



SBAA-02

Breath Alcohol Analyzer



INSTRUCTION MANUAL

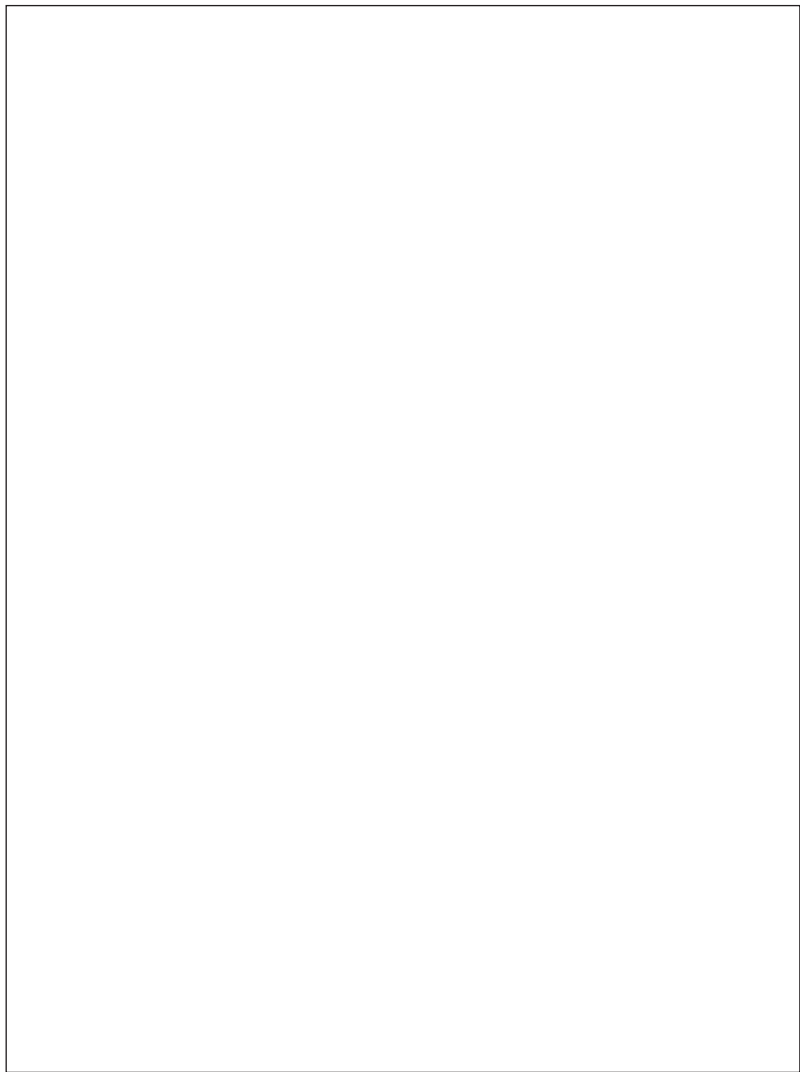


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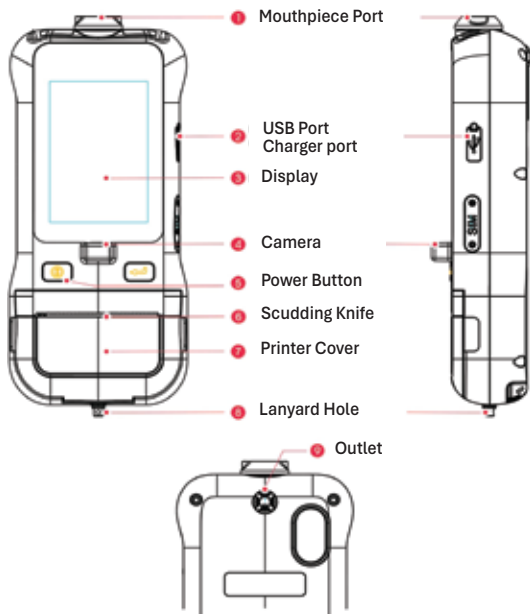
INTRODUCTION

- 1 This user manual has been prepared carefully. If you have found that there is something incorrect in this manual, please give us feedback, we will improve it later.
- 2 Please read this operating manual before use!
- 3 The performance of the device depended on the operation and maintenance.
- 4 Calibration and maintenance must be carried out by authorised person according to the requirements of local government.
- 5 Maintenance can only be done by authorised service personnel.
- 6 The sensor used in the device contains chemical material and must be disposed according to local regulations.

