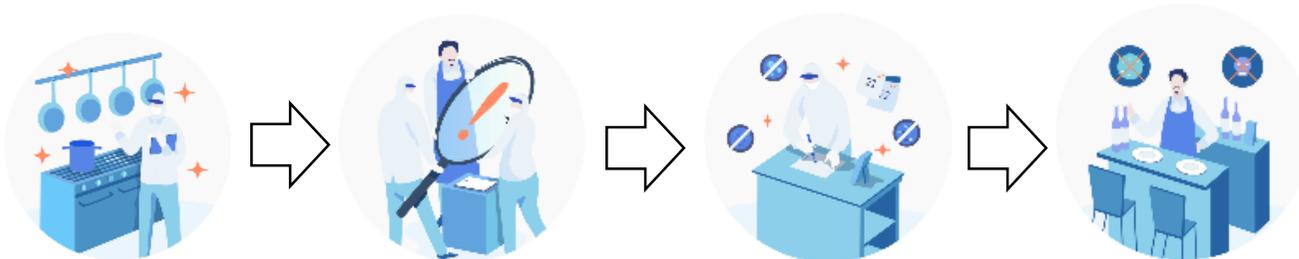


Ready-to-use “Lumitester” app - for hygiene management -

1. Measurement workflow via “Lumitester” app
- Smartphone, Tablet and/or PC -
2. Major functions supported by “Lumitester” app
3. Support function for the “standalone operation”
- STANDARD Mode & PLAN Mode -

Appendix: HELP & OTHERS



1. Measurement workflow via the “Lumitester” app

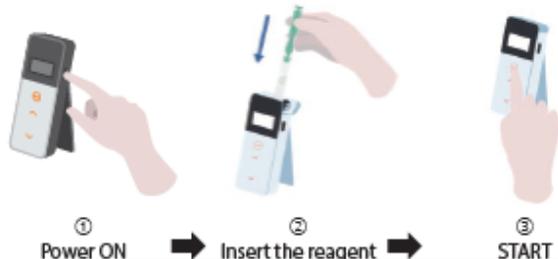


Ready-to-use app "Lumitester"

About Lumitester Smart

Measure!

Easy to use.



Swab and Measure
Simple Use

View!

The measurement result is easy to see.



The trend history of the test point is displayed to check the improvement effect at a glance.

The Application and PC Software are easy to set up and use.



Pass rate of past measurement data can be understood at a glance.



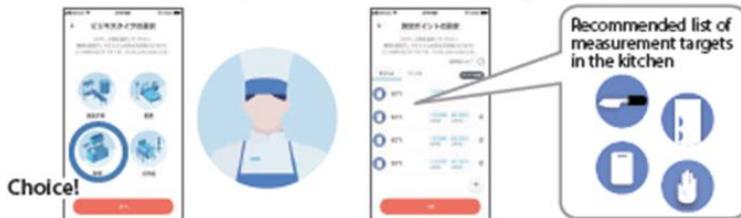
What was measured when, where, and by whom can be managed in combination with the measurement data.

Ready-to-use application "Lumitester"

Start!

Anyone can immediately start hygiene management.

It assists setup for the measurement target depending on the industry.



Select the measurement point and start measurement with the application.

The measurement result and

Save!

Data are stored in the cloud.



Data are stored in the cloud so there is no need to

The inspection results are saved in the cloud and read from smart devices.

Grouping allows data sharing by remote sites.

"Lumitester" app
for hygiene management



1. Measurement workflow via "Lumitester" app kikkoman

Set up via Smartphone, Tablet, and/or PC

1. Smartphone/Tablet connected via Bluetooth.

2. Select test point, then start.

3. Store the results for each test point.

4. Analyze the results.

2. Major functions supported by the “Lumitester” app



2. Major functions supported by the “Lumitester” app

Operate / Store / Analyze / Mode Select

- **Manage test points, benchmark values and groups.**
- **Several functions including measurement can be operated.**
- **Result data can be stored in the cloud.**
- **Data trend graph and pass rate chart can be confirmed as data analysis.**
- **Results data can be shared in remote sites.**
- **Test point information can be transferred into the Lumitester Smart unit via the app for standalone use. 2 types of test modes will be selectable.**

2. Major functions supported by the "Lumitester" app.

➤ Manage and setting test points, benchmark values and groups.

The screenshot shows the main dashboard of the Lumitester app. On the left is a sidebar menu with options: Test Point, Notifications, Analytics, Setting up tester, Share between users, Setting up, and Help. Below the menu is a 'Not connected' status for a device. The main area shows a list of test point groups under the 'Beverage & CIP' category. A red badge with the number '47' indicates the total number of test points. A white arrow points from the '47' badge to the 'Setting up Test Point' dialog box on the right.

