



**Thank you for purchased
BChat breathalyzer by KIOT Ltd**

Download mobile apps with following link
<http://www.kiot.com.hk/bchat/apk.html> or play store

B Chat Manual 1.0 Date 01, Dec 2017

Friendly reminder

B Chat is semiconductor sensor measurement device. Due to the duration of body system reflection after consumption of alcohol, performing a breath test less than 30 minutes after drinking will cause inaccurate test result. For best result B Chat suggest performing breath test at least 30 minutes after alcohol consumption.

- Spilt into blow hole could cause damage to sensor.
- Perform test earlier than 10 minutes after alcohol consumption could cause permanent damage to sensor.

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Effect of alcohol on body

Excessive drinking can cause alcoholic hepatitis which can lead to the development of jaundice (yellowing of the skin and eyes). Chronic liver inflammation can lead to severe scarring known as cirrhosis. When the liver fails to

Important Notice

KIOT Ltd strongly recommend no drink drive; make sure there is no blood alcohol content (BAC reading 0) when operating a vehicle or machinery. B Chat is breathalyzer for use as guideline for your personnel health purposes. Before using the B Chat breathalyzer you agree you have read the operating instructions are aware of the legal alcohol limit in your jurisdiction. The manufacturer distributors and sellers of this product exclude all liability for improper uses or loss or damage caused by actions taken by you after use of this product. Please be aware of the drive limit in your jurisdiction.

perform, toxic substances remain in your body. Liver disease is life threatening.

For more information
"23 effect of alcohol on body"

Please visit
www.healthline.com/health/alcohol/effects-on-body

What is breathalyzer?

A breathalyzer measures the amount of alcohol in your lungs. If you had taken a single swallow of beer right before the breathalyzer test, your breath might smell of alcohol, but the test would indicate that you were not intoxicated. This is because the breath you would bring up from your lungs would not have any alcohol in it, even though the breath in your mouth might.

Because the alcohol content of air in your lungs accurately reflects the alcohol content in the blood stream, law enforcement officers can use this information to know whether or not to take the keys from a driver who seems to be intoxicated.

Appropriate use of B Chat

- Read the instruction before attempting to use B Chat
- Check if the Device contain require battery level to operate
- Download the mobile apps
- Use breathalyzer 30 minute after consumption of alcohol.
- Email us if you experience any problem service@kiot.com.hk
- Recommend a drink of water before using the breathalyzer to avoid any contaminant into the B Chat when breathalyzing
- Perform the ASC before and after use


Inappropriate use of B Chat

- Blow with contaminant in the mouth
- Use the breathalyzer 30 minutes before after drinking alcohol (we recommend using it the morning after)
- Use the breathalyzer 30 minutes before after using mouthwash, breath spray, cough medicine or anything else that may contain alcohol.
- Perform a test in contaminate environment
- Use the breathalyzer if you have shortness of breath, after excising. Wait until you are comfortable in perform the test.



GETTING STARTED

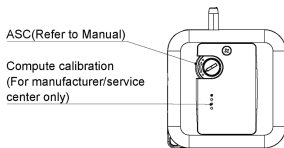
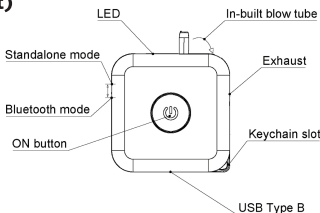
Step by Step to guide you through the B Chat journey

1. Unpacking the box
2. You may need to charge battery using the USB cord, however new battery usually has residual enough to operate for the first time.
3. This step might be needed if you have left B Chat idle for more than 3 month
4. Preparing it for use for the first time:
 - a. Activating the sensor
 - b. Performing an Auto Sensor Clean(ASC)
5. Download and install the (B Chat)  breathalyzer application from Play Store on your android phone
6. Slide the side switch toward the Bluetooth sign to activate Bluetooth mode
7. Connect the Breathalyzer (B Chat) and the application using Bluetooth BLE.
8. Learn how to perform a breath test and understanding the results using the App in connection with B Chat VIA BLE

Unpacking the Box (Box Content)

In the box you will have the following components:

- "B Chat" smart phone Breathalyzer
- 10 cm length - Micro USB Cable for charging use
- 5X detachable mouthpiece "Optional For hygienic purposes"
- User menu



Bluetooth Connection

1. To enable BLE mode, slide the BT Slide Switch to on.
2. When BLE mode enabled, you can connect to the Breathalyzer using the Breathalyzer app on your android phone.
3. Purple LED flashes indicate device not connected.
4. Blue LED flashes indicate device is connected.

