OCI-20BN-W

User's Manual

Shineway Technologies, Inc.

1. OCI-20BN-W Fiber Probe

Keeping the previous advantages of quick check, the new OCI-20BN-W fiber probe is designed to be smarter and more power saving. It can have both Wi-Fi and USB connection to help end face image quickly sent and shown on the smart phone either in Android or Apple system. User can check the end face anytime anywhere with ease. OCI-20BN-W can be applied widely in most regular inspection situations, e.g. connectors in panels or individual patch cord. It can easily satisfy user needs.

1) Power On/Off & Quickswitch (WIFI/USB) Button: hold the key for 3s to turn on or off the device; Double click to switch the mode between Wi-Fi and USB.
2) Light Indicator (WIFI/USB): blue light represents the Wi-Fi mode, green light represents the USB mode.
3) Reset: hold and press the key for 5s or above to restart the device.
4) Focus Wheel: flip the wheel back or forth to adjust the focus.
5) Capture: press the key to take a snapshot of the connector.
6) Illuminator: emergency use in insufficient lighting environment
7) Retaining nut: lock the adaptor to secure the location.
8) Interchangeable tip: various tips are available for inspecting various connectors.
9) Batteries Indicator: light will be on for 5s once illuminator is pressed to show the battery status. When the battery level is too low, the light will flash
10) Illuminator power: turn on or off the illuminator.
11) Micro-USB Port: to connect to PC or mobile via USB cable; for charging when the power is too low.
12) Light indicator (Charging): red light represents charging status, green light represents the fully-charged status.

FiberEye2 APP

FiberEye2 is the mobile software application for Android system. It can capture, display and record the fiber end-face image on the phone with ease.
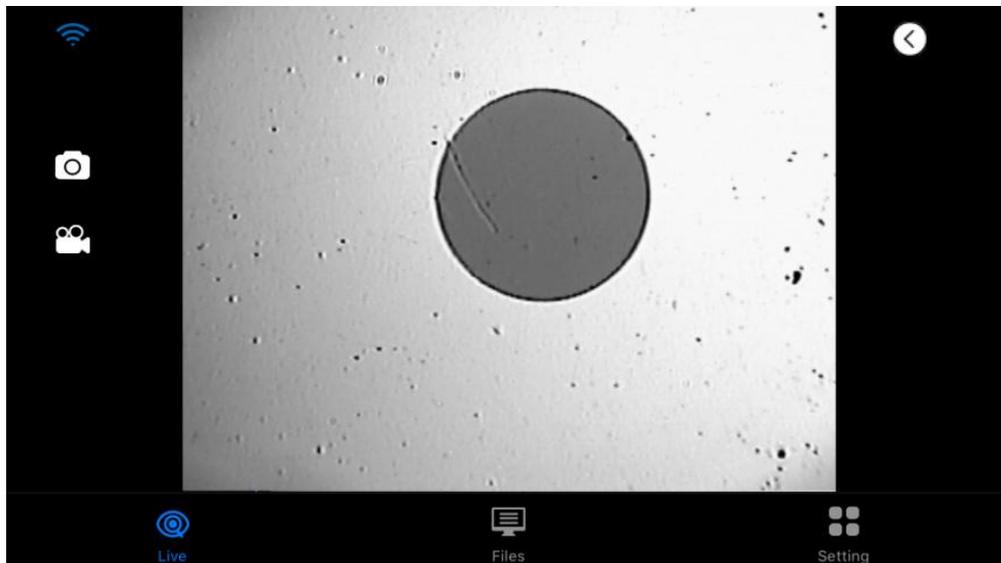
2. Highlights

1. Precise cone-shaped tip to reach 98% alignment consistency.
2. Single way re-cycle focus wheel to have efficient focus control.
3. Image capture button for operation convenience.
4. 400× Magnification, better than 1um resolution.
5. Suitable for all types of connectors test: APC, UPC, MTP and more.
6. Clearer imaging to figure out dents/scratches/dots etc., within seconds.
7. Compile with types of OS: Windows/Linux/Mac.
8. Wi-Fi and USB mode quick switching with Quickswitch™.
9. User-friendly design: various light indicators showing operating mode and status; illuminator to allow work in dim environment.
10. Compile with　CE/CEM and ROHS standards

3. APP installation and use -Android system

App installation

Please use the App provided for Android system. Once ready, it needs to switch to inner Wi-Fi powered by probe to operate. The probe Wi-Fi starts with initial cases "FE" and default password is 12345678. If connection fails, an alert message will be shown on the device.