PRODUCTION FUNCTION & APPLICATION

- 1 **SBAA-02** is new generation alcohol analyzer. The last technology has been used in this device.
- 2 **SBAA-02** has used fuel cell sensor which doesn't react with the other substances.
- 3 While a person is blowing into it, the device controls and determines the volume of expired air.
- 4 This ensures that only deep lung air which reflects the blood alcohol content correctly can be sampling and analyzing.
- 5 The patented technology of Passive Mode can be used for drink and drive screening.
- 6 **SBAA-02** is easy to use with three buttons.
- 7 **SBAA-02** with touch screen allows to input many kinds of messages.
- 8 **SBAA-02** is designed with thermal printer, easy to save printing results.
- 9 The device is equipped with 100,000 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 the device settings.
- 10 The **SBAA-02** 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.
- 11 Passive Mode is suitable for fast screening, active mode is used for evidential testing.

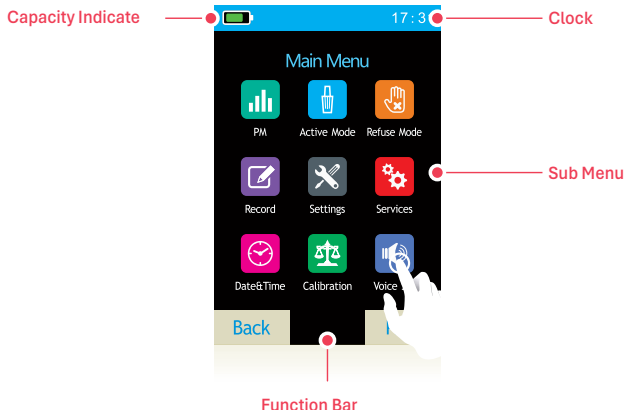
PARTS INSTRUCTION



SYMBOLS

Symbols	Description	Symbols	Description
	Capacity Indicate		Attention
	Charging		Date of Manufacture
17:31	Clock		Manufacture
	Enter Button	PN	Product Number
	Power Button	SN	Serial Number
	Up Button/Down Button		Rule of Discard About Product

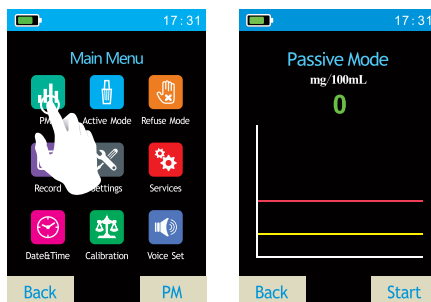
MAIN MENU



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



PASSIVE MODE

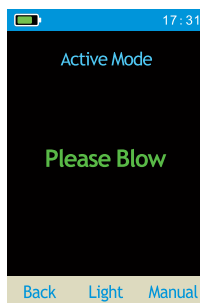
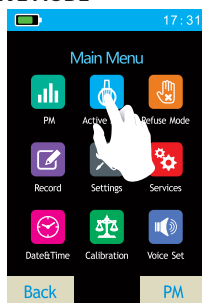


- The purpose of Passive Mode is for detection of alcohol in ambient.

- 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 Passive Mode measuring, no mouthpiece needed.



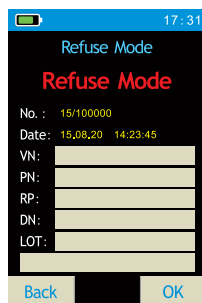
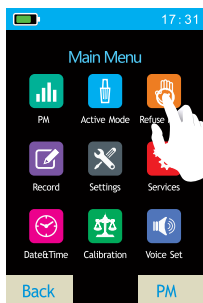
ACTIVE MODE



- 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.