Perform Breath Test

The device is a sensitive measurement device. You must wait at least 30 minutes after drinking or smoking before performing a breath test, performing a breath test before this time may permanently damage the sensor and cause device to read inaccurately.

There are two methods to trigger Breath Test:

1. BLE Mode: Control device to enter Breath Test using the android application. Follow the instruction on the application for Breath Test.
2. Standalone mode: Perform the test directly without android application. To Perform Breath Test in standalone mode, hold the ON/OFF key for 3 seconds, breath test will be initiated

Note: For the first time usage of the Breathalyzer, it is suggested to use under BLE mode, such that the application can set the BAC limit and time to the breathalyzer unit.

Breathe Test Procedures

After breath test is initiated, the device will proceed with the follow test procedures:

1. Blue LED flashes for 17 seconds to indicate Pre-heat in process. (Note: Pre-heat process takes 19 seconds, LED stop flashing 2 seconds in advance by the assumption that user takes 2 seconds to response LED changes)
2. Blue LED on for 6 seconds and a "buzz" sound to indicate user can start blowing to the blow tube.
3. LED changes color based on the result and two buzz sounds to indicate result ready.

PASS > "Green"
FAIL > "Red"
ERROR > "Purple"
LED color will keep for 30 seconds

Note:

The pass criteria are based on a default value of 0.2 Per-mille (‰) if the device is never connected to the android application. If the device has been connected the android application before, the pass criteria is based on the BAC limit set by user.

Sleep Mode

1. Under Standalone mode, the device will enter sleep mode after breath test
2. To enter sleep mode from BLE mode, slide the BT Slide Switch to OFF.

Low Battery and Charging

Battery status will be sent to the B Chat mobile application, when battery level is low, please charge the unit. When charging, RED LED will be on until USB cable is removed or if the device is fully charged, the LED will turn green. You cannot perform any operation when device is charging.

Others

1. Time

On every connection from the mobile phone to the alcohol checker, the time of the mobile phone will be set to the device. If the battery of the device is completely drained, the time information will be invalid. In order to resume time record function, you will need to connect to the mobile to get the most update time.

2. BAC reading record

The device will save up to 10 BAC records in device. The oldest record will be removed if it is more than 10 records. The records are cleared after retrieved by the mobile application.

2. The BAC Limit is suitable in my region or is not suitable for me

Please set the BAC limit on the mobile phone and connect the breathalyzer to the mobile application using BLE. The BAC limit will be set to the breathalyzer once connection is from.

Auto Sensor Clean

Please follow the instruction on the mobile application to perform Auto Sensor Clean.

Firmware Upgrade

Please follow the instruction on the mobile application to perform Firmware Upgrade.

Trouble Shooting

1. The time of the BAC result is not valid

The Breathalyzer uses the mobile phone time, for the first time usage after battery drain, please connect the android application using BLE to obtain the time from the mobile phone.

Activating the Sensor

You will need an alcoholic liquid of 5-7%Vol.

To make this liquid please do the following using normal white wine. Mix a small amount of white wine and water in a ratio of 1 part wine to 1.5 parts of water. This reduces the wine's alcohol % volume from approx 12-14% to 5 -7% and provides a very pure liquid which is ideal.

