

# DI-1000MPO Digital Fiber Inspection Scope

The DI-1000MPO Digital Fiber Inspection Microscope can be operated in either wired or wireless mode and can be used with mobile devices and VeEX test sets to inspect multi-fiber and single-mode connector endfaces of fiberoptic cables for installation and maintenance.

## Overview and Controls

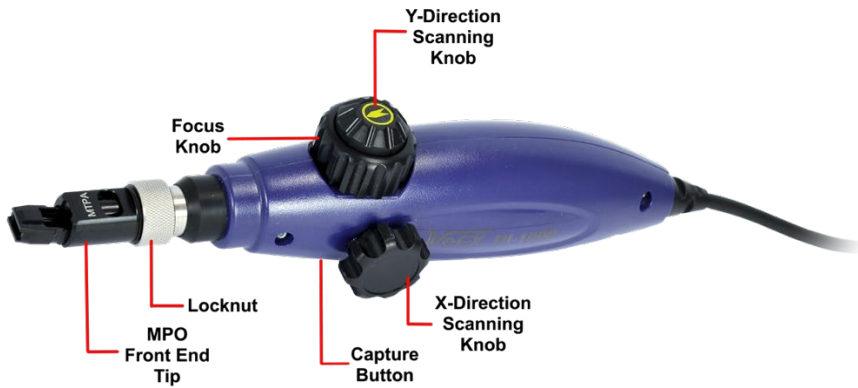


Figure 1: DI-1000MPO Functions



Figure 2: DI-1000MPO with single fiber collar

VeEX supported platforms include: [Fiberizer® Mobile Scope Windows Desktop PC](#), [Fiberizer® Mobile for Android™](#), [Fiberizer® Mobile for iOS](#), and some VeEX platform test sets. Depending on the platform used, extra accessories may be required for connection.

See [Optional Accessories by Platform](#) for a list of equipment options for each platform.

## Setup: USB Connection

For Android mobile devices and V150 platforms, use an OTG adapter cable (*not provided*) to connect the scope to the host device USB port. Either a micro-B USB (m) to USB-Type A (f) OTG cable or a USB-C (m) to USB-Type A(f) OTG cable is required. All other VeEX Linux platforms (except iOS) do not require an OTG cable; insert the USB-Type A (male) connector into the standard USB-Type A port.



*For all platforms, the WiFi must be turned off when using a USB connection. For VeEX Linux-based test devices, the **Scope mode** must be set to **Local**.*

## Setup: WiFi Bridge Connection

The USB WiFi Bridge and Power Bank for Fiberscope allows you to connect your FiberScope wirelessly. It is a required [option](#) for Fiberizer Mobile iOS and optional for Fiberizer Mobile Android, Fiberizer Mobile Scope, and any VeEX test sets with WiFi on the host device.



Figure 3: VeEX WiFi Bridge and Power Bank for Fiberscope



Figure 4: DI-1000MPO connected to WiFi Bridge

Connect the DI-1000MPO to the VeEX WiFi Bridge, then move the 3-way switch to **R** to enable WiFi operation. Using the host device WiFi setup, search for “*veex\_fiberscope\_####*” and press **Connect**.

### VeEX V150/RXT1200/MTTplus/TX300S Platforms

1. Select the **Fiber Scope** option on the V150 test device, then select the **WiFi Fiberscope** checkbox. The test set will perform the WiFi connection steps (scan, select SSID, connect) automatically.
2. On the **Setup** screen, select **Remote** from the **Scope mode** drop-down box, and then press **OK** on the confirmation screen.
3. Complete **Page 1** and **Page 2** settings, then select the **Capture** tab and press **Resume** or **Capture Fiber**.

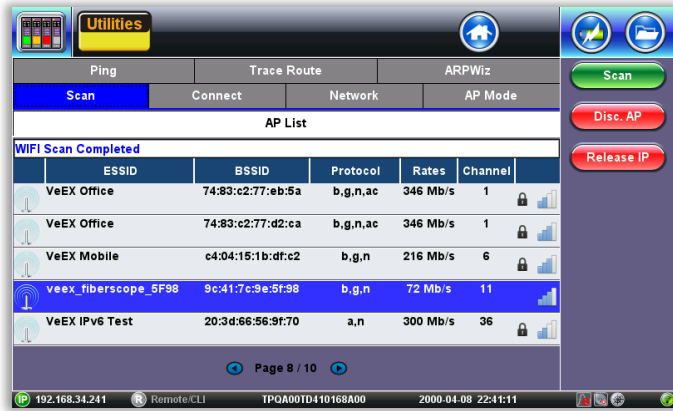


Figure 5: V150 Platform WiFi setup (>Tools>WiFi Wiz)



Figure 6: V150 Platform WiFi setup (Fiber Scope Setup)

### Fiberizer® Mobile Scope, Android™ and iOS Plus/Lite

In the mobile device’s WiFi settings, select the Fiberscope WiFi SSID “*veex\_fiberscope\_####*” and connect to it. Launch the Fiber Scope application. (Applicable to mobile devices, CX310.) For step-by-step instructions, see the software manual on the [DI-1000MPO product page](http://www.veexinc.com) on [www.veexinc.com](http://www.veexinc.com).



