SANCHAR
WIRELESS COMMUNICATIONS LTD.

SBAA-05

Breath Alcohol Analyzer

INSTRUCTION MANUAL

TABLE OF CONTENTS

1) INTRODUCTION.....1
2) PRODUCTION FUNCTION & APPLICATION.....1-2
3) PARTS INSTRUCTION.....2
4) SYMBOLS.....3
5) MAIN MENU.....3
6) SCAN MODE.....4
7) ACTIVE MODE.....5
8) RECORD.....6
9) SETTING.....7-13
10) POWER ON.....13
11) SCAN MODE (MOUTHPIECE NO NEED).....14-15
12) TAKE EVIDENCE MEASUREMENT.....16-17
13) NOTE.....17-18
14) INPUT MESSAGES.....18
15) CHANGE INPUT.....19
16) PRINT RESULT.....19-20
17) SAVE RESULT.....20
18) MEASURE AGAIN.....20
19) SCREEN OF FUNCTION.....21
20) POWER OFF.....21
21) RESULT STORAGE.....22
22) CARE & KEEP.....22-23
23) BATTERY AND CHARGE.....23-24
24) CALIIBRATION & SERVICE.....24
25) ERROR AND REMEDY.....24-25
26) ACTIVE MODE.....25-26

INTRODUCTION

1. Please read this operating manual before use.
2. The performance of the device depended on the operation and maintenance.
3. Calibration and maintenance must be carried out by authorised person according to the requirements of local government.
4. The sensor used in the device contains chemical material and must be disposed according to local regulations.

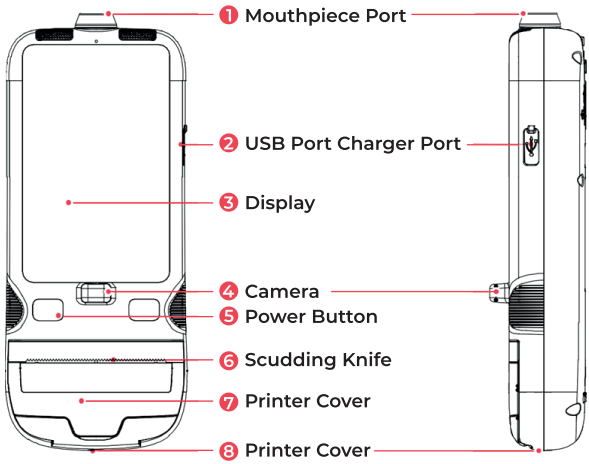
PRODUCTION FUNCTION & APPLICATION

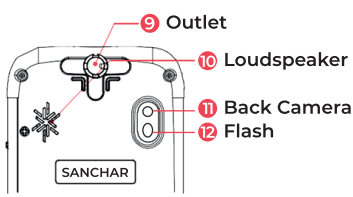
1. SBAA-05 has used fuel cell sensor which doesn't react with the other substances.
2. While a person is blowing into it, the device controls and determines the volume of expired air.
3. This ensures that only deep lung air which reflects the blood alcohol content correctly can be sampling and analyzing.
4. SBAA-05 is easy to use with three buttons.
5. SBAA-05 with touch screen allows to input many kinds of messages.
6. SBAA-05 is designed with thermal printer, easy to save printing results.
7. The device is equipped with 1,00,000 data memory and USB port. The data can be printed out through a printer or managed in PC. The PC software allows user to take maintenance, calibration and device settings.

8 SBAA-05 has been developed for the fast and accurate measurement of the alcohol level in one person's breath. It is suited for professional alcohol detection.