- 1) Following the diagram below, turn the B Chat over so that the back of the unit is facing you. On the bottom right hand corner of the B Chat breathalyzer you will find a small cap which you can remove.
- 2) Dip this cap in your pre-prepared alcohol of 5-7 % Volume, ensuring that the sponge section is now wet. Wipe off any excess liquid.
- 3) Insert the cap in to the ventilation hole on the back of the breathalyzer (do not press the cap in more than 1/2 way otherwise it may be difficult to remove it).
- 4) Turn the B Chat over so that it is facing you and slide the unit opens as if you were to perform a breath test. **DO NOT BLOW INTO THE UNIT VIA BLOW TUBE**
- 5) Remove the cap from the ventilation hole and place it back in its normal position. Perform an ASC(see page 6)

- 6) When ASC finish after 10 mins, remove the cap
- 7) Performs blow test using clean air (Blow with no alcohol) if the result read "LO" then Active sensor complete.
- 8) If not "LO" wait two hours then repeat step 7 again.

Automatic Sensor Clean (ASC) Function

The first time you use your B Chat breathalyzer you will need to perform an ASC. The ASC Function cleans the sensor inside the system and removes any contaminants. For example, oxidation if it has not been used for a period of time or residue left from contaminant in wine etc) To ensure high precision readings, we recommend performing an ASC regularly and ideally once every 2-4 weeks.

To Active ASC

1. Connect B Chat via Bluetooth with Smart phone
2. Turn on B Chat app
3. In the setting "click Auto Sensor Clean"
4. Press "OK"
5. Wait 10 minute. ASC complete

Maintaining your B Chat Breathalyzer

B Chat Maintenance

To keep your B Chat in top condition we recommend cleaning it regularly using a soft damp cloth.

After every breath test the B Chat automatically cleans the sensor but we recommend you should perform an ASC regularly to remove any contaminants from the sensor. You can find instructions for doing this on ASC

Be Careful

Take care not to drop the B Chat breathalyzer as sudden knocks can affect the unit's accuracy. If you have dropped your B Chat and feel that it is not reading correctly please contact us to arrange to have the unit serviced.

Technical Support

If you have any queries which are not covered in this manual or need assistance using your unit please contact our technical support email: enquiry@kiot.com.hk.

Re-Calibration

Like any sensitive instrument, your B Chat breathalyzer may require re-calibration after a period of use. We recommend your B Chat breathalyzer should be re-calibrated once a year or more often if you use it frequently or you suspect it may not be reading correctly. Please see page 18 for instructions on how to do this.

Accessories

The following accessories are available for your B Chat unit, which are available either from your local dealer or directly from www.Kiot.com

Accessory	Description	Price*
Pack of 50 Spare blow	Pack of 50 blow tubes for breath tests	USD 4.99

*Subject to change

Servicing

We will happily service your breathalyzer to keep it in top condition so that it is reading to the highest levels of accuracy and reliability. Servicing normally takes around 10 working days to complete as after each service your B Chat breathalyzer will be quality tested before leaving us . Service options are as below

2) Full Service

This service completely re-works your breathalyzer, including cleaning sterilization, re-calibration and replacing any parts that may be required. This service typically takes 10 working days to complete. Please contact your local distributor or email enquiry@kiot.com.hk for location and service charge

1) Re-Calibration

We will re-calibrate your B Chat breathalyzer to ensure it continues to read at it most accurate. We recommend this is done once every 12 months. Please contact your local distributor or email: enquiry@kiot.com.hk for location and service charge

Note on Environmental Protection

Electrical and electronic devices may not be disposed of with domestic waste. Consumers are obliged by law to return electrical and electronic devices at the end of their service lives to the public collecting points set up for the purpose or point of sale. Details to this are defined by the national law of the respective country. This symbol of the product, packing or instruction manual indicates that this product is subject to these regulations. By Recycling, re-using the

materials or other forms of utilizing old devices, you are making an important contribution to protecting our environment.

Although every effort has been made to ensure that the contents of this manual are accurate and reliable KIOT Ltd accept no liability for errors or omissions and we reserve the right to change information without notice.

B Chat breathalyzer by KIOT Limited limited warranty

WARRANTOR

This Limited Warranty is granted by and this Limitation of Liability is stipulated for the benefit of B Chat, product of KIOT Ltd, 15/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, N.T., Hong Kong.

