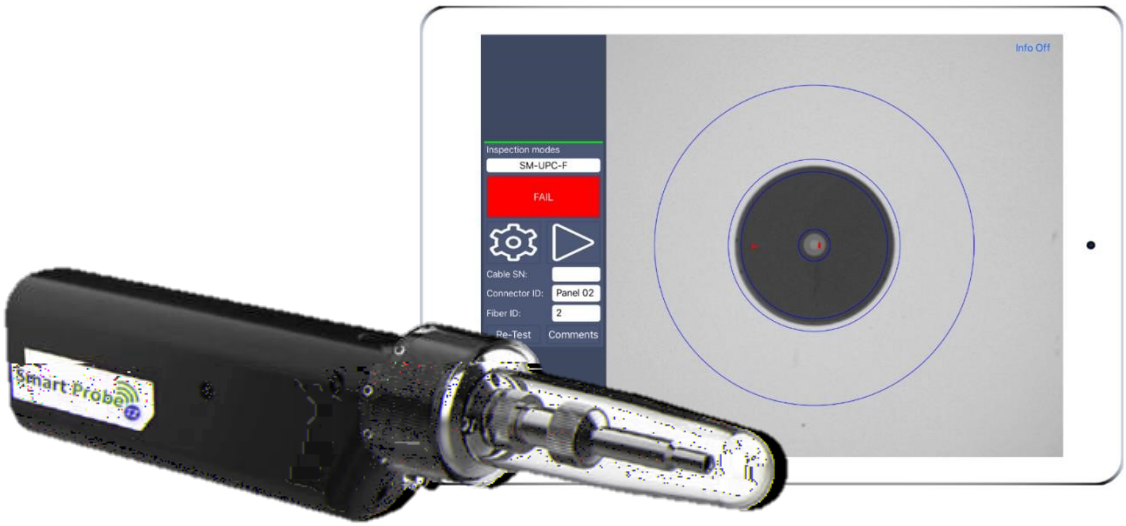
SENKO
SENKO GROUP® Advanced Components

Date
Doc Number

Vue3 User Manual

Smart Probe
for Fiber Inspection



Your Source for Optical Interconnect Solutions

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1. Read Me First

2. Safety Information

CAUTION:

DISPOSAL

3. Certification

FCC

K E

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
CAN ICES-3(B)/NMB-3(B)

L

ARIB T66 certified. Registration Number **432/33739** .
Japanese translation of this user manual will be supplied.

E G

R&TTE:
This device complies with the tests and standards as stipulated in the R&TTE Directive.

RF: ETSI EN 300 328 V2.1.1 (2016-11)
EMC: EN 62311:2008
Draft ETSI EN 301 489-1 V2.2.0 (2017-03)
Draft ETSI EN 301 489-17 V3.2.0 (2017-03)
LVD: EN 62368-1:2014

1

RCM registered.