Category	Value	Last Update
Nozzle	120	2020-03-13 18:35:52
Hand	25,567	2020-02-21 13:40:44
Conveyor	11,850	2019-04-12 15:54:34
Production	661	2018-12-19 15:19:59
Filling	3,631	2018-12-19 14:06:10
Tongs		
Tray		

Group of test points

The screenshot shows the 'Setting up Test Point' dialog box. It displays a 'Test Point Group' named 'Beverage & CIP'. Below this, there are two test point categories: 'Lower Filling Pipe' and 'Nozzle Filter'. Each category has two benchmark values: 'Benchmark value 1' and 'Benchmark value 2'. The 'Lower Filling Pipe' benchmarks are 50 and 100. The 'Nozzle Filter' benchmarks are 50 and 100. A red 'OK' button is visible at the bottom right. A white arrow points from the 'Setting up Test Point' dialog box to the 'Add Test Point' dialog box below it.

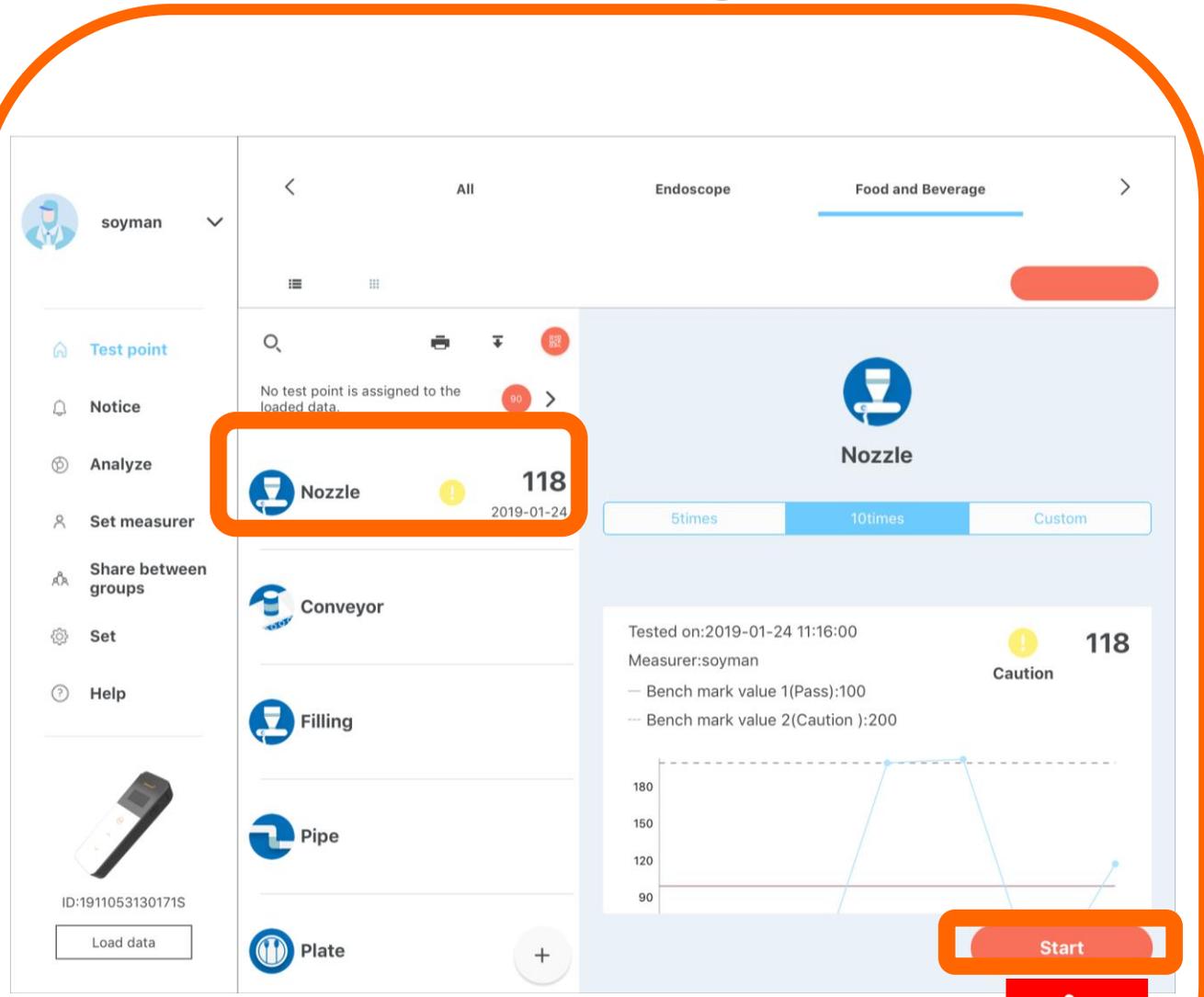
Benchmark settings

The screenshot shows the 'Add Test Point' dialog box. It prompts the user to 'Select an icon of the Test Point you want to add. Recommended benchmark value is predefined.' A grid of icons is displayed, including: Hand, Cutting board, Knife, Fridge handle, Sink, Nozzle Filter, and Upper filling pipe. A red 'OK' button is visible at the bottom right. A white arrow points from the 'Add Test Point' dialog box to the 'Group of test points' screenshot on the left.

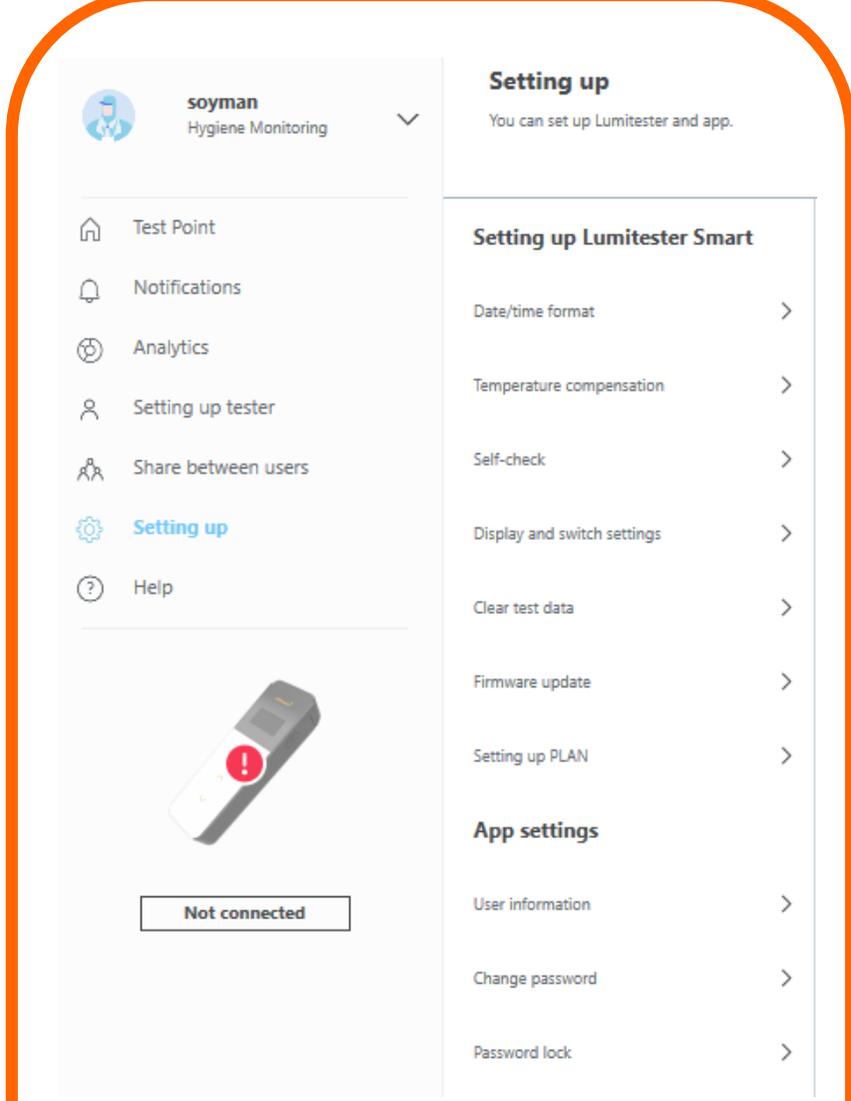
Add test point

2. Major functions supported by the "Lumitester" app.

➤ Several function including measurement can be managed.