WHAT THIS WARRANTY COVERS

1) KIOT Ltd. ("KIOT") warrants to you that the B Chat device ("Hardware") will be free from defects in workmanship and materials under normal use including Appropriate use of B Chat ("Defects") for a period of one (1) year (unless the country of purchase requires a longer period under local legislation) from the date that the Hardware was first purchased by you from an authorized KIOT dealer ("Warranty Period"). During the Warranty Period, the Hardware will be repaired or replaced at KIOT's choice ("Limited Warranty") without charge to you for either parts or labor. This Limited Warranty covers the replacement of the Hardware only. If the Hardware is repaired after the Warranty Period has expired (at your cost), the Warranty Period for the repair will expire six (6) months after the date of repair.

WHAT THIS WARRANTY DOES NOT COVER

2) The Limited Warranty does not apply to normal wear and tear, does not apply

when the Hardware is opened or repaired or replaced by any Hardware or part thereof by third party or damaged by: misuse, moisture, liquids, proximity or exposure to heat and accident, abuse, non-compliance with the instructions supplied with the Hardware, neglect or misapplication including **Inappropriate use of B Chat**. The Limited Warranty does not cover physical damage to the surface of the Hardware calibration of the Hardware.

HOW TO MAKE A WARRANTY CLAIM

3) In order to make a claim of a Defect, you must contact KIOT by email or telephone during the Warranty Period via enquiry@kiot.com.hk to explain the Defect and to obtain an RMA number (Return Materials Authorization) if necessary. You must return the Hardware during the Warranty Period, along with an explanation of the Defect, to the address provided to you by KIOT. If a defect arises and a valid claim under this Limited Warranty is received by KIOT after the first one hundred and eighty (180) days of the Warranty Period, KIOT is entitled to charge you for any reasonable shipping and handling costs made in connection with the repair or replacement of the Hardware. You must comply with any other return procedures stipulated by KIOT, if any.

YOUR LEGAL RIGHTS

- 4) Some countries may not allow the exclusion or limitation of damages. If any part of this Limited Warranty is held to be invalid or unenforceable, the remainder of the Limited Warranty shall nonetheless remain in full force and effect.
- 5) This Limited Warranty is the only express warranty made to you and is provided in lieu of any other express warranties or similar obligations (if any) created by any advertising, documentation, packing, or other communications.
- 6) Except for the Limited Warranty and to the maximum extent permitted by applicable law, KIOT and its suppliers provide the Hardware "AS IS AND WITH ALL FAULTS", and hereby disclaim all other warranties and conditions, whether express, implied or statutory, but not limited to, any (if any) implied warranties, duties or conditions of satisfactory quality, of fitness for a particular purpose, of reliability or availability, of accuracy or completeness of responses, of results, of workmanlike effort, of or failure to provide support or other services, information, software, and related content through the Hardware or otherwise arising out of the use of the Hardware. Also, there is no warranty or condition of quiet enjoyment, quiet possession, or non-infringement with regard to the Hardware. This exclusion does not apply to (i) any implied condition as to title and (ii) any implied warranty as to conformity with description.
- 7) This Limited Warranty does not affect any legal rights under applicable national legislation governing the sale of consumer goods.
- 8) This Limited Warranty cannot be transferred to any other person.
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Federal Communications Commission Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.
The device can be used in portable exposure condition without restriction.

LIMITATION OF LIABILITY

- 1) Neither KIOT Ltd ("KIOT") nor its suppliers shall be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise (including in each case, but not limited to, damages for the inability to use the equipment, loss of business, loss of profits, business interruption or the like arising out of the use of or inability to use the B Chat device ("Hardware") even if KIOT has been advised of the possibility of such damages.
- 2) Notwithstanding any damages that you might incur for any reason whatsoever (including, without limitation, all damages referenced herein and all direct or general damages in contract or tort or statutory requirements or anything else), the entire liability of KIOT and any of its suppliers shall be limited to the amount actually paid by you for the Hardware.
- 3) KIOT shall not be liable for (i) any fraud on the part of its employees and/or agents; or (ii) any fraudulent misrepresentation on the part of its employees and/or agents.
- 4) Notwithstanding the above, neither party's liability for death or personal injury resulting from its own negligence shall be limited.
- 5) If any of these terms shall become or be declared illegal, invalid or unenforceable for any reason whatsoever such term shall be divisible from these terms and shall be deemed to be deleted from them.