Make sure **Auto-join** is toggled to reconnect to the unit automatically. This will help towards ensuring a stable connection.

**[Fiberizer Mobile Scope and Android]:** Select **☰** → **Fiber scope**. Then, select the **Wi-Fi scope** radio button and tap **Connect**.

**[Fiberizer Mobile iOS Lite]:** Select **Measurements** → **FiberScope** → **Connect** and tap **Run**.

**[Fiberizer Mobile iOS Plus]:** Select **Microscope**, then select **Connect** and tap **Run**.

### Scoping Procedure





1. After powering on and setting up the fiberscope and attaching the correct tip, connect the fiber under test (FUT) to the DI-1000MPO. Launch the Fiberizer application (PC, mobile) or Fiberscope software on the VeEX test set and connect to the WiFi network (see previous section).
2. Define the following setup parameters: Autosave parameters, file structure naming (Job ID, Cable ID, Fiber ID, Test ID), IEC analysis type, tip type, live scoping functions (Auto-freeze, Rect/Dots highlighting, Shake, or MPO mode w/MPO kit). For MPO group analysis, set **Auto Freeze** to **OFF**. For the tip type, use the **MPO UPC (some APC)** and **MPO APC** setting along with the **PC, MM** connector type.
3. Use the Focus Wheel to adjust the focus. The fiber endface (silhouette or shadow outline) should be aligned as near to the center as possible (APC connectors will sometimes appear at best slightly left or right aligned).
4. Proper Illumination of the fiber endface is also important in revealing defects/scratches that may be hidden from the analysis if dimly lit (e.g., APC-female connectors). When the optimal focus level is reached, the auto-focus will freeze and capture the image for analysis.
4. To add the current image to the test results, tap **Play [FMS Android]**, **Run [FMiOS]** or press **Resume or Capture Fiber [VeEX test set]** to activate the video capture feed. Alternatively, press the **Capture** button on the bottom of the scope.
5. To save the file with multiple images, tap or press **Save**. Below the image, the next number is highlighted.
6. To view recently saved test results, tap **History [FMS Android/Fiberizer Mobile]** or highlight the result file on the **Results** tab and press **Load [VeEX test set]**. Tap each individual screenshot to view the individual MPO fibers.



## Fiberizer Apps

Any applications for iOS and Android smart devices are available in the Apps section of VeEX's website <https://www.veexinc.com/apps>. When installing VeEX Apps for the first time, users are required to authorize VeEX as a trusted enterprise developer.

## Optional DI-1000MPO Accessories by Platform

Platform	Software	Equipment	Equipment Images
Windows PC Desktop	<i>Fiberizer Scope for Windows PC Desktop</i> <a href="https://www.veexinc.com/products/fiberizer-scope">https://www.veexinc.com/products/fiberizer-scope</a>	<b>None.</b> Connect directly to USB Type A port on the computer.	N/A
Apple iOS (mobile)	<i>Fiberizer iOS Lite &amp; Plus</i> <a href="https://www.veexinc.com/apps">https://www.veexinc.com/apps</a> *Requires IOS 13.0 or higher	<b>Requires:</b> <i>Wireless connection:</i> USB WiFi Bridge and Power Bank for Fiberscope Z99-99-028G	
Android OS (mobile)	<i>Fiberizer Mobile Scope (latest version)</i> <a href="https://www.veexinc.com/products/fiberizer-scope">https://www.veexinc.com/products/fiberizer-scope</a> *Android 16 to Android 12  <i>Fiberizer Mobile Android (FMA) {legacy support}</i> <a href="https://www.veexinc.com/apps">https://www.veexinc.com/apps</a> *Android 6 to Android 12	<b>Requires:</b> <i>OTG Cable for USB micro-B</i> F02-00-090G --OR-- <i>OTG Cable for USB Type C</i> F02-00-102G --OR-- <i>Wireless connection:</i> USB WiFi Bridge for Fiberscope Z99-99-028G	
VeEX test set (V150 platform e.g., FX150+, FX180(X), CX310, MTX150)	<i>Fiber Scope (Linux) platform software</i> (provided on test set)	<b>Requires:</b> <i>OTG Cable, Micro-B USB (m) to USB-A (f), 15 cm (standard item)</i> F02-00-090G	
VeEX test set (RXT1200, TX300S, MTTplus)	<i>Fiber Scope (Linux) platform software</i> (provided on test set)	Connect directly to USB Type A port on the test set. --OR-- <i>Wireless connection:</i> USB WiFi Bridge for Fiberscope Z99-99-028G	N/A 
All	All	<b>Tips/Connectors</b>	See the <a href="#">DI-1000/DI-1000MPO/DI-3000 Adapter Tips Guide</a> on <a href="http://www.veexinc.com">www.veexinc.com</a> .

## About VeEX

VeEX Inc., a customer-oriented communications Test and Measurement company, develops innovative test and monitoring solutions for next generation telecommunication networks and services. With a blend of advanced technologies and vast technical expertise, VeEX products address all stages of network deployment, maintenance, field service turn-up, and integrate service verification features across Copper, Fiber Optics, CATV/DOCSIS, Mobile 4G/5G backhaul and fronthaul, next generation Transport Network, Fibre Channel, Carrier & Metro Ethernet technologies, WLAN and Synchronization.

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