

Quick Card

FiberChek™ Probe Fiber Microscope

Fiber Inspection with FiberChekMOBILE™ Android™

The following procedure outlines how to use the FiberChek Probe Microscope with the VIAVI FiberChekMOBILE Android app to inspect a simplex fiber end face.

Equipment Requirements:

- FiberChek Fiber Inspection Microscope
- Smartphone or tablet, Android version 7.0 or greater
- Bulkhead and Patch Cord Tips matching the fiber under test
- 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 Inspection Tips (See Figure 1):
 - Standard Patch Cord tip (FBPT-U12M, FBPT-U25M, FBPT-U25MA, etc.)
 - Standard Bulkhead tip (FBPT-SC, FBPT-SC-APC, FBPT-LC, etc.)
 - Long Reach Bulkhead tip (FBPT-LC-L, FBPT-SC-L, etc.)
 - Angled Bulkhead tip (FBPT-LC-A6S, FBPT-SC-A6, etc.)

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

Figure 1: Commonly Used "Standard" Inspection Tips

Install FiberChekMOBILE:

- Search for FiberChekMOBILE in the Google Play™ store.
- Tap **INSTALL** and **ACCEPT** to install the application.

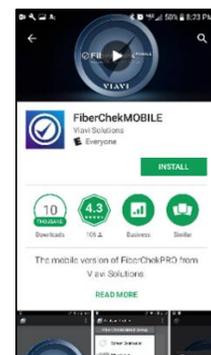


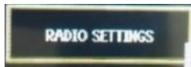
Figure 2: FiberChekMOBILE App



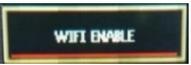
Figure 3: FiberChek Microscope

Set up the FiberChek Probe Microscope:

1.  Press the **Power Button** to turn on the FiberChek Probe.
2. Enable **Wi-Fi**:
 - Tap the **Touchscreen Display** to enter the **Settings** menu.



Use the **Navigation control** or touch the arrows on the screen to highlight **Radio Settings** and press the **Action Button**.



- Use the **Navigation control** button or touch the arrows to highlight **Wi-Fi Enable** and press the **Action button**.

3. Press the **Return button** or press the **Trigger** to return to the Live Inspection screen. A Wi-Fi icon will appear at the top of the screen.
4. Connect the FiberChek Probe microscope to a Smartphone via **Wi-Fi**:
 - Enable Wi-Fi on the Smartphone.
 - Tap FiberChek Wi-Fi SSID to connect.

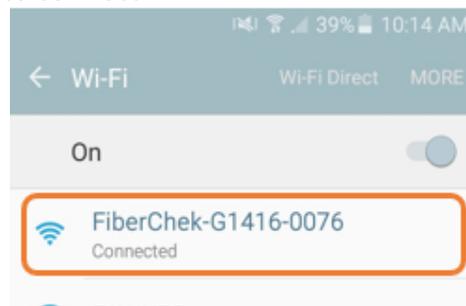


Figure 4: Wi-Fi networks

5. Connect the appropriate patch cord or bulkhead **Inspection Tip** to the FiberChek Fiber Inspection Microscope by loosening and tightening the **Retaining Nut** on the FiberChek Probe barrel assembly. Note: Some tips connect directly to the probe, without a barrel assembly. Consult the *VIAMI Tips & Adapters Selection Guide* for more information.

Set up the FiberChekMOBILE app:



1. Press the **FiberCheckMOBILE** icon on your Smartphone to launch FiberChekMOBILE.
2. Tap the **Tip** and **Profile** icons and select the options that match the fiber under test:



Tips:

- **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 FiberChek Probe to FiberChekPRO™ on a PC and move the appropriate tip setting onto the microscope. For more information, consult the FiberChekPRO user manual. To download FiberChekPRO to your PC, visit <http://fcpro.updatemyunit.net/>



Profiles:

- **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
- **SM PC & Fiber Stub (IEC-61300-3-35 Ed. 2.0)** for Single Mode Fiber Polished Connector
- **MM (IEC-61300-3-35 Ed. 2.0)** for Multimode Fiber.

Run Pass/Fail Analysis:

1. Insert the **Bulkhead Inspection Tip** into the bulkhead or insert the Patch Cord ferrule into the **Patch Cord Inspection tip** on the FiberChek Microscope Probe.
2. Press the **Trigger** of the FiberChek microscope to auto-focus the fiber under test. The left horizontal bar on the screen indicates the level of focus adjustment. The higher the level, the better the focus.

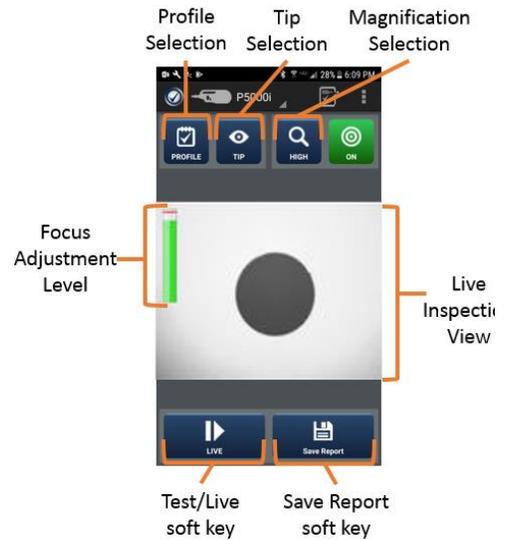


Figure 5: Live Inspection View

3. There are 3 ways to run the fiber inspection test:

-  Press and hold the Trigger on the FiberChek Probe for 2 seconds.
- Press the Action button on the FiberChek Probe.
- Press the **TEST** option on the screen.

4.

FAIL	
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 If the test **fails**, clean the fiber end face and **repeat steps 1 through 3**.

5.

PASS	
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 If the **test passes**, you are ready to **Connect**.

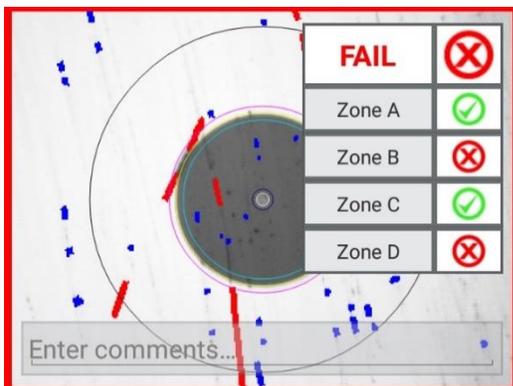


Figure 6: Failed Test

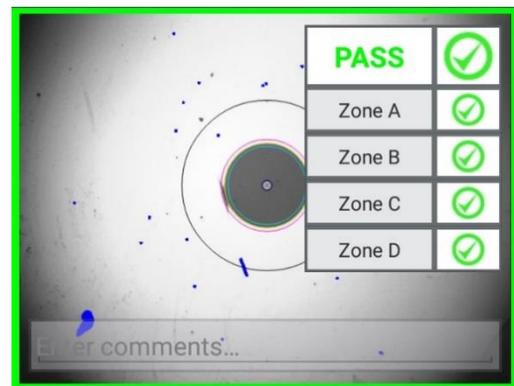


Figure 7: Passing Test

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