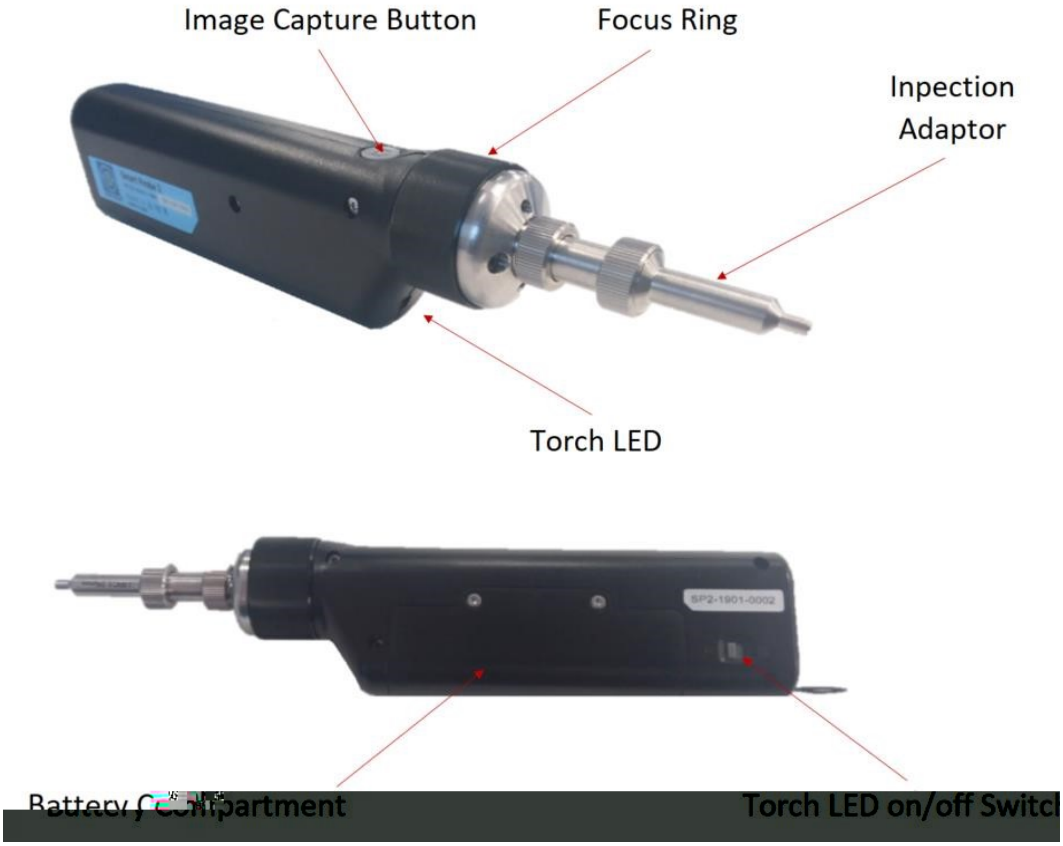
EMC Regulations

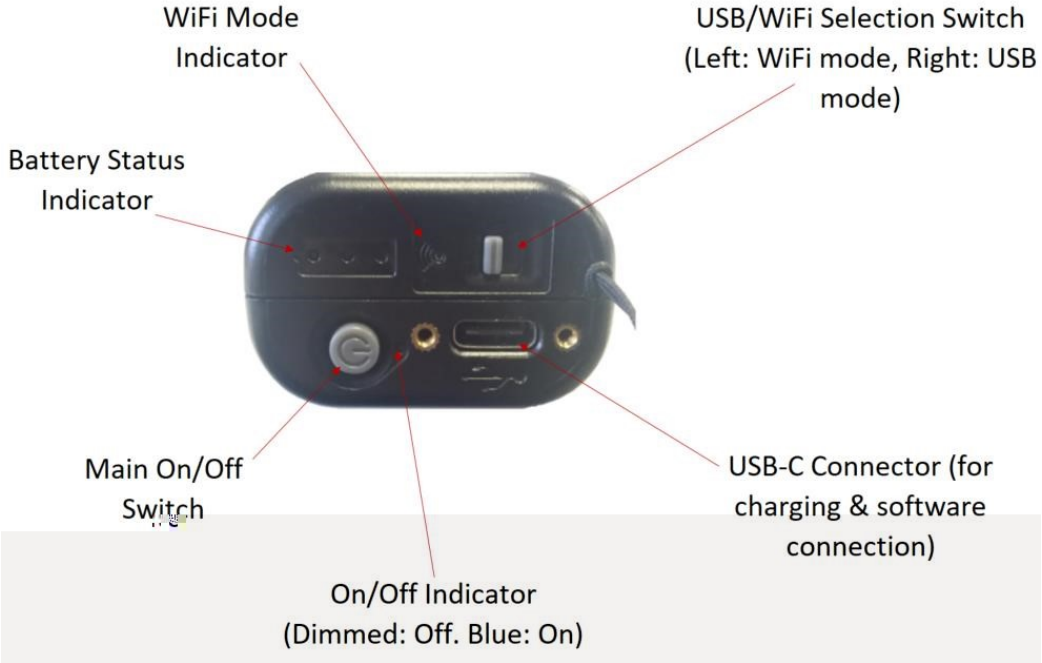
4. K

The Smart Probe 2 Inspection Probe is a portable video microscope with an automated IEC 61300-3-35 End-Face Inspection App, used to inspect fiber ends. The microscope can be connected with a WiFi or USB connection to platforms or with a WiFi connection to mobile smart devices (Android or iOS).

5. J

5.1 Features





5.2 C

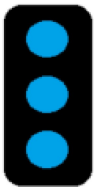
Smart Probe 2	
Magnification	200x/400x
Field of View	512 x 384 um
Focus method	Manual
Communication Interface	Wifi802.11 / USB 2.0
Power	Built in Lithium battery 2hr charge time
Operating Temp.	-10℃ ~ 50℃
Storage Temp.	-20℃ ~ 50℃
Relative humidity	95%
Weight	188g inc battery
Size	195(L) x 40(W) x 25(H) mm
Software Platforms	Android 4.2 & above, iOS 9.3 & above