9 Scan mode is suitable for fast screening, active mode is used for evidential testing.

PAST INSTRUCTION

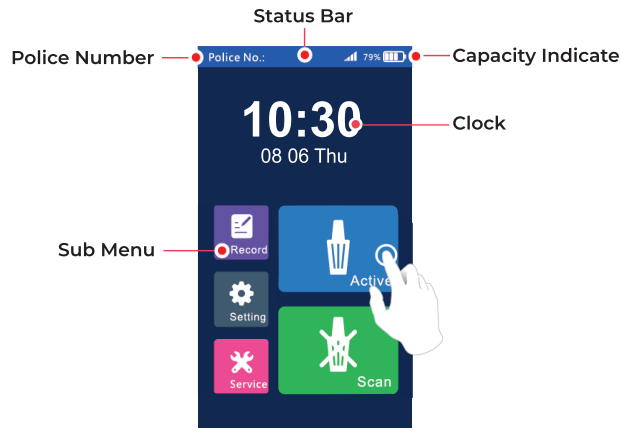




SYMBOLS

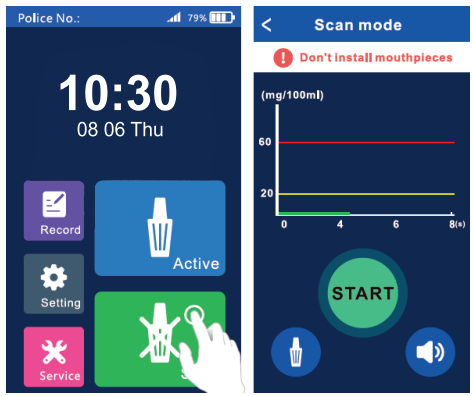
Symbols	Description	Symbols	Description
79%	Capacity Indicate		Attention
50%	Charging		Date of Manufacture
17:31	Clock		Manufacture
<	Return Button	PN	Product Number
	Power Button	SN	Serial Number
	Bluetooth Switch Settings		Rule of Discard about product
◀ ▶	Plus/Minus Up/Down Button		Wireless Communication Signal
	Positioning Status Display		Signal Strength

MAIN MENU



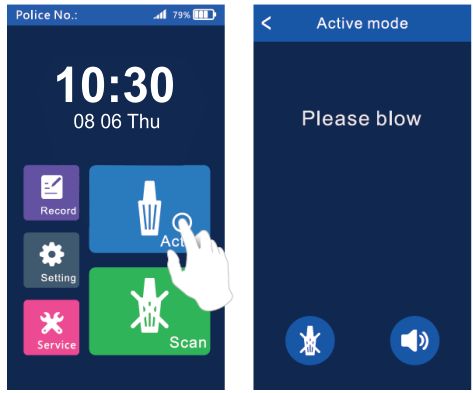
This device is with touch screen, you can enter into the menus and operate by touch the screen

SCAN MODE



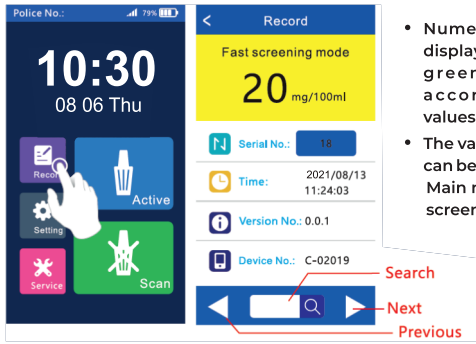
- The purpose of Scan mode is for detection of alcohol in ambient.
- This mode can't serve as an accurate measurement. The value measured only indicates that there is alcohol in air. For evidential use, please use Active mode to test which offers accurate reading.
- When in Scan mode measuring, no mouthpiece needed.

ACTIVE MODE



- When in Active mode, mouthpiece need to be installed firstly, It is for evidential measurement.
- The purpose of Active mode is testing the alcohol concentration of blood accurately.

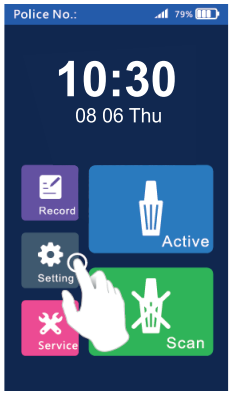
RECORD

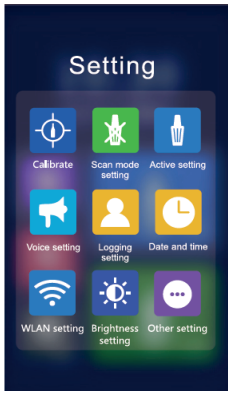


- Numerical results can be displayed in three colours: green, yellow, and red according to different values.
- The value interval and colour can be set in:
  Main menu> setting> fast> screening setting> Limit

- The history records were stored in “Record”, including reading, date, time and record No.
- User can find every previous measurement record in this menu, including the data of scan mode, active mode.
- The last value measured can be seen on the display, when you press “OK” button.
- Press “Next” button, it will show you the next record.
- The user can reach and print every record in the menu.