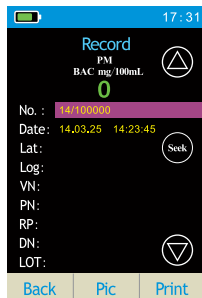
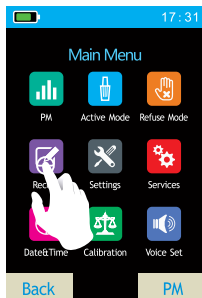
REFUSE MODE



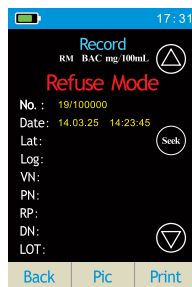
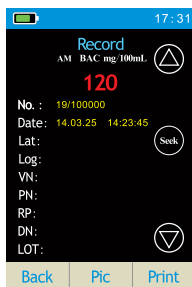
- This device can input car number, police number and license number, location through touch panel screen and buttons.
- Press "Back", the message will be cancelled to save.
- Press "print", you can print out the refuse test information.
- After you input the information, press "ok", the message can be saved, you can back to
- Main menu> Record to refer or print out the refuse test message.



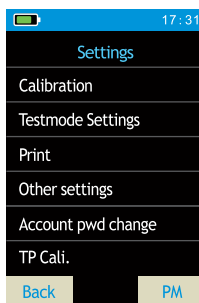
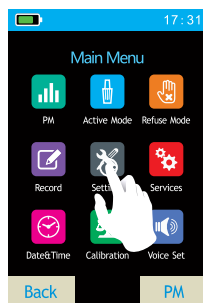
RECORD



- 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 and refuse mode.
- The last value measured can be seen on the display, when you press "OK" button.
- Press "Last" button, it will show you the next record.
- The user can reach and print every record in the menu.



SETTING



- In the "Settings" menu, user can change or define some functions of the device.
- Under this menu, you can see Calibration, Test setting, Print, Account pwd change and TP cali. and other settings submenu

MAIN MENU > SETTINGS> CALIBRATION

- **SBAA-02** breathalyzer is required to be calibrated every twelve months. It is necessary to have an accurate measurement. This menu has been protected by password, only authorized person can reach the menu.

MAIN MENU> SETTINGS> TESTMODE SETTINGS

- Under this menu, you can see SM Setting, AM Setting, MA Setting and Starting Up Mode.

TESTMODE SETTING> SM SETTING> LIMIT

- Under this menu, you can set the limit value of the Green and Red for graph during Passive Mode operation.

TESTMODE SETTING> SM SETTING> RESULT MODE

- Under this menu, you can set the Scan Result Mode to Quantitative or Qualitative.

TESTMODE SETTING> PMC SETTING> SCAN TIME

- You can set the Scan time as your requirements.

MAIN MENU> SETTINGS> PRINT

- Under this menu, you can turn on or off the signature. You can input the signature information.

MAIN MENU> SETTINGS> OTHER SETTINGS> UNITS

- In the "Units" menu, user can choose the unit by touch screen, press "ok" button.

MAIN MENU> SETTINGS> OTHER SETTINGS> CALI. REMIND

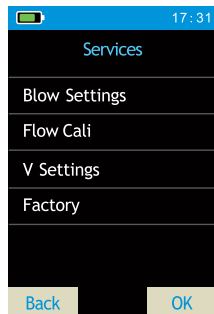
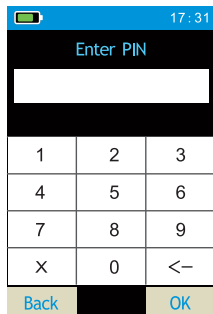
- This device will remind next calibration date when switching on.
- User can choose turn on/off this function.
- The device must be calibrated every 12 months, so when turn on the device it will remind calibration before next calibration expire.

MAIN MENU> SETTINGS> OTHER SETTINGS> WEB CONNECTION

- Under this menu, you can turn on or off the GPRS and GPS function.
- This settings is only effective for device with GPRS and GPS module.