Accessories	
Tips	1.25m male, 2.5mm male
Wrist strap with protective cap	1 set
USB charger with international adaptors	1 set
USB cable	Type A Type C
Tip storage case	Up to 5 tips
Carrying case with waist strap	1 set
QA certificate	1 set

6. D

803 E

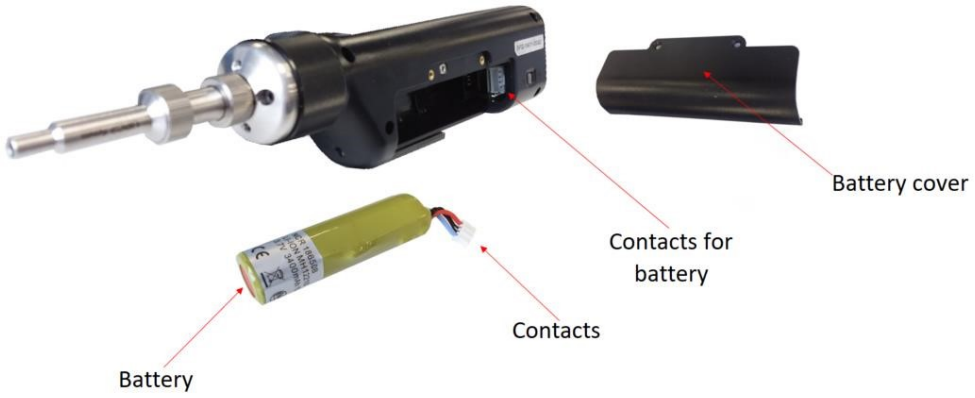
Connect the probe to the supplied USB charger, or to a USB port of a PC using the supplied USB cable. The (comprises of 3 white LEDs) shows charging status as below.

Battery Status Indicator Pattern		Meaning
		

804

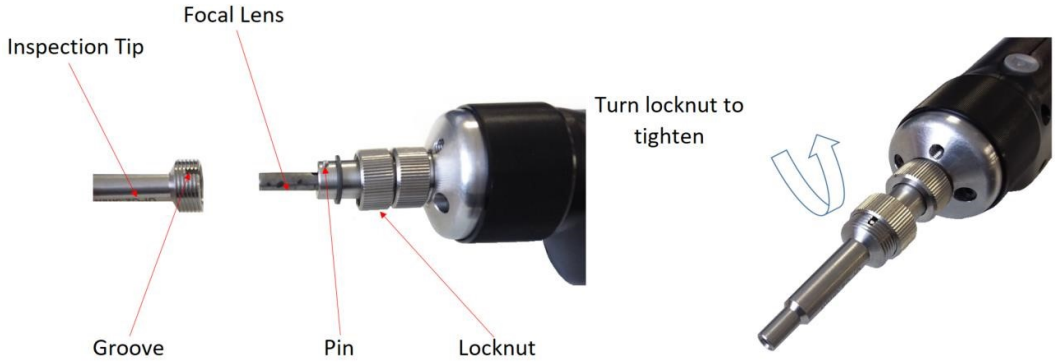
The instrument is powered by a specific built-in Lithium battery which can be replaced as shown below. **G M** .

Remove 2 screws, using a special screw driver to open battery cover.
Pull out battery from the battery compartment.
Insert new battery at an angle and plug the contacts of the battery into the connector in the correct orientation.
Place battery cover and screws back on the probe.
Charge battery.



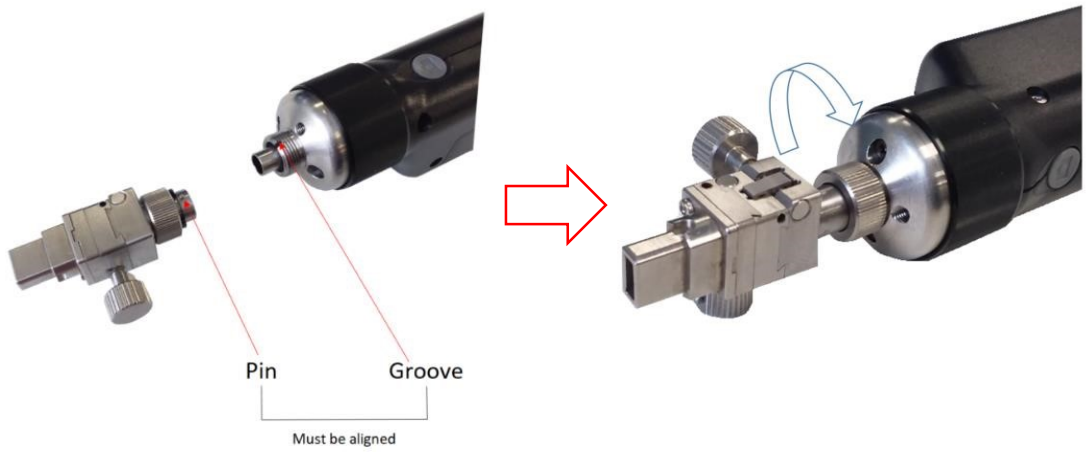
8.5 K K

Place inspection tip over focal lens, make sure that the pin is aligned into the grove, tighten locknut by turning it ANTI-CLOCKWISE as shown below.