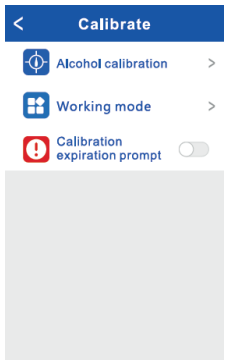
SETTING



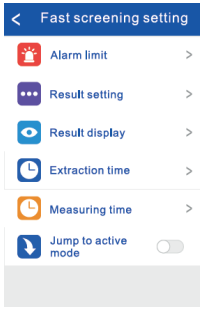


- Touch to enter the setting menu and change the settings of various functions in the instrument.

Main menu > Setting > Calibration



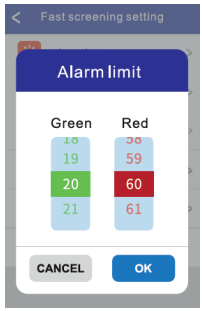
- Alcohol calibration, you can change the change of the active calibration value.
- In the working mode, you can choose service mode or measurement mode.
- Calibration expiration reminder, gray off, blue on.



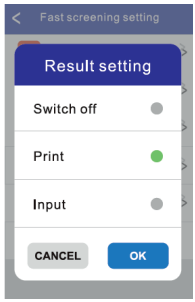
Main menu> Setting> Fast screening setting

- This setting can set certain parameters in the Fast screening mode, and the Active mode is not affected by this setting.

Main menu> Setting> Fast screening setting> Alarm limit



- Select the appropriate alarm limit by sliding the number area up and down on the touch screen.
- When the measurement result exceeds the value set by the red alarm limit, the graph will be displayed in red.
- When the measurement result is lower than the value set by the green alarm limit, the graph will be displayed in green.
- When the measurement result is between the value set in red and green, it will be displayed in yellow.
- since the fast screening mode is not used for precise measurement, the value of the selected alarm limit is not accurate measurement results, the test cannot be punished just for exceeding this line.

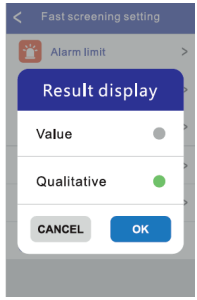


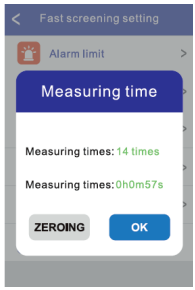
Main menu> Setting> Fast screening setting> Result setting

- In the fast screening setting, The result can be set to close, print and input.

Main main menu> Setting> Fast screening setting> Result display

- This setting is used to determine how the results are displayed in the fast screening mode. Numerical mode, The result is displayed in numerical mode. Qualitative approach, Results are presented only in “with alcohol” or “without alcohol” terms.



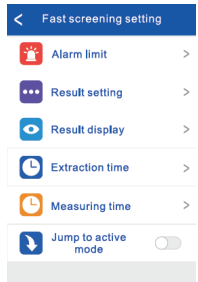


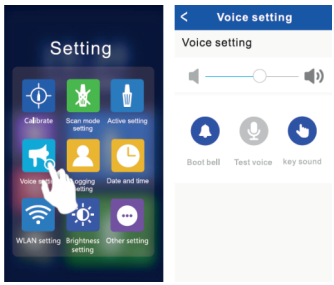
Main menu> Setting> Fast screening setting> Measuring time

- In this menu, you can view the number of measurements and the measurement time, and you can perform a zero reset operation.

Main menu> Fast screening setting> Jump to active mode

- This setting is used to determine whether alcohol is detected in the fast screening mode. If it exceeds the alcohol limit setting range, it will automatically jump to the automatic mode.



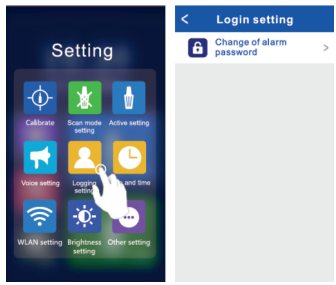


Main menu> Setting> Voice setting

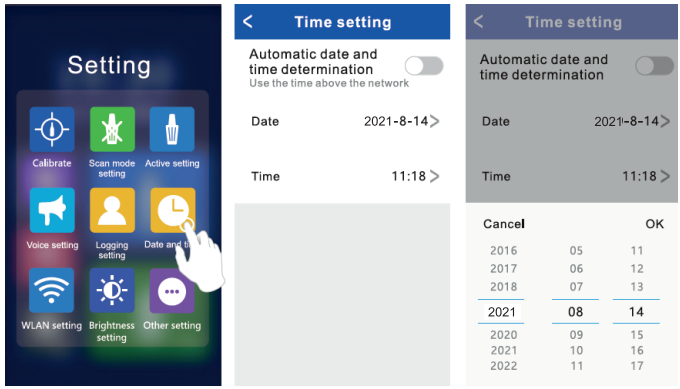
- In this interface, the user can slide to set the volume level.
- You can click to set the start-up voice, measurement voice, and touch key tone on and off.

