Quick Card

FiberChek™ Probe Fiber Microscope
Fiber Inspection with FiberChekMOBILE™ iOS™

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

Equipment Requirements:
- FiberChek Fiber Inspection Microscope
- Smartphone (iPhone®) or tablet with iOS and the FiberChekMOBILE app (Search the App Store® to install FiberChekMOBILE)
- 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	

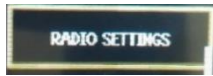*Figure 1: Commonly Used "Standard" Inspection Tips*
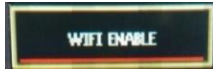
Figure 2: FiberChek Microscope

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 the iPhone via **WI-Fi**:
5. Enable WI-Fi on the iPhone.
6. Tap FiberChek WI-Fi SSID to connect.

7. 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 Fiber Probe Barrel Assembly. Note: Some tips connect directly to the probe, without a barrel assembly. Consult the *VIAVI Tips & Adapters Selection Guide* for more information.

Figure 3: WI-Fi networks

Set up the FiberChekMOBILE app:

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

![eye icon]

   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/.

![clipboard icon]

   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

Figure 4: Live Inspection View

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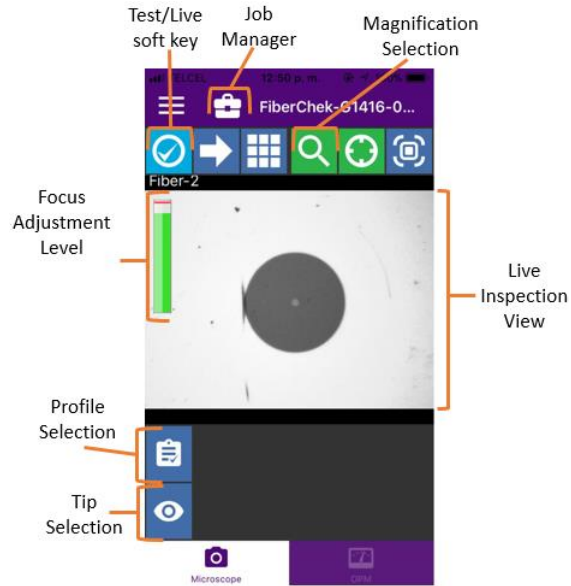
3. There are 3 ways to run the fiber inspection test:

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

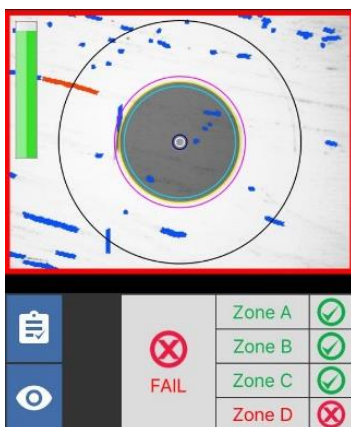5. If the **test passes**, you are ready to **Connect**.
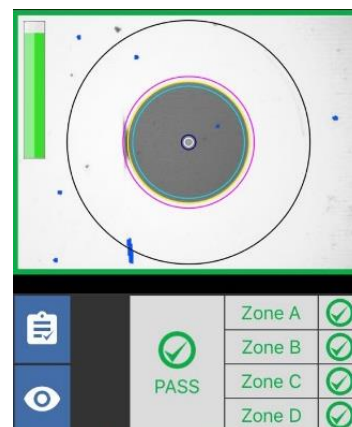

Figure 5: Failed Test

Figure 6: Passing Test

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