K

Remove focal lens holder. Place MPO inspection tip on the probe, make sure that pin on the inspection tip is aligned into the groove. Tighten locknut by turning it CLOCKWISE as shown below.



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806 K K

8.07 GF

The built-in Torch LED can be turned on to assist works in dark or low light conditions.
To turn light on, flip Torch LED **1** Switch to ✱.

9.02 F K

9.03

Android Lollipop 4.2 & above.

7.2 Getting Started

9.05 H /

SSID "

"

Example "_____"

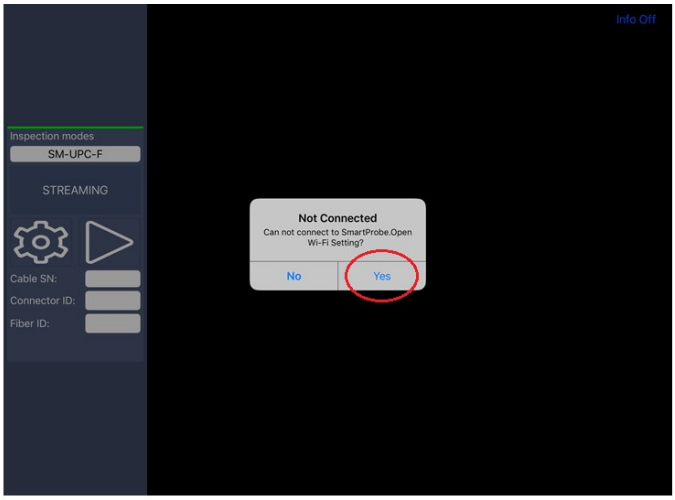
- **SP2**
- **1901**= Manufacturing 'Year' and 'Month'.
- **0002**

To connect the wireless probe

1. **On/Off**

2.

3.



4.

Wi-Fi Password

8.0 Software Overview

8.1 Functionality Diagram

Inspection Modes:

see below

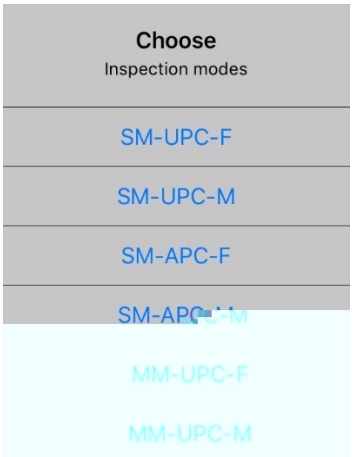
Inspection Mode	Connector Types
SM-APC-M	
SM-APC-F	
SM-UPC-M	

MM-UPC-M	
MM-UPC-F	

Please note:

To select inspection mode:

Inspection Mode



<u>Info Panel On/Off:</u>

To hide info panel

on/off

Process Button:

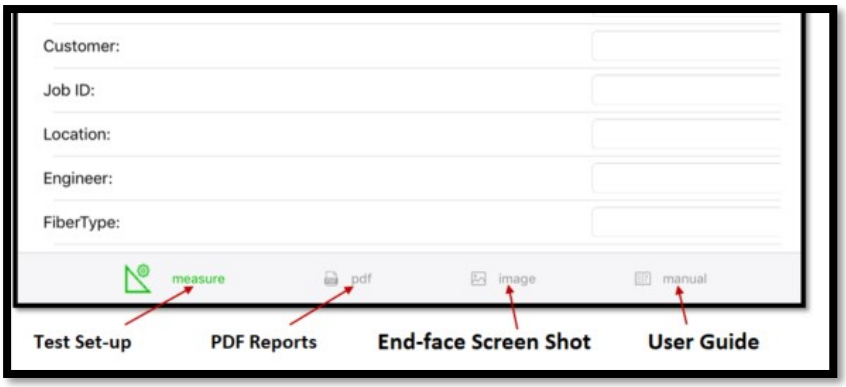
To trigger PASS/FAIL ana

***Info Panel*:**

Main Screen

Results					
Zone	Zone Diameter	Criteria	Threshold	Count	Result
A:Core	0µm to 25µm	0 ≤ size < 0	0	0	Pass
B:Cladding	25µm to 115µm	0 ≤ size <2	No Limit	0	Pass
		2 ≤ size ≤ 5	5	0	Pass
		> 5	0	0	Pass
C:Adhesive	115µm to 135µm	No Limit	No Limit	0	Pass
D:Contact	135µm to 250µm	0 ≤ size < 10	No Limit	0	Pass
		> 10	0	0	Pass

***Settings Menu*:**



Test Set-up

PDF Reports

Images:

User Guide

In this section you can access ‘User Guide’ and support.