Main menu> Setting> Login setting

- This is menu can be used to change the login police number and password.



Main menu> Setting> Date and Time



- Adjust the time and date through the touch screen. Press the “OK” key to confirm. If you press the “Return” key, this setting is invalid.
- For example, to set “year”, slide the year list up and down to change the year, slide the month up and down to change the month, the date is the same as above, after selecting the correct date, click C button to save.
- The other items in the date and time can be set according to this method.
- After changing the date and time, press the “OK” button to save and exit, and click the back button to enter the main interface.

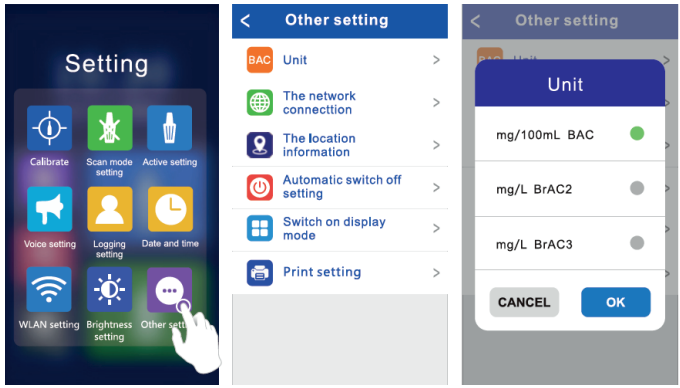
Main menu> Setting> WLAN setting

- This menu can turn WiFi on or off

Main menu> Setting> brightness setting

- This menu can adjust the screen brightness.

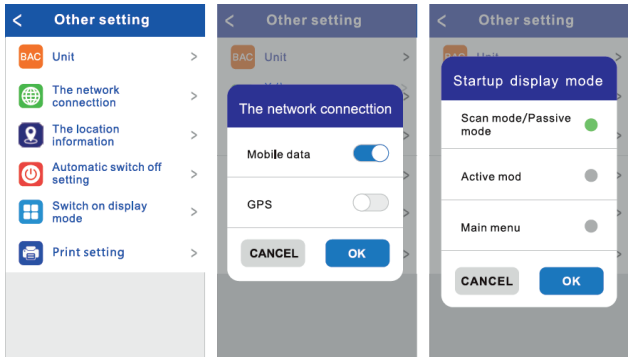
Main menu> Setting> Other setting> Unit



- Under the unit menu, touch to select the desired unit, the green button represents the current selection, press the “OK” button, the setting is successful, and click cancel to exit without saving. BAC means blood concentration, BrAC means breath alcohol concentration.

Warm Tips : Please choose the unit carefully to avoid misjudgment of the measurement result due to unfamiliarity with the selected unit.

Main menu> Setting> Other setting> The network connection/ Switch on display mode/ Automatic switch off setting

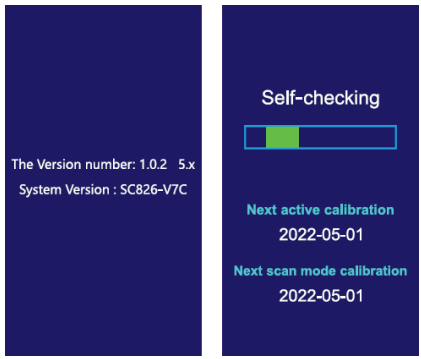


- Under the GPS menu, click the sliding button, the blue sliding/green button represents the current selection, press the “OK” button to set successfully, click Cancel to exit without saving.
- Automatic power on/off setting can automatically power on and power off the machine.

USE INTRODUCTION

POWER ON

- Press down the power button for 3 seconds, the device will be switched on. There will be a self-check after switch on.
- During this check, the device logo, software version and the date and time for next calibration will be on the screen 3 seconds.