Manage and operate measurement data

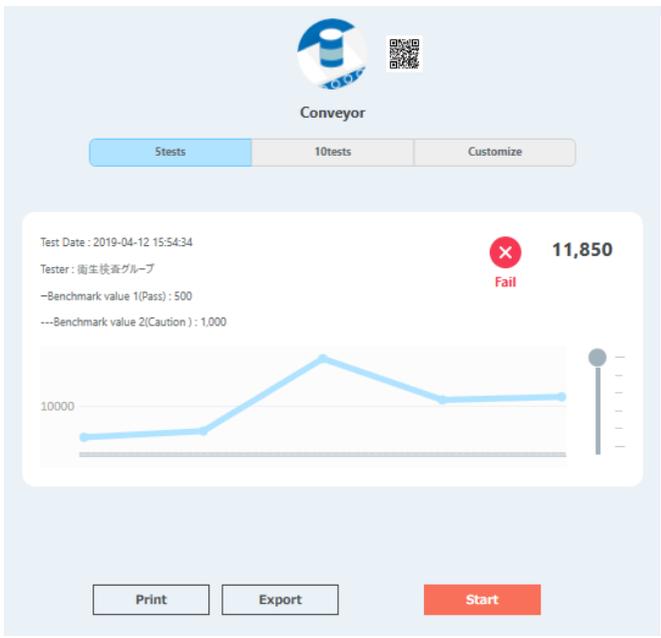


Lumitester Unit Settings

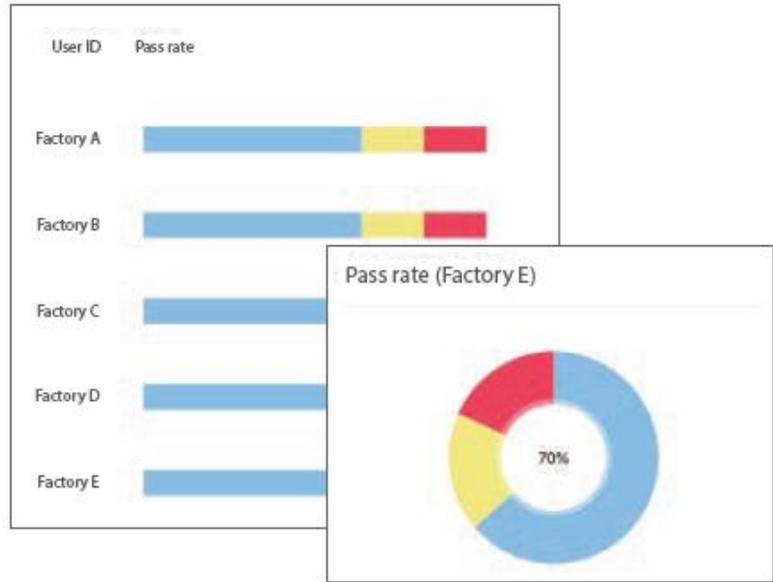
2. Major functions supported

by the "Lumitester" app.

- Result data can be stored in the cloud.
- Data trend graph and pass rate chart can be confirmed by data analysis.
- Result data can be shared to remote sites.



Trend Graph



Pass Rate Chart



Image: Analytics_Test result analysis_ALL data

soyman
Hygiene Monitoring

Tests result analysis

You can view test results as a graph.

Graph All data

Search criteria

Test Date: 2019-01-01 - 2020-03-17

Test Point Group: Food Service

Test Point: Hand2

PLAN: All

Share between users: soyman

Test Point Group	Test Point	Test result	Pass/Fail	Benchmark value 1	Benchmark value 2	Test Date	Tester	Adm. Dept./ Administrator
Food Service	Hand	474	✓ Pass	2,000	4,000	2020-03-17 13:34:17	soyman	soyman
Food Service	Hand	418	✓ Pass	2,000	4,000	2020-03-17 13:33:43	soyman	soyman
Food Service	Hand	10,101	✗ Fail	2,000	4,000	2020-02-21 14:41:15	soyman	soyman
Food Service	Hand	25,212	✗ Fail	2,000	4,000	2020-02-21 14:40:09	soyman	soyman
Food Service	Hand	24,223	✗ Fail	2,000	4,000	2020-02-21 13:35:57	soyman	soyman
Food Service	Hand	38,231	✗ Fail	2,000	4,000	2020-02-20 14:13:58	soyman	soyman
			✗ Fail					soyman
			✗ Fail					soyman
			✗ Fail					soyman
			✗ Fail					soyman
			✗ Fail					soyman
			✗ Fail					soyman
			✗ Fail					soyman
			⚠ Caution					soyman
			✓ Pass					soyman
			✓ Pass					soyman

Search criteria ✕

Filtering analysis targets by criteria. The result of filtering is reflected to the graph.