Date

Standard Report Template

The standard report structure

General & Fiber information

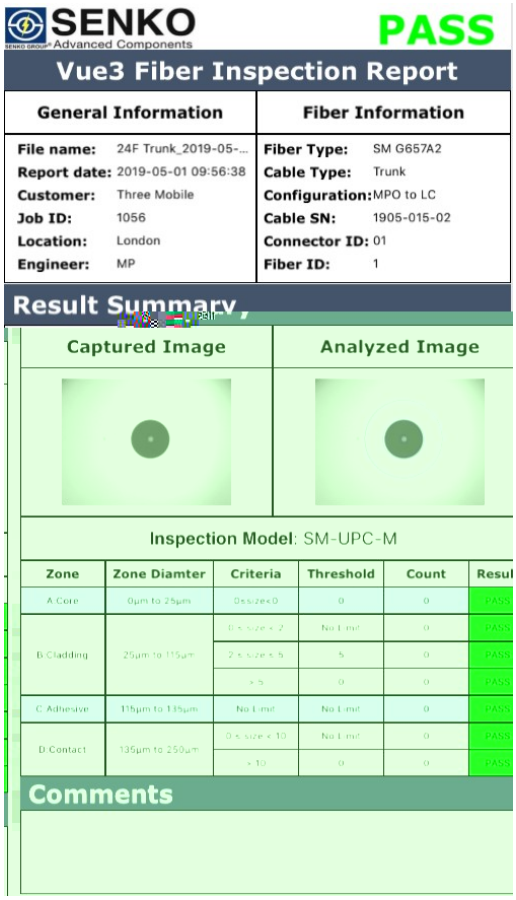
This section of the report provides a summary of the test 'Set up'

Captured & Analyzed Image

Test Summary Table

Comments

This section contains 'comments' entered during testing.



SENKO Advanced Components — PASS

Vue3 Fiber Inspection Report

General Information		Fiber Information	
File name:	24F Trunk_2019-05-...	Fiber Type:	SM G657A2
Report date:	2019-05-01 09:56:38	Cable Type:	Trunk
Customer:	Three Mobile	Configuration:	MPO to LC
Job ID:	1056	Cable SN:	1905-015-02
Location:	London	Connector ID:	01
Engineer:	MP	Fiber ID:	1

Result Summary

Captured Image | Analyzed Image

Inspection Model: SM-UPC-M

Zone	Zone Diamter	Criteria	Threshold	Count	Resul
A:Core	0μm to 25μm	0≤size<0	0	0	PASS
B:Cladding	25μm to 115μm	0 ≤ size < 2	No Limit	0	PASS
		2 ≤ size ≤ 5	5	0	PASS
		> 5	0	0	PASS
C:Adhesive	115μm to 135μm	No Limit	No Limit	0	PASS
D:Contact	135μm to 250μm	0 ≤ size < 10	No Limit	0	PASS
		> 10	0	0	PASS

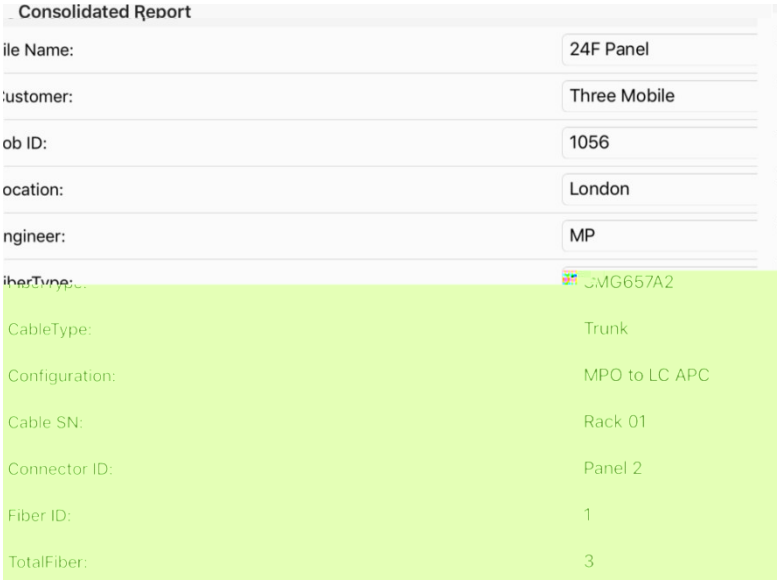
Comments

9.2 Consolidated Reporting

To activate consolidated report:

Main Menu, tap 'Settings' button.
Select Consolidated in the '**Report Layout'**

Under heading '***Consolidated Report***' within the **Test Set-up Menu**



Please note:

(a) ***, Connector ID, Fiber ID & Total Fibers***

(b) Total Fibers

(c) File name

Consolidated Report Template

Consolidated report structure

General & Fiber information

This section of the report provides a summary of the test 'Set up'

Inspection Summary

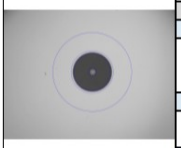
Contains the following information:

Fiber ID
Cable SN and Connector ID
Date and Time
Test Results Table
Inspection Result
Comments Section

Vue3 Fiber Inspection Report

General Information		Fiber Information	
File name:	24F Panel_2019-05-...	**Fiber Type:**	SMG657A2
Report date:	2019-05-01 10:13:31	**Cable Type:**	Trunk
Customer:	Three Mobile	**Configuration:**	MPO to LC APC
Job ID:	1056	**Cable SN:**	Rack 01
Location:	London	**Connector ID:**	Panel 2
Engineer:	MP	**InspectionMode:**	SM-UPC-M

Inspection Summary

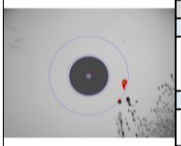


Cable SN: Rack 01 **Connector ID:** Panel 2 **Date:** 2019-05-01 **Time:** 10:10:47 — **FIBER 1**

Zone	Zone Diamter	Criteria	Threshold	Count	Result
A:Core	0µm to 25µm	0≤size<0	0	0	PASS
B:Cladding	25µm to 115µm	0≤size<2	No Limit	0	PASS
		2 ≤ size 5	5	0	PASS
		> 5	0	0	PASS
C:Adhesive	115µm to 135µm	No Limit	No Limit	0	PASS
D:Contact	135µm to 250µm	0 ≤ size 10	No Limit	0	PASS
		> 10	0	0	PASS

Comments:

PASS



Cable SN: Rack 01 **Connector ID:** Panel 2 **Date:** 2019-05-01 **Time:** 10:11:43 — **FIBER 2**

Zone	Zone Diamter	Criteria	Threshold	Count	Result
A:Core	0µm to 25µm	0≤size<0	0	1	FAIL
B:Cladding	25µm to 115µm	0≤size<2	No Limit	0	PASS
		2 ≤ size 5	5	0	PASS
		> 5	0	1	FAIL
C:Adhesive	115µm to 135µm	No Limit	No Limit	0	PASS
D:Contact	135µm to 250µm	0 ≤ size 10	No Limit	1	PASS
		> 10	0	1	FAIL

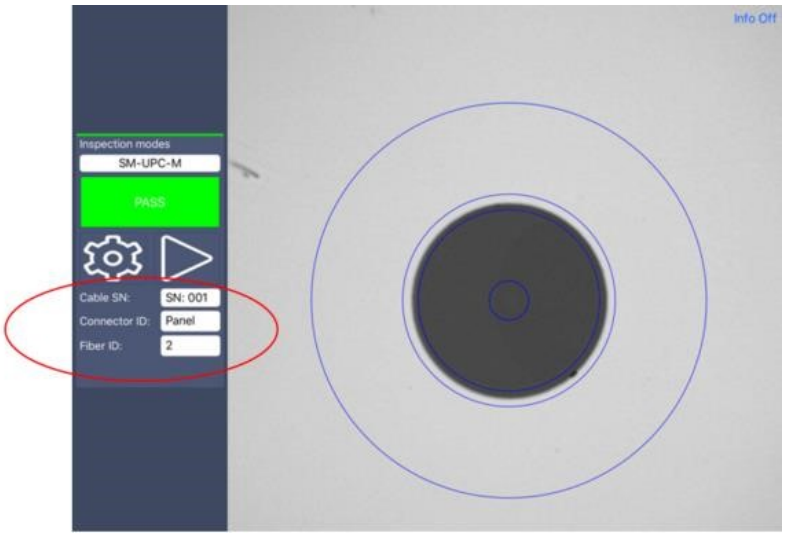
Comments:
Fiber end face cleaned.