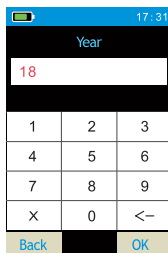
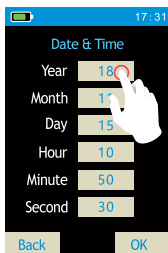
SERVICES



This menu has been protected by password, only authorized person can reach this menu.



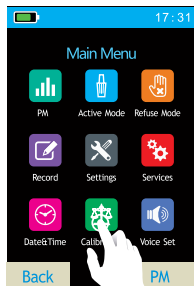
DATE & TIME



- Select "Date a Time" and press "OK" to confirm.
- For example, setting "Year", touch the screen and enter into the "year" interface, then click the number to input, press "OK" to confirm.



CALIBRATION

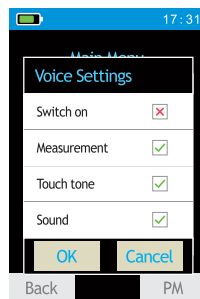
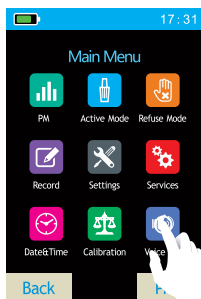


Calibrate Overdue Remind

- This device will remind next calibration date when switching on.
- User can choose turn on/off this function.
- The device must be calibrated every 6 months, so when turn on the device it will remind calibration before next expire.

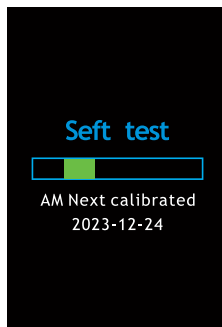


VOICE SET



USE INTRODUCTION

Power On



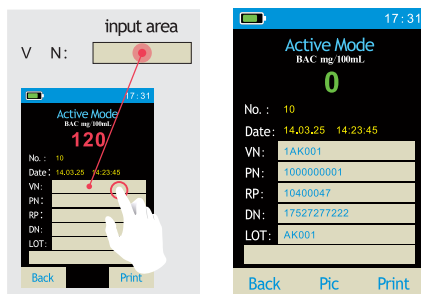
1. Press down the power button for 2 seconds, the device will be switched on. There will be a self-check after switch on.
2. During this check, the device logo, software version and the date and time for next calibration will be on the screen for 2 seconds.

PASSIVE MODE (MOUTHPIECE NO NEED)

1. The sensitivity and accuracy of the device is effected by the distance of nose or 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 cant serve as an accurate measurement and basis of punishment. For evidence use, please use breath alcohol breath anal with mouthpiece to test which offer accurate readin. The result will be showed in figure for the testing process, and the result will be displayed on the 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 "CN" and input car number message.
4. After car number finished, touch the "PN", entering into the "Police No. interface.



CHANGE INPUT

Before you press "Back", if you find input information wrong, the user can change or edit the input data.

PRINTING RESULT

1. After "Police number" finished, touch "PN", entering into the interface of License No.
2. After all the information finished, touch "OK", system will enter into the following interface.
3. select "print" button to print, when print, screen will show "Printing".

Remind:

Go to "Record" in main menu, you can print any history record, for multi results repress the "print" button on the touch screen.

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.

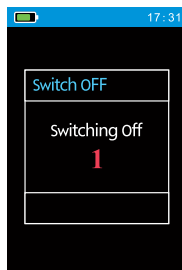
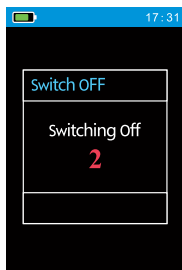
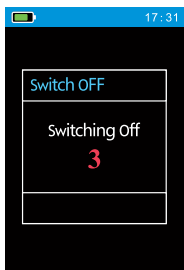
2. The device can store 100,000 measurement data, including the reading, date, time and record No.
3. The flash memory will be overwritten if it is full, but there will have an alarm before overwritten.
4. The first data will be overwritten if the memory is full.
5. When 90% of the flash memory is full, (such as: 90,000 measurement time) there will be a message on the display.