Test Date

2019/01/01 2020/03/17 Do not specify a date

Test Point Group **Test Point** **PLAN**

Share between users

Pass Caution Fail View data in recycle bin

OK

Test result details ✕

Test Point: Hand

Test Point Group: Food Service

Benchmark value 1: 2,000

Benchmark value 2: 4,000

Test result: Fail ✗ 10,101

Test Date: 2020-02-21 14:41:15

Test mode: PLAN

Step No.: 1

PLAN name:

Tester: soyman

Adm. Dept./Administrator: soyman

Note:

To Recycle bin

Save

CSV

Test result detail

Image: CSV

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Test Point	Test Point Group	Benchmark value 1	Benchmark value 2	RLU value	Test result	OVER	Temperature	Temperature	Test Date	Test mode	Retest	Step No.	PLAN name	Tester	Adm. Dept./Ad	Note
2	NozzleT	TOKYO FAC	100	200	58	Pass				2020/3/17 14:01	PLAN		1	TOKYO LINE	soyman	soyman	
3	FillingT	TOKYO FAC	100	200	148	Caution				2020/3/17 13:46	PLAN		2	TOKYO LINE	soyman	soyman	
4	ProductionT	TOKYO FAC	500	1000	478	Pass				2020/3/17 13:45	PLAN		3	TOKYO LINE	soyman	soyman	
5	ConveyorT	TOKYO FAC	500	1000	560	Caution				2020/3/17 13:44	PLAN		4	TOKYO LINE	soyman	soyman	
6	TrayT	TOKYO FAC	200	400	181	Pass				2020/3/17 13:43	PLAN		5	TOKYO LINE	soyman	soyman	
7	HandT	TOKYO FAC	2000	4000	1788	Pass				2020/3/17 13:43	PLAN	Retest	6	TOKYO LINE	soyman	soyman	
8	Nozzle	Inspection	100	200	78	Pass				2020/3/17 13:43	STANDARD				soyman	soyman	SUPPLIER
9	Filling	Inspection	100	200	88	Pass				2020/3/17 13:42	STANDARD				soyman	soyman	SUPPLIER
10	Production	Inspection	500	1000	402	Pass				2020/3/17 13:42	STANDARD				soyman	soyman	SUPPLIER
11	Conveyor	Inspection	500	1000	474	Pass				2020/3/17 13:34	STANDARD				soyman	soyman	SUPPLIER
12	Tray	Inspection	200	400	155	Pass				2020/3/17 13:33	STANDARD				soyman	soyman	SUPPLIER
13	Hand	Inspection	2000	4000	1678	Pass				2020/3/16 18:35	STANDARD				soyman	soyman	SUPPLIER
14	NozzleK	KYOTO FAC	100	200	123	Caution				2020/3/16 18:33	PLAN		1	KYOTO LINE	soyman	soyman	
15	FillingK	KYOTO FAC	100	200	120	Caution				2020/3/13 18:35	PLAN		2	KYOTO LINE	soyman	soyman	
16	ProductionK	KYOTO FAC	500	1000	1234	Fail				2020/2/21 14:41	PLAN		3	KYOTO LINE	soyman	soyman	
17	ConveyorK	KYOTO FAC	500	1000	2440	Fail				2020/2/21 14:40	PLAN		4	KYOTO LINE	soyman	soyman	
18	TrayK	KYOTO FAC	200	400	244	Caution				2020/2/21 13:53	PLAN		5	KYOTO LINE	soyman	soyman	
19	HandK	KYOTO FAC	2000	4000	2304	Caution				2020/2/21 13:40	PLAN	Retest	6	KYOTO LINE	soyman	soyman	
20			0	0	8897					2019/2/4 13:33					soyman		DEMO
21			0	0	3241					2019/1/18 16:55					soyman		DEMO
22			0	0	14409					2019/1/16 15:26					soyman		DEMO

e.g. place, facility name, specific test point, or theme of inspection may fit.

e.g. place, facility name, specific test point, theme of inspection may fit.
 *This does not have to be the same as "Test Point Group."

3. Support function for the “standalone operation” - STANDARD Mode & PLAN Mode -



Power
button for
5seconds

*Press and hold the Power button for 5 seconds or longer to display the Setup screen. Then press Up/Down button to select "Mode Select".

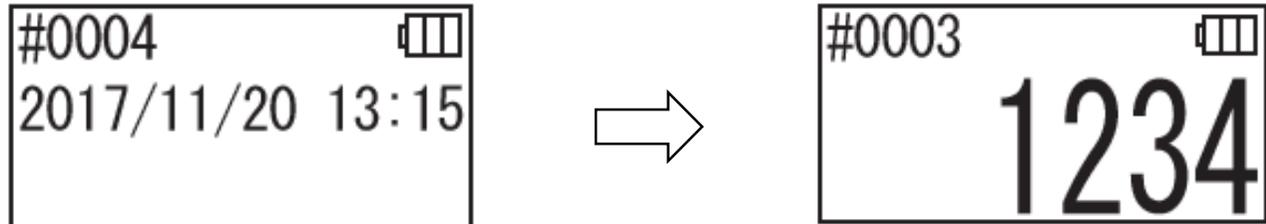
*Function NO.2 & 3 will be selectable after the test points and benchmark values are transferred into the Lumitester Smart unit via the app.