FAIL

Cable SN: Rack 01 **Connector ID:** Panel 2 **Date:** 2019-05-01 **Time:** 10:13:31 — **FIBER 3**

Please note ***Cable SN*** ***Connector ID***

see below



9.3 Create a Report Manually

To save files manually:

Main Menu, tap 'Settings' button.
Select '**Manual**' in Archiving Method.

9.4 Activate Automated Report Creation

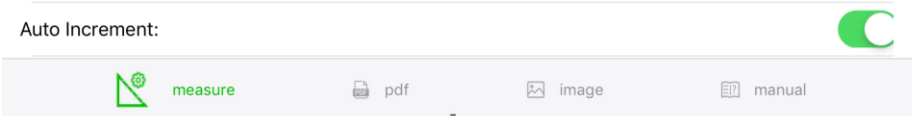
To save files automatically:

Main Menu, tap 'Settings' button.
Select '**Auto**' in Archiving Method.

9.5 Activate Auto Increment

To enable auto increment:

Main Menu, tap "**Settings**" button.
At the bottom of the Main Menu, tap "**Auto**".

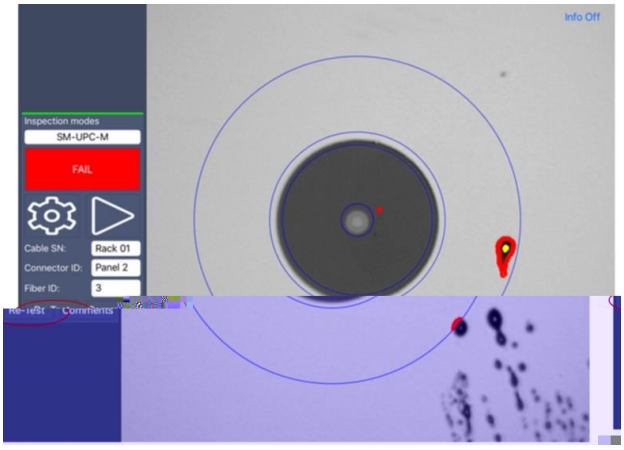


9.6 Re-Test Function

he ‘Fiber ID’ will not increase until you ‘PASS’ result
you have an option to add & save ‘comments’ on the report.

To retest a fiber

connector back into the probe, tap “**Re-Test**” button.



Please note:

9.7 Comments

When you get a ‘FAIL’ test result, the application allows you to save comments in the

To add comments:

Main Screen, tap ‘Comments’ button.

‘Comments Section’.
Select ‘**Yes**’ to save the report or ‘**Cancel**’.

10. Inspecting Fiber Ends and Analyzing Captures

To inspect fiber end face:

'**focus bar**' as reference point. A green indicator shows that

Choose correct '**Inspection Mode'**

Optimize test configuration for your test, from the main menu, tap '**Settings**' followed by '**Test Set-up'**
In the 'Test Set Up' menu, pre select '**Report Layout**' and '**Archiving Method**'
Standard Consolidated report
File Name Customer Name Job ID Location Engineer Fiber Type Cable Type Configuration Cable SN Connector ID Fiber ID Total Fibers
'Auto Increment' according to your preference.
Return to the '**Main Menu'**
Press the '**Capture Button**' on the probe or tap '**Analysis Button**' to trigger

might want to use '**Re-Test**' function or add '**Comments**' on the PDF report

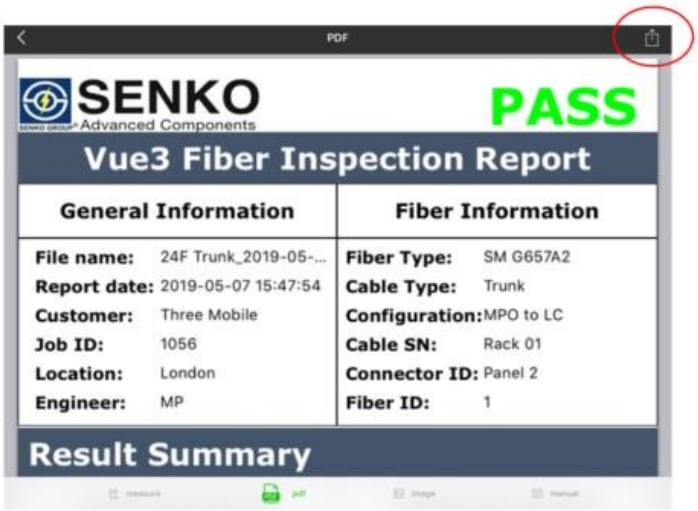
To view & analyze PDF reports, tap '**Setting Button**' followed by '**PDF Reports'**

