

Quick Card

P5000i Fiber Microscope

Fiber Inspection with the Android™ FiberChekMOBILE™ app

This quick card describes how to use the VIAVI P5000i Fiber Inspection Microscope and FiberChekMOBILE software on an Android tablet or phone to inspect a simplex fiber end face.

Note: The P5000i can also be used with an iPhone® or iPad® using the VIAVI FBPP-WIFI wireless adapter.

Equipment Requirements:

- Smartphone or tablet, Android Version 4.1 or greater
- USB adapter cable. The cable must pass both data and power (USB OTG)
The following cables are recommended. Ctrl+click to purchase on-line:
 - [CableCreation USB 3.0 to USB-C adapter](#)
 - [Insten USB 2.0 to Micro USB adapter](#)
- P5000i Fiber Inspection Microscope optioned with:
 - Bulkhead and Patch Cord Tips matching the Fiber Under Test
 - FiberChekMOBILE software option, part number SW-FCM-A1
(If missing, Ctrl+click here to [request a quote](#). Please provide the P5000i serial number in the comments field, as listed on the barcode on the bottom of the P5000i.)
- Fiber optic cleaning tools



The following information is required to complete the test:

- Type of Fiber (Multimode or Single Mode)
- Type of Connectors (SC UPC, SC APC, LC UPC, etc.)
- Type of Tip (See Figure 2)

Install the FiberChekMOBILE App:

- Search for **FiberChekMOBILE** in the Google Play™ store.
- Tap **INSTALL** and **ACCEPT** to install the application.
- Connect the P5000i to your tablet or phone using the USB Adapter Cable.
- Tap the checkbox to “Use by default for this USB device” and tap **OK**.
- Tap **Accept** to accept the VIAVI Software License Terms.

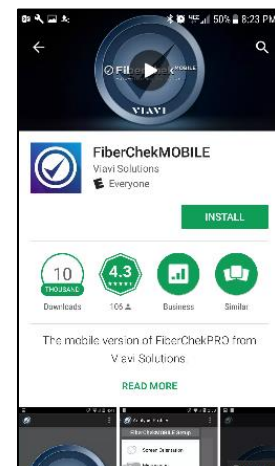


Figure 1: FiberChekMOBILE app






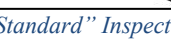
INSPECTION TIP	APPLICATION
FBPT-SC	
FBPT-U25M	
FBPT-SC-APC	
FBPT-U25MA	
FBPT-LC	
FBPT-U12M	

Figure 2: Commonly Used “Standard” Inspection Tips



Figure 3: P5000i Fiber Microscope

Inspect Fiber End Face:





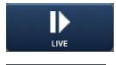

1. Connect the appropriate **Inspection Tip** to the P5000i by loosening and tightening the **Retaining Nut** on the P5000i Barrel Assembly. Note: Some tips connect directly to the probe, without a barrel assembly. Consult the *VIAVI Tips & Adapters Selection Guide* for more information.
2. Connect the P5000i to your tablet or phone using the **USB Adapter Cable**. The **FiberChekMOBILE** App will automatically launch.
3.  Tap the **Profile** icon and select the profile that matches the Fiber Under Test:
 - **SM UPC (IEC-61300-3-35 Ed. 2.0)** for Single Mode Fiber Ultra Polished Connectors
 - **SM APC (IEC-61300-3-35 Ed. 2.0)** for Single Mode Fiber Angled Polished Connectors
 - **MM (IEC-61300-3-35 Ed. 2.0)** for Multimode Fiber
4.  Tap the **Tip** icon and select the type of Inspection Tip you are using:
 - **Standard Tips (with BAP1)** for Standard Patch Cord Inspection Tips (i.e. FBPT-U12M, FBPT-U25M, FBPT-U25MA) and Standard Bulkhead Inspection Tips (i.e. FBPT-LC, FBPT-SC, FBPT-SC-APC)
 - **Simplex Long Reach (-L) Tips** for Long Reach Inspection Tips (i.e. FBPT-LC-L, FBPT-SC-L)
 - For other types of inspection tips, connect the P5000i to FiberChekPRO™ on a PC and move the appropriate tip setting onto the probe microscope. For more information, consult the FiberChekPRO user manual. To download FiberChekPRO to your PC, visit <http://fcpro.updatemyunit.net/>.
5.  Tap the **Magnification (HIGH/LOW)** icon on the Android screen to Select **HIGH (400x)** magnification.
6. Insert the **Bulkhead Inspection tip** into the bulkhead or insert the Patch Cord ferrule into the **Patch Cord Inspection tip** on the P5000i.
7. Adjust the focus of the fiber image by turning the **Focus Control Wheel**.
8.  Tap the **Test** soft key to capture the fiber end face image, analysis all defects, and display Pass/Fail results.
9.  Tap the **Save Report** soft key to archive the image and test result.
10.  Tap the **Live** soft key to unfreeze the screen and view the live image.
11.  If the test fails, clean the fiber end face and repeat steps 6 through 10.
12.  If the test passes, you are ready to Connect.



Figure 4: FiberChekMOBILE

Note: Both the patch cord and bulkhead should pass inspection before connection.