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WFM-110 WIRELESS FIBER INSPECTION MICROSCOPE WITH APC ADAPTERS INSTRUCTION MANUAL

Foreward

Thank you for purchasing our wireless fiber end face inspection microscope. Please read this manual carefully before using this device.

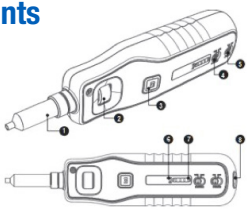
Warning

- Warranty is invalid if the device is dismantled for maintenance or transformation without authorization.
- Avoid using this device in a high temperature environment or near a heat source.
- Avoid using this device in a high magnetic field or high radiation environment.
- Avoid using this device in a high humidity environment for a long period of time.
- Make sure to use the provided power adapter to charge the device.
- Please turn off the power supply when the product is not in use for battery preservation.

Product Introduction

This portable WIFI inspection probe acquires real-time images of fiber end faces on smart devices. It can also capture and save images, with up to 200x magnification, through the FiberCheck app.

Included Components



1	Tip (changeable)	**5**	Power switch
2	Focus Adjust	**6**	USB Port
3	Capture Button	**7**	Power level
4	Wifi/USB switch	**8**	Wifi Status

Included Components



Rugged Carrying Case

Charger

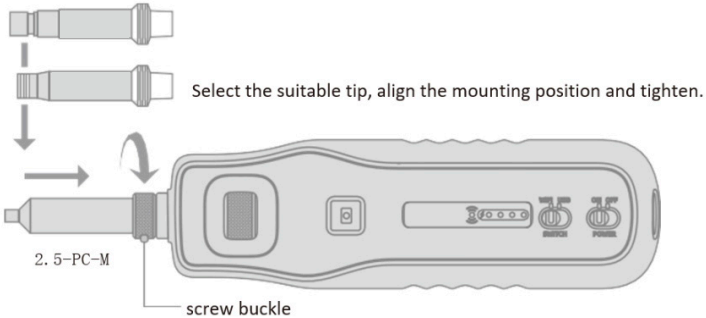
USB-C Cable

(4) Adapters:
-2.5 mm SC/FC APC Female
-1.25 mm LC APC Female
-1.25 mm LC APC Male
-2.5 mm FC/SC/ST APC Male

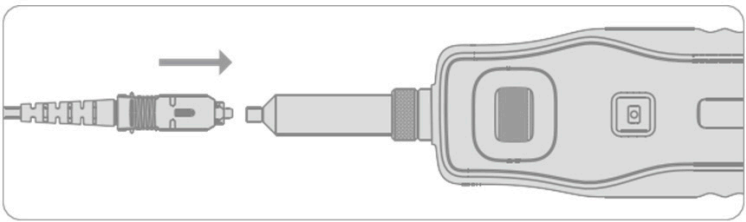
Specifications

ITEM	SPECIFICATION
Magnification	200X
Lens Resolution	0.75um
Image Resolution	1280 X 1024
Focus Type	Manual
Focus Stroke	4 mm
Data Port	TYPE-C
Protocol	WIFI/USB2.0
Wifi Range	100 m
Battery Capacity	3000 mAh
Recharging	3h
Endurance	3h
Working Temp.	-20°C~+50°C

Installing Tips on Probe



Inspection



1. Turn on the power to the device.
2. If using a smart phone, move the switch to “Wifi” on the WFM-110, and run the app.
3. Insert the connector you want to inspect.
4. Adjust the focus as needed to make the image clear.
5. Press the Capture Button to take a screenshot of the image.

CAUTION: During inspection, try to keep the connector and lens on the same horizontal plane. Try not to shake the device nor the connector to avoid damaging either.

App Instructions

FiberCheck

iOS Download

Android Download

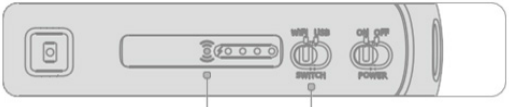
Introduction

Please scan the QR code above for a link to the Android FiberCheck app.

The FiberCheck app can also be downloaded on iOS via the AppStore for Apple devices as well

Preparation

1. Download and install the FiberCheck app on your Android or Apple device.
2. Connect to the Wifi Network by setting the switch to Wifi on the WFM-110.
   a.) The red LED will flash, indicating connectivity.



   b.) Wifi indicator will flash

   Make sure to switch to Wifi

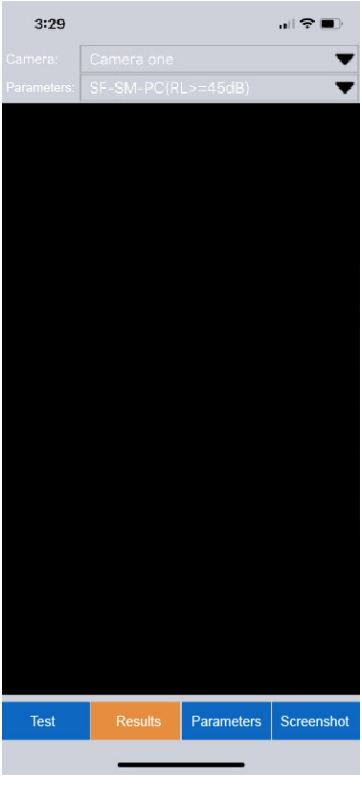
3. Turn on the Wi-Fi on your Android or Apple device.
   a.) On your device, find the connection named “TQ_XXXX” and connect to it.
   b.) **NOTE:** “TQ” is WFM-110’s network’s unified characters, and the following four digits “XXXX” are random numbers to distinguish different devices in the same network.
4. Enter the FiberCheck app on your phone, and it will display the live video feed from the WFM-110!