11. Extracting Files

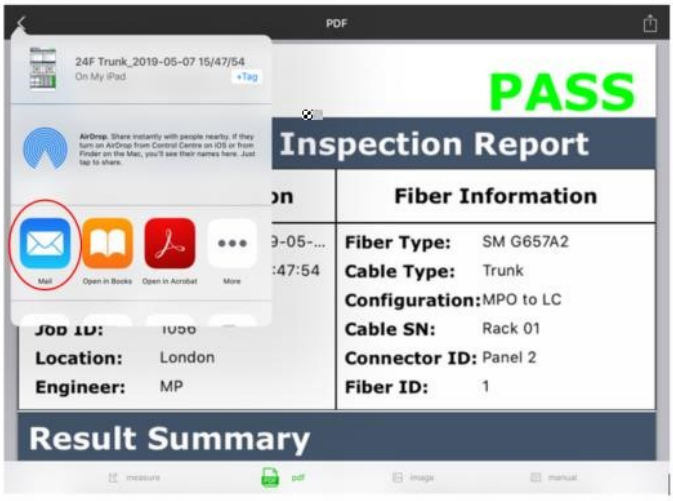
***To extract PDF reports or images*.**

Email

1. **Main Menu**, tap 'Settings'.
2. In Main Settings Menu, select '**PDF Reports**'.
3.
4. **see below**

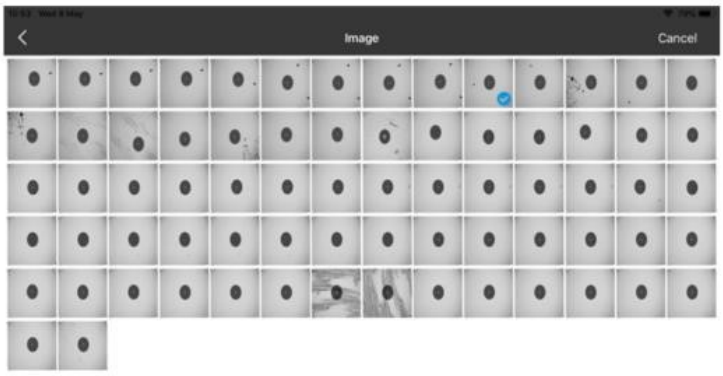


5. Select '**Mail**' option. The application will automatically upload your report/image onto you '**Email App'**

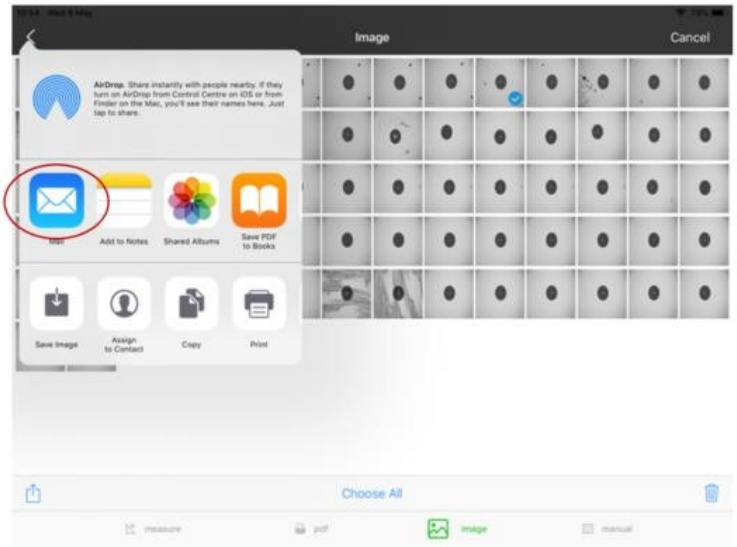


Email

1. **Main Menu**, tap ‘Settings’.
2. In the Main Settings Menu, tap ‘**Images**’.
3.



6. Select ‘**Mail**’ option. The application will automatically upload your report/image onto you ‘**Email App’**



USB

computer, select ‘**Smart Probe’**
Reports Folder
Smart Probe Folder
When files are selected, right click and select ‘**Copy**’.

click and select ‘**Paste**’.

12. Warranty

Senko Advanced Components. (“Senko”) warrants its Smart Probe range of

Limitations of Warranty

enko’s sole obligation shall be to repair or replace our product with its

13. Service and Support

To send equipment for service or repair

SENKO GROUP® SENKO Advanced Components

Date
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