Note

➢ It will take around 6s or more for Wi-Fi connection which is a normal phenomenon.
➢ When power on the probe and open the app on your Android phone, the app will auto connect with the probe, the app will try some times, if time cost too long you can connect the Wi-Fi channel manually.
➢ When batteries are too low, please make sure to charge properly and the power key can also help check the batteries status.
➢ The probe will get heated after Wi-Fi connection which is a normal phenomenon.
➢ Original 3G/4G network will be closed automatically after the Wi-Fi connection.
➢ Please allow all the below permissions when the app give alert, user also can manually approve the permissions in Android system as below image.
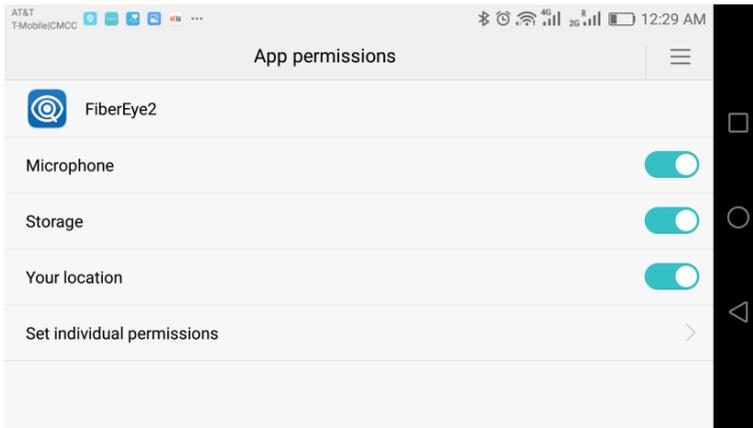
Record

The record files, including video and images, can be checked under the files selection.

Click the file can get the details of file size, name and type easily, slide left can get the record deleted if necessary. Drop the refresh operation to update the list.
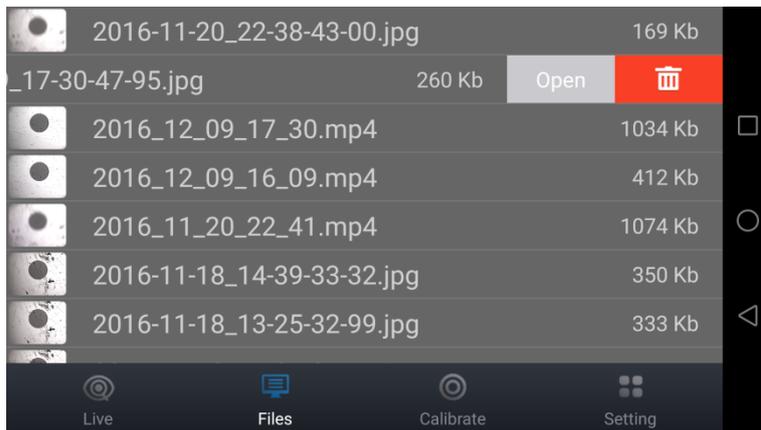
User can also share the file with the third party software to access external network.

Adjustment

Click the upper right corner, three functions will be shown including Brightness adjustment, Contrast adjustment and Calibrate function.
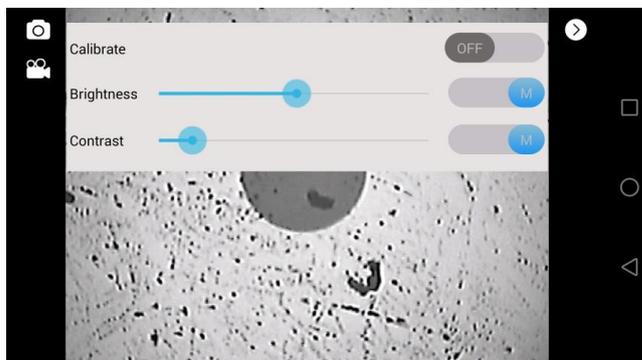
Calibrate function to help easily locate the end face within different areas for checking.

Brightness to adjust the device brightness automatically or manually.

Contrast to adjust the device contrast automatically or manually.

Reset

User can change the Wi-Fi password under setting selection as below image. If the password is forgotten, user can also click the "reset" button to set the default password 12345678. After resetting, please restart the app to activate the changes. Same function can also be implemented via reset key on the probe.
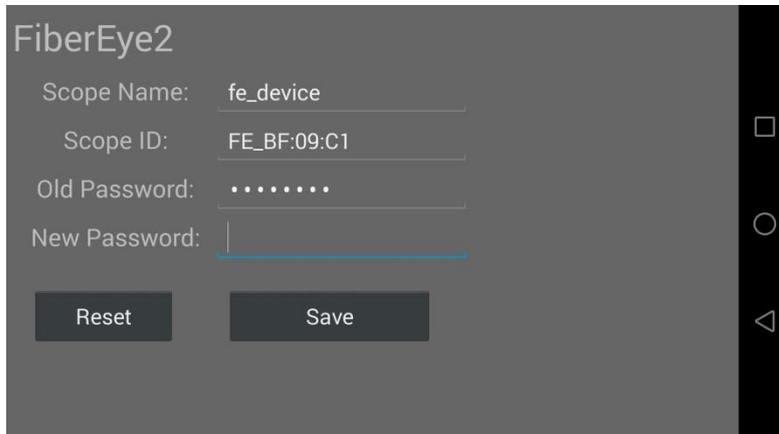
4. USB Cable Use

OCI-20BN-W can also work with USB cable connection, besides the Wi-Fi connection. User can switch between the modes through Quickswitch^{TM}.