3. Support function for the "standalone operation"

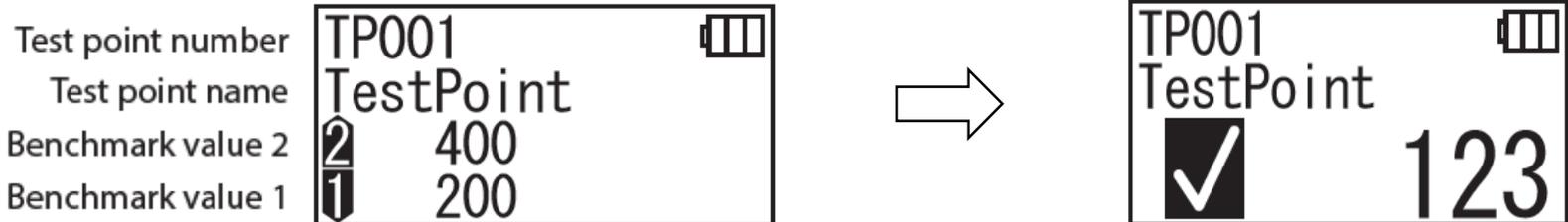
- STANDARD Mode & PLAN Mode -

STANDARD Mode

1. STANDARD test *simple measurement



2. STANDARD test *with test point selection



By selecting test point, "test point number," "name" & "the result of pass/fail judgement" will be displayed and stored in Lumitester Smart unit when measured.

STANDARD test mode

For users who only want simple results or hand-write data results.
For users who want to store results linked with "test point name" and results of pass/fail judgement for standalone use.

*Press and hold the "START" key for the changes between function 1 & 2 13

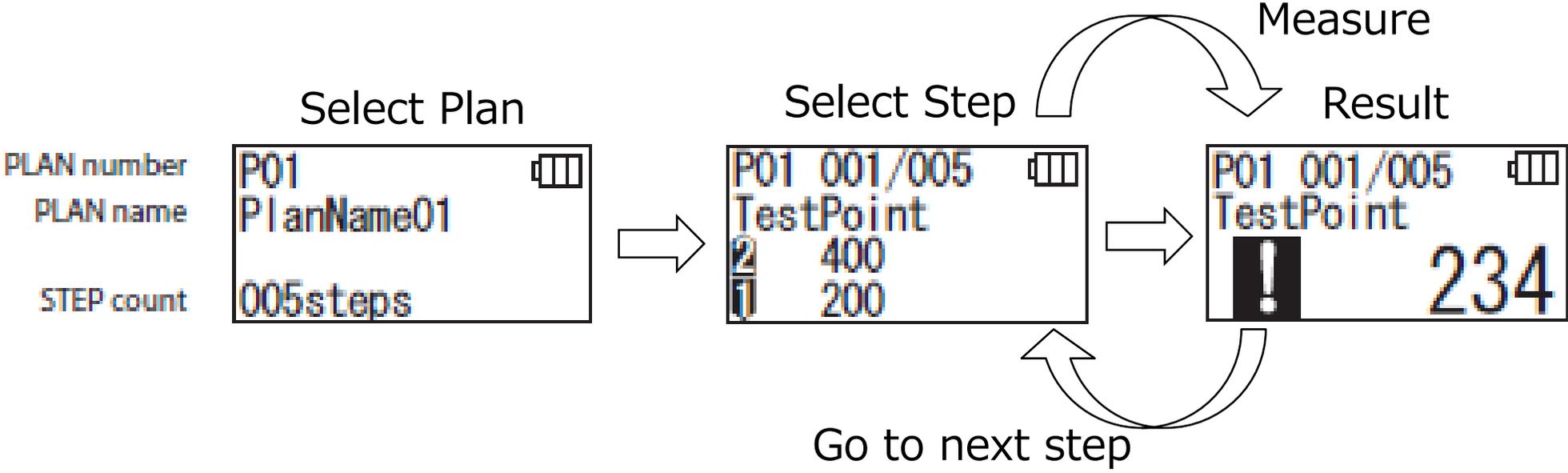
3. Support function for the "standalone operation"

- STANDARD Mode & PLAN Mode -

PLAN Mode

3. PLAN selection & Step selection

A PLAN is created by gathering multiple test points in order.



PLAN test mode

For users who want to test multiple test points in order step-by-step as PLAN. For users who want to store results with all the references in standalone use, such as *PLAN number, PLAN name, Test Point, Benchmark Value, Tester.

