ID” enabled transfer information about their capabilities to the ZX-1 micro PMS+ automatically, as soon as they are installed. This allows the system to become “context sensitive” to its configuration. For example, if a single fiber chuck is installed on a ZX-1 micro Array+, it can automatically change to single fiber mode and all software menus will become truncated to include features only applicable to single fiber measurements.

A variety of standard and custom ferrule diameter chucks are available to support all types of single fiber connector diameters and even bare fibers. Only one screw is used to secure a chuck to the interferometer and changing chucks can be accomplished in just seconds - with less than 30 seconds required overall, INCLUDING the apex offset calibration.

Once a connector is measured, all results are automatically saved in the industry standard Microsoft Excel format. The operator has a wide variety of display, printing and saving options for both measurement “History” and “Quality Control” reports. The Patented design provides the ability to simultaneously provide 3D geometry, 2D microscope image and automated scratch analysis of the connector under test - removing the requirement for separate instruments to provide this additional functionality.

The ZX-1 micro PMS+ stores all calibration, the PMS (Phase Measuring System) software and even a complete image of the system controller’s hard drive (if supplied), on the instrument itself. This not only makes the system PC independent, but also means that the system can recover itself from virus attacks, Windows file corruption, deleted files, malicious employees and potential PC failures in just minutes. The system also has a “factory restore” capability, returning the unit to its shipped state at the press of a button. Add to this the fact that software updates can be downloaded directly from our web site and there is NO scheduled maintenance whatsoever, and you end up with a maintenance technicians “dream machine”.

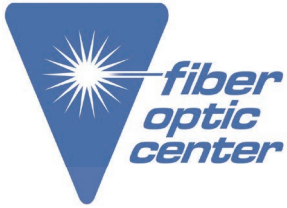
It’s important to remember that DORC only manufactures interferometers for measuring the end face geometry of fiber optic connectors. It is our focus and our passion, and we do not find ourselves distracted by unrelated product lines. In many ways this fact is reflected by our success over the past 21 years – DORC has sold more automated connector measuring interferometers than ALL other manufacturers combined.

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