Double click the power button of the probe to switch between the modes. When the WIF/USB light turns green from blue, it indicates a normal USB signal output, which afterwards can be connected to mobiles or other PC for checking. USB cable connection mode supports multiple operating systems, including Windows, Linux, Android and Mac OS.

Software

The fiber face viewing software FFV is offered on Windows system as the professional viewing software.

The app named UsbFiberEye is offered on Android system as the professional viewing software, but it's not guaranteed to work on all the android models.

Fiber Face Analysis

The fiber face analysis software FFA can be used to analyze the fiber end face image on Windows platform, it can have dirt, defects and scratches on the end face measured and recorded with pass/fail judgement. The latest version is 5.0, for more details, user can visit the company website for more information.

Interchangeable tips

To mate different connectors, various tips are available and interchangeable. Firstly loosen the retaining nut. Then remove the tips along the lens bar. Lastly make the change and tighten back the retaining nut.

Note: try to avoid impacting the lens bar when making changes to avoid possible damage.

5. Configuration

Items	Description	Quantity
OCI-20BN-W	Probe supports 2.4GHz Wi-Fi channel and USB2.0 wire connection	1pcs
Standard tips	SC-PC-F FC-PC-F LC-PC-F	1pcs each
USB cable	USB to Micro USB cable, for charging or data translate	1pcs
Soft case	Contain the device and kits	1pcs
Application	Android Support	
USB AC adapter(optional)	5V 1A charger	1pcs
USB adapter(optional)	USB-C to USB-A adapter. Applicable for USB2.0 and USB3.1 OTG smart devices	1pcs
Arm bag(optional)	Outdoor arm strap holding mobile phone	1pcs
Software(optional)	EFD fiber end face analysis software, free upgrade	

6. Specification

Items	Values
Magnification	400X
Resolution	<1um
Field of View(mm)	X: 0.3487 Y: 0.2632
Light source	Blue LED
Focus Way	Single-way
Focus time	1~5 s
Alignment	>98%
Capture button	Available
Quick switch	Available, switch between Wi-Fi and USB

Connector	Micro USB
Connectivity	Wi-Fi 802.11 & USB2.0
Wi-Fi Frequency	2.4GHz
Smart device OS compatibility	Android 4.4 and above
Voltage	5V
Power support	3400mAh Li-ion
Working time	$\geq$ 5h
Recharge time	$\leq$ 5h
Color	Black
Weight	175g(0.4 lb)
Distance range	20m
Dimension	19x 5x 3cm ($7^{1/2}$x 2 x $1^{1/5}$ inch)
Working/Storage temperature	-10℃ ~ 50℃ / -20℃ ~ 60℃
Humidity	<90% (Non-condensing)

7. Maintenance

Tips:

✓ Please clean the connector before the inspection if necessary.

✓ Please clean the device regularly to prevent any dust and debris from previous connectors to impair the inspection.

✓ Please keep the device in a clean and dry environment.

✓ Please avoid unnecessary impact and vibration.

✓ Please turn off the power immediately if any fluid gets into the device, make it totally dry before power it on again.

Charging

✓ The LED light at the end of the probe is on to show all charging status.

✓ For the first time charging, please make sure to wait for a few hours till the LED light turns green from red to make sure a full charge. Battery protection circuit is embedded to protect from over-charge or over-discharge.

✓ The charging time depends on multiple factors as working or storage temperature, so please make sure it can be charged under proper environment.

✓ When the probe is connected with power or USB cable, it can still be choosen to

work in WIFI mode.

✓ When the probe is connected with USB cable to a PC, it can also be charged, at the rate of 500mA.

8. Troubleshoot

Please check the table below for solutions to the common problems

Problem	Solution
No image seen on the display	✓ Make sure the probe is connected with Wi-Fi. ✓ Make sure the probe is working in the Wi-Fi mode. ✓ Make sure FiberEye2 is properly connected with the probe, if not, please close the FiberEye2 and reopen it again.
No image seen on the display even with Wi−Fi connection	✓ If the temperature of probe is too high, please cool it down first. ✓ Make sure the batteries are fully charged. ✓ Please reconnect the device if there's still problems.
Flickering or abnormal image in real-time video mode	✓ Please check if batteries are too low to display properly. ✓ Please close the FiberEye2 and reopen it again.

9. After-sales service

Please check our web site (**www.shinewaytech.com**) for updates to this manual and additional application information. If you need technical or sales support, please contact local **Shineway Technologies** Customer Service.

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