INKBIRD
SMART HOME I SMART LIFE

IBBQ-4BW Bluetooth & Wi-Fi Smart Thermometer

User's Manual

Contents

01 | Introduction ----------01

02 | Connection ----------04

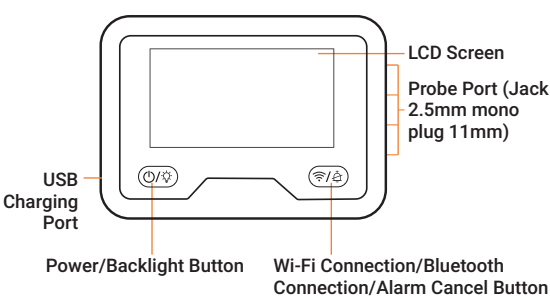
03 | Specification ----------10

04 | Battery and Accessories -------12

05 | Frequently Asked Questions ----14

01 | Introduction

1.1 Product Layout and Indicator Icons



	Silent Mode
	Ring Mode
	The backlight is on
	The Wi-Fi is turned off
always on	The device is connected to the Wi-Fi network successfully
!	The device is connected to the router but can not access the internet
disappeared	The device is not connected to the Wi-Fi network
Slowly flash	The device is in AP Mode
Fast flash	The device is in SmartConfig Mode
!	The Wi-Fi is being initialized or an error has occurred
always on	Bluetooth connected
flash	Waiting for paired
disappeared	Bluetooth not connected
always on	USB Power is connected
	100% of Battery level
	80%~99% of Battery level
	60%~79% of Battery level
	40%~59% of Battery level
	20%~39% of Battery level
flash	0%~19% of Battery level

H flash	The alarm will ring if the current temperature is higher than the preset temperature
L flash	The alarm will ring if the current temperature is lower than the preset temperature
- H -	The measure temperature is higher than 300℃/572℉.
- L -	The measured temperature is lower than-30℃/-22℉
flash	Timer alert

1.2 Buttons and Basic Operations

1.2.1 Power/Backlight button

1. Hold the (⏻/☼) button for 3 seconds to turn on/off the device.
2. Touch the (⏻/☼) button lightly to turn on/off the backlight.

1.2.2 Wi-Fi Connection/Bluetooth Connection/Alarm Cancel button

The device's Wi-Fi will be automatically turned on when the device is powered up.

1. Hold the (📶/🔔) button for 3 seconds to switch back and forth between AP mode and SmartConfig mode.
2. Hold the (📶/🔔) button for 3 seconds to reset the Wi-Fi network when the device is already connected to your phone via Wi-Fi .
3. Hold the (📶/🔔) button for 3 seconds to turn on Wi-Fi when it is off.
4. Click the (📶/🔔) button lightly to connect the device to your phone through Bluetooth when the device is found by your phone.
5. Click the (📶/🔔) button lightly to stop the alarm.

02 | Connection

2.1 Free App Download

Get BBQGo Pro from Google Play or App Store for free, or you can scan the QR