*Function NO.2 & 3 will be selectable after the test points and benchmark values are transferred into the Lumitester Smart unit via the app.

Image: "Test result details"

STANDARD Mode

Test result details		✕
Test Point		Hand
Test Point Group		Food Service
Benchmark value 1		2,000
Benchmark value 2		4,000
Test result	Pass 	354
Test Date		2020-03-17 13:46:12
Test mode		STANDARD
Step No.		-
PLAN name		-
Tester		soyman
Adm. Dept./Administrator		soyman
Note	<input type="text" value="Random inspection"/>	
	<input type="checkbox"/>	To Recycle bin
<input type="button" value="Save"/>		

PLAN Mode

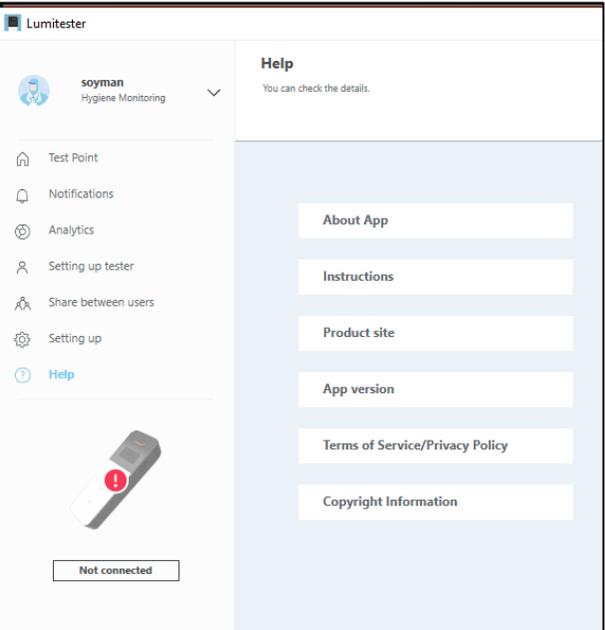
Test result details		✕
Test Point		Hand
Test Point Group		Food Service
Benchmark value 1		2,000
Benchmark value 2		4,000
Test result	Fail 	10,101
Test Date		2020-02-21 14:41:15
Test mode		 PLAN
Step No.		1
PLAN name		TOKYO
Tester		soyman
Adm. Dept./Administrator		soyman
Note	<input type="text"/>	
	<input type="checkbox"/>	To Recycle bin
<input type="button" value="Save"/>		

"Test result details" can be confirmed by the analytics function in the app.

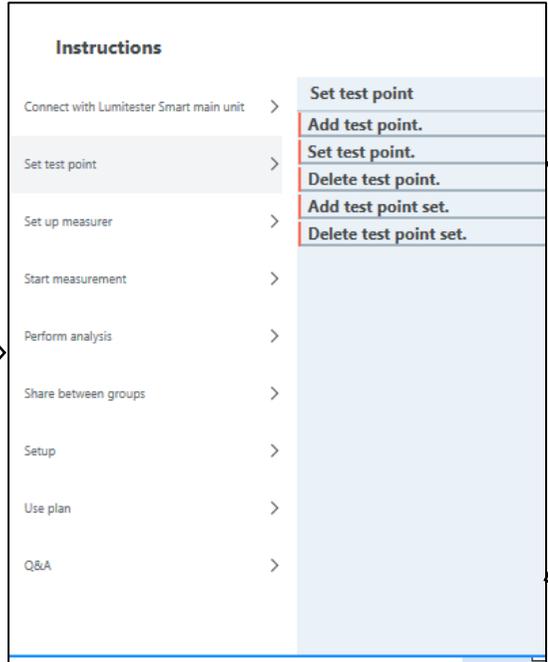
Appendix: HELP & OTHERS

➤ "HELP" and "Instructions" are available in application.