NEXT TEST

1. If you want to do next test, press "Back" button. The device will store the last data and ready for next test.
2. In other menu, please back to main menu and choose active mode for next test.

SWITCH OFF

1. Press "Power" button 3 seconds, it will display count down.
2. SBAA-02 will be power off automatically after 2.5 minutes without use.



ERROR AND REMEDY

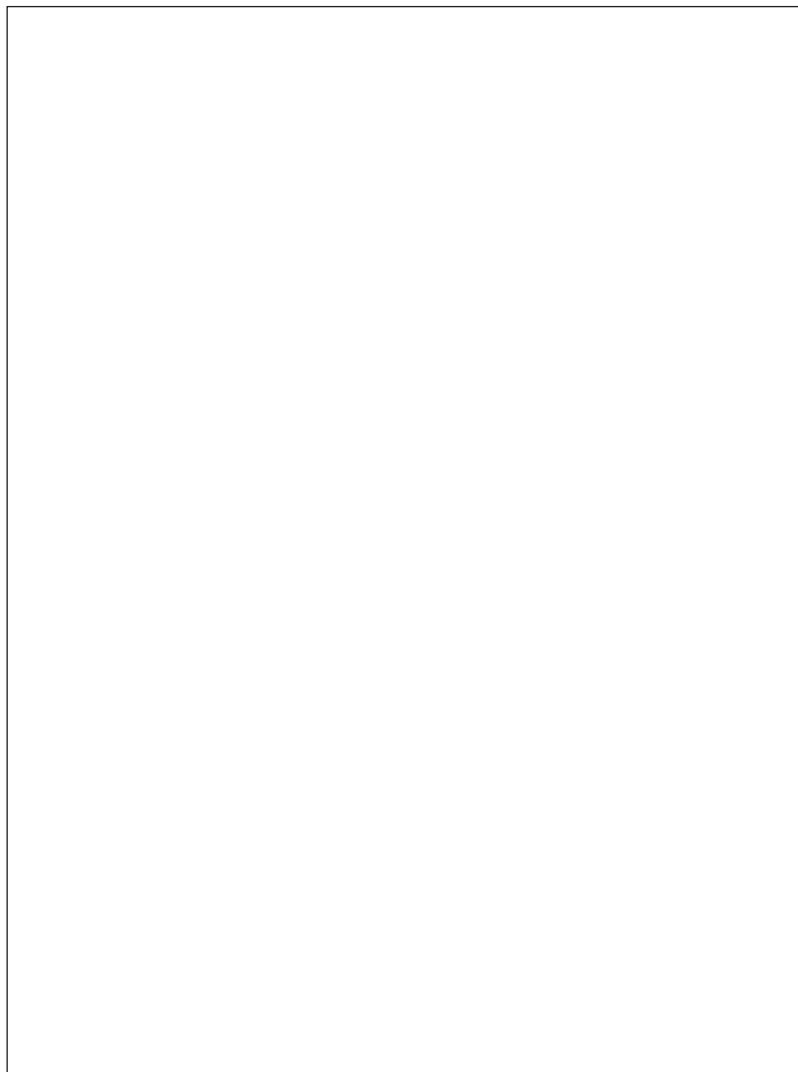
Passive Mode

Error Message	Causes	Remedy
No Drink but Alcohol be tested	Last value too high or alcohol residue,	Wait 15 seconds and re-test again
Passive Mode alcohol detected but "0" by other device test	Scan sensitive (0.5mm/100 ml) >5mg/100ml	Test by 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 Recalibration 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 1.0L	Blow again and reach to 1.0L
Calibration error	Calibration error	Re-calibration
Calibration is expired	Calibration is expired	Re-calibration
Big difference between two measurements	Test just after drink, mouth have alcohol residue	Test again after 5 min, 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/100 ml may show 0 or device broken	Use another device to test. Or do blood test. And send device to service center
Sampling system error	Device defective-but have bad effect to result Error in sampling system	Make another measure, if this error appear again, get help from service people
Time error	Devices 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
Memory full	Insufficient space The memory is full	Delete some data get help from service people
Paper error	No paper	Exchange paper





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