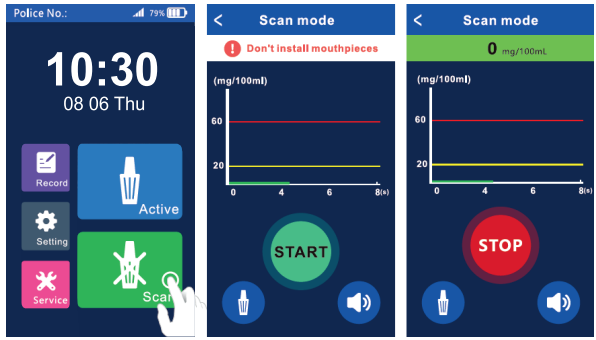
SCAN MODE (MOUTHPIECE NO NEED)

1 The sensitivity and accuracy of the device is effected by the distance of nose of mouth for blow volume can lower during the air.

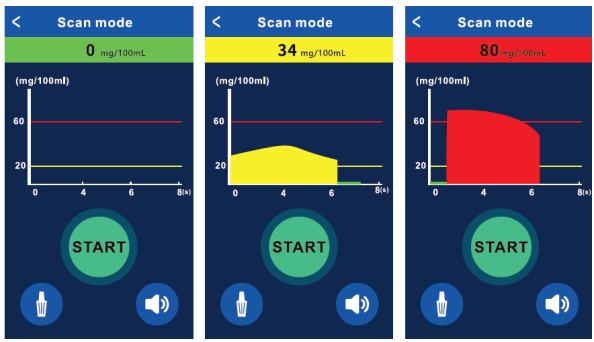
2 Please make sure the inlet of the device should be closed enough to the nose or mouth, no excess 10cm. So it can't serve as an accurate measurement and basis of punishment. For evidence use, please use breath alcohol breath analyzer with mouthpiece to test which offer accurate reading.

The result will be showed in figure for the testing process, and the result will be displayed on the screen.

Warm Tips : The default sampling time is 5 seconds, also can set between 5 to 15 seconds, the user can set in "Menu/ Setting/ Service/ Blow Setting", but only the authorized person can do it.



3 After analysis, the testing result will be displayed on the screen.



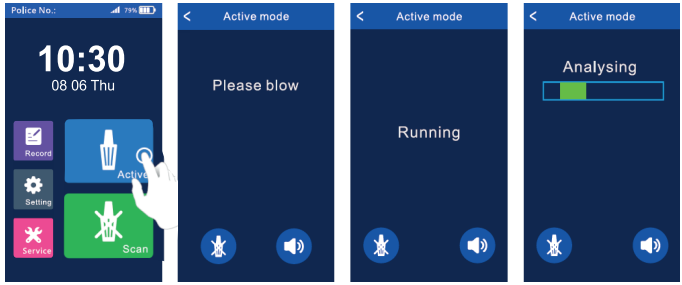
4 If the reading is below the green limit, the screen will display the highest measured value and graphics during testing process. If the reading is below the red limit, higher than the green limit, the figure is yellow. If higher than the red limit, the figure is red.

TAKE EVIDENCE MEASUREMENT
(Active mode, Must need mouthpiece)

1 Switch on, after self test, it will enter into active mode.

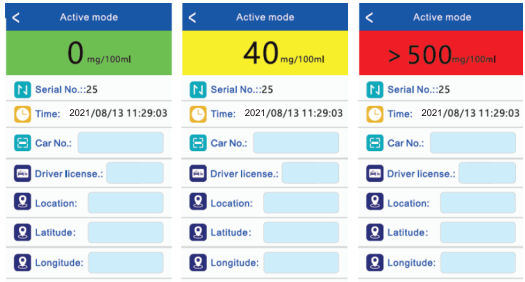
2 The display will show “Please blow”, the tester need to blow to the device by mouthpiece.

3 If select Active mode, you will hear beep sound during blow, and it will not stop until blowing enough volume. Then the device enter into the automatic analysis.



Warm Tips : If no voice measurement message is displayed, check whether the voice measurement function is enabled under voice setting.

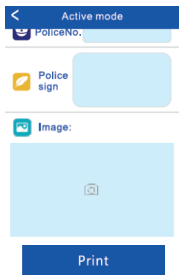
5 After analysis, the testing result will be displayed on the screen.