Software Operation Guide

1. Camera & File Path ->

2. Image Display ->

3. Function Buttons ->



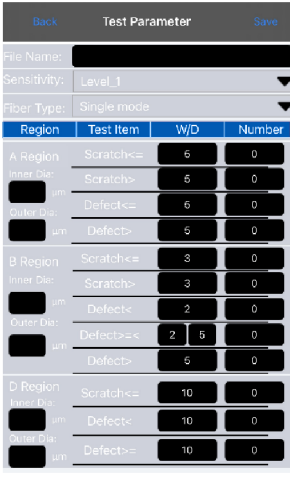
Functions

1. **Camera**
   a.) Here you can choose between two camera options: Camera 1 and Camera 2.
      i. Camera 2 has a different image algorithm for specific requirements.
      ii. The default setting is Camera 1.
2. **File Path**
   a.) Here you can change the parameters that the connector is being tested to.
      1. There are several default parameters, and additional parameters can be added using the “PARM” or “Parameter” function.
3. **Test**
   a.) Press the Test button to begin the Test to the set Parameters.
4. **Results**
   a.) After performing the test, click the Results button to see the results of the test.
   b.) In this menu, you can also Save the test results directly to your phone.
      i. For iOS users, the photos will automatically be saved in your Photos.
5. **Parameters**
   a.) In this menu, you can select the Parameters you want to use for testing or to create new Parameters.
   b.) To create new Parameters, click the “New” in the top-right corner and enter the specifications of the fiber and the threshold limits.
6. **Screenshot**
   a.) Press the Screenshot button to take a screenshot of what your phone is currently displaying.

How To Use

After completing the steps in the Preparation section of this manual, follow the steps below:

1. With the app open, and the phone connected to the Wifi of the WFM-110, set the Parameters needed by clicking on the Parameters button on-screen.
   a.) To set New Parameters, press “New” in the top right corner of the screen.
   b.) The screen will then change like below, where you can input the thresholds and parameters of the fiber:

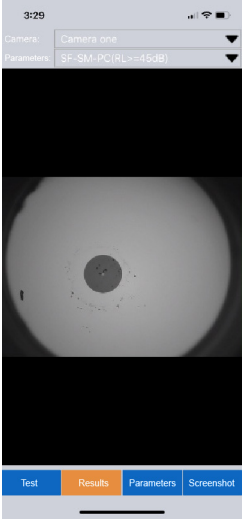


   c.) Press “Save” in the top right corner of the screen to save the parameters.
   d.) To view the default or saved parameters, enter the Parameters menu, press the red button, and press “Check”.
      i. **NOTE:** Default parameters cannot be edited.

(Continued on next page)

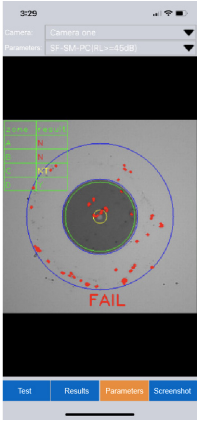
2. Choose the parameters for the fiber being tested.
    a.) Press the black arrow in the “File:” section to select the parameters for the test.
3. Connect the fiber you want to test to the WFM-110 microscope.
    a.) The following adapters are included:
        I. 2.5 mm SC/FC/ST APC Male Adapter
        II. 1.25 mm LC/MU APC Male Adapter
        III. 2.5 mmFC/SC/APC Female Bulkhead Adapter
        IV. 1.25mm LC/APC Female Bulkhead Adapter

    b.) **NOTE:** Be sure to put the correct adapter on the microscope before connecting the fiber cable.

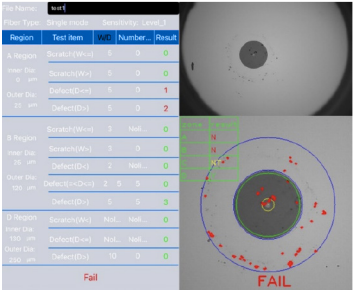


4. After connecting, if the screen is blurry, adjust the focus using the wheel on the WFM-100 until the image is clear.
    a.) **NOTE:** If the image is fuzzy or blurry, the test will fail.

5. Press the camera button on the WFM-110 to run the test.
6. The test should instantly be done, showing results like below if it failed:

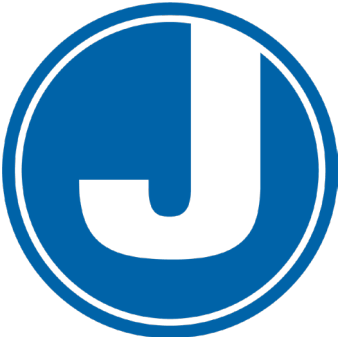


7. Press the “Results” button to view the results of the test.



a.) Enter a File Name for this test to save the results as an image.

b.) **NOTE:** Files saved on iPhones will be saved directly to the “Photos” application



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