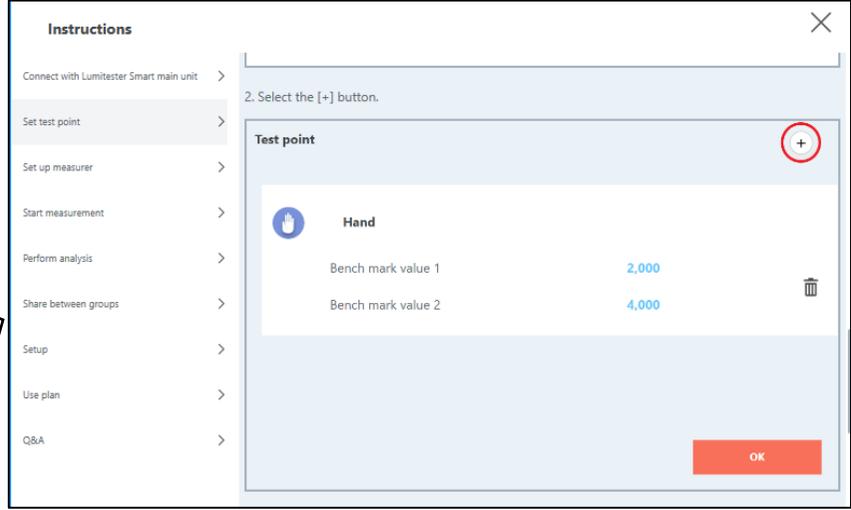
HELP



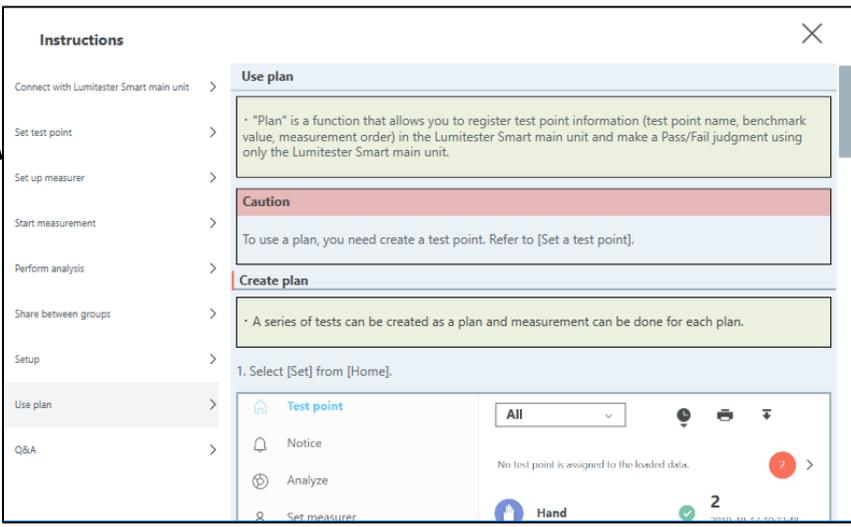
Instructions



Set Test Point



Create PLAN



The "Lumitester" app is available for Free



- ← The "Lumitester" app is available from the
- ← Kikkoman Biochemifa Company's website.
- ← <https://biochemifa.kikkoman.co.jp/e/support/dl/smart/>



— For Smartphone or Tablet



Android



iOS

— For PC (OS: windows 7 or 10)



e_smart_cs_win208.zip

PC-Windows

Account

-> Each email address can be used to create 1 account.

Test Point Group

-> **100 test point groups** can be set in the app for each account.

Test Point

-> **1000 test points** can be set in the app for each account.
***200 test points (TP001~TP200)** can be transferred from the app to the Lumitester Smart unit for standalone use.

PLAN

-> **100 PLANs** can be created in the app for each account.
***20 PLANs (P01~P20)** can be transferred from the app to the Lumitester Smart unit for standalone use.

	Test Point Group	Test Point	PLAN	Data Storage
App	100	1,000	100	No limit
Lumitester Smart unit		200	20	2,000

Name (Test Point name, PLAN name, Test Point Group):
18 single-byte alphanumeric characters can be used, including symbols and spaces.
Lumitester display name:
12 single-byte alphanumeric characters can be used for labeling each name.
 *Spaces cannot be used for the "Lumitester display name"

Appendix: Comparison of Lumitester Smart/PD-30/PD-20/PD-10N



	Contents	Smart	PD-30	PD-20	PD-10N
Lumitester	Measurement Time	10Sec	10Sec	10Sec	10Sec
	Maximum Dumber of Data Points Stored	2000	2000	2000	1000
	LuciPac Pen	✓	✓	✓	×
	LuciPac A3	✓	✓	✓	×
	Temperature Compensation and Self-Diagnosis	✓	✓	✓	×
	Control Kit	✓	✓	✓	×
	USB Connection to a Computer	✓	✓	✓	×
	Wireless Connection to a Smartphone or a Tablet via Bluetooth	✓	×	×	×
	PLAN Mode Setting for Standalone Use (Plan, Tests Points, Rank, Benchmark)	✓	✓	×	×
Software/App	Compatibility with Windows 7, 10	✓	✓	×	×
	Compatibility with Android 5, iOS 10 or higher	✓	×	×	×
	Data Retention on the Software or App	✓	×	×	×
	Instructions on Setting up Test Points	✓	×	×	×
	Auto-Analysis and Graph Display	✓	×	×	×
	Cloud Data Management	✓	×	×	×
	Full Instructions in Software and App	✓	×	×	×