NOTE :

- In active mode, mouthpiece must be needed.
- If the measurement result exceed the measurement range, (0-550mg/100ml), it will display ">550mg/100ml".
- If blowing failure, it will display "blow failure".

6 The instrument will automatically take pictures while blowing. On the measurement result page, slide down to the bottom to see the photo taken, and click the "Print" button to print it.



7 This device can input car number, police number, license number, and driver name, location through touch panel screen.

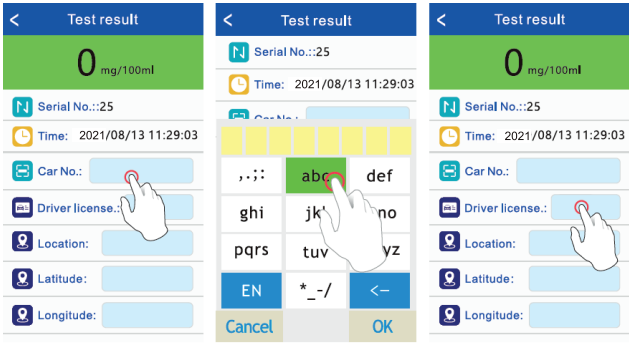
INPUT MESSAGES

1 Below screen is input area, use touch screen to click character.

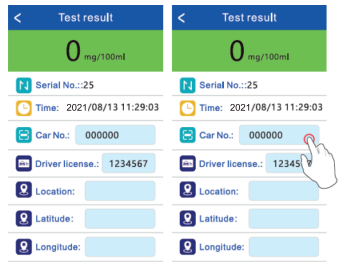
2 If wrong input happen, only need click the error words and replace with a correct one.

3 After finished it, select bottom left “?123" and input car number message.

4 After car number finished, touch the “Driver license” interface.



CHANGE INPUT



- In this interface, if you find that the input information is wrong, you can touch the “to be input area” on the screen again to modify the car number, police number, license number, and driver name, location through touch panel screen.

PRINT RESULT

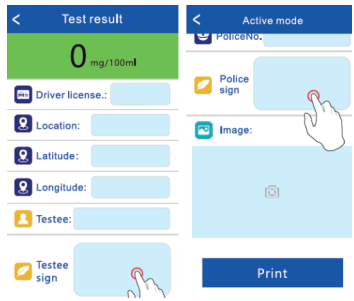
1 After all the information is entered accurately and correctly, touch the “Print” button at the bottom to print the measurement results.

2 During printing, the screen will display corresponding printing prompts.

Warm Tips:

- The user can query any record and print it under the menu “Menu Menu> Record”.
- If you need to print multiple copies, please touch the “Print” button on the screen again.

- The Police officer’s signature and the signature of the tested person shall be input by handwriting, and the signature shall be performed in the handwriting box.



SAVE RESULT

1 After all the information is input correctly, the measurement result will be automatically stored in memory only when "back" is touched or power off.

2 The stored data will not be lost due to power failure.

Warm Tips : For the saved measurement record, the user can query this record under the "Main Menu/Record" menu, but the data in the history record state cannot be modified or deleted.

MEASURE AGAIN

1 When a measurement is completed and another measurement is required, touching "<", the instrument will automatically prepare for the next measurement after the measurement result is saved.

2 If you are in other menus, please return to the main menu, enter the Active mode, measure again.

SCREEN OFF FUNCTION

1. In the boot interface, short press the power button in the lower left corner of the machine to turn off the screen and enter the power-saving state.
2. Short press the power button again to realize the bright screen.

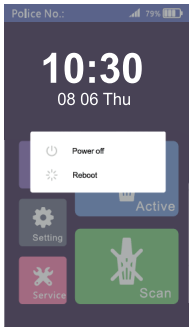
POWER OFF

Manual Shutdown

After long pressing the power button at the lower left corner of the machine for about 3 seconds, the instrument will enter the shutdown state, and shutdown and restart options will appear on the screen. Select the corresponding operation to realize shutdown or restart.

Automatic Shutdown

This function is available if the user has set automatic shutdown.



RESULT STORAGE

1 All information input accurate and completed, only will store to memory when press the “back” button or turn it off, the storage result, the data in the flash memory will not be lost even there is no power on the device.

Attention: The User can check the test in “Result”, the result can not modify or delete.

2 The device can store 50,000 measurement data, including the reading, date, time and record No.

3 The flash memory will be overwritten if it is full, but there will have an alarm before overwritten.

4 The first data will be overwritten if the memory is full.

5 When 90% of the flash memory is full, there will be a message on the display.

CARE & KEEP

CARE

1 Only mild cleaning agents can be used to clean the device.

2 Organic solvents such as pure alcohol, acetone, turpentine etc. are not allowed for cleaning.

3 Be care for not let water come into the device inside.

4 Keep the USB port in a dry and clean condition.

TOUCH PANEL CALIBRATION

Don’t use coarse, shape and tough object to clean touch screen surface except wet cloth.

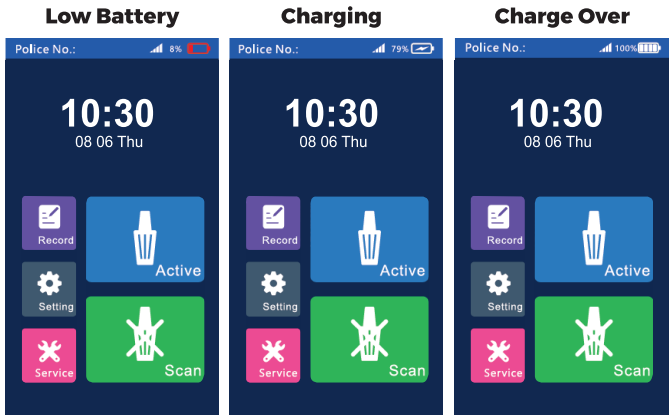
KEEP

Please keep the device dry and clear well condition. To maintain it carefully to make sure the using life, and work in excellent condition.

BATTERY AND CHARGE

BATTERY

1. Device apply 4000mAh li-ion battery, with preheated, pressure and current protecting sheet inbuilt can work more than 1000 time testing per charge.
2. There is battery indicator on the right top of the screen.
3. If battery is too low, screen and battery indicator be yellow and then red and flash will to remind you to charge, show as below:



Warm Tips :

- This instrument is equipped with a special charger, do not use other chargers to charge the instrument, otherwise the instrument may be damaged.
- Do not charge in an environment where the temperature is too low (less than -10°C) or too high (above 50°C) to avoid damage to the instrument or the risk of battery explosion.

CALIBRATION & SERVICE

1. The device must be calibrated every 12 months or required by local regulation. This is necessary in order to have an accurate measurement.
2. Calibration can only be done by authorized person.

ERROR AND REMEDY

Error message	Causes	Remedy
No Drink but Alcohol be tested	Last value too high or alcohol residue	Wait 15 seconds and re-test again
Scan mode alcohol detected but “0” by other device test	Scan sensitive (0.5mm/100ml) >5mg/ 100ml	Test be other device
Drink but no Result	Alcohol sensor broken, sensitivity decrease. Ambient temperature is too low. Too far from the mouth sampling port block	Exchange alcohol sensor Re-calibration adjust the distance exchange sampling slim

No power after several hours using	Battery bad	Change Battery

ACTIVE MODE

Error message	Causes	Remedy
Blow Failure	Blow is interrupted or no up to 1.2L	Blow again and reach to 1.2L
Calibration error	Calibration error	Re-calibration
Calibration expired	Calibration is expired	Re-calibration
Big difference between two measurement	Test just after drink, mouth have alcohol residue	Test again after 5 minutes, if two readings have 10% of difference, there is alcohol residual in mouth. Need wait 15 min., test again
Alcohol can be identified by nose, but the reading is zero	The tester alcohol value below 3mg/100ml may show 0 or device broken	Use another device to test. Or do blood test. And send device to service centre

Sampling system error	Device defective-but have bad effect to result Error in sampling system	Make another measurement, if this error appear, get help from service people
Time error	Device defective, but no bad effect to result Date and time error	It will not affect the result of the measurement, but have to contact with the service people if it happen again
Temperature error	Ambient temperature is out of range	May have influence to test result, please go to suitable temperature place for test
Memory error	device defective but have bad effect to result Memory can not be read or write	It's possible that new date can be stored, and the old date can not be read out. Take another test, if it appears again, get help from service people

SANCHAR WIRELESS COMMUNICATIONS LTD.

X-47, Okhla Industrial Estate Phase 2, South East Delhi, Delhi-110020

+91-11-4054 7324 info@sancharcomm.in www.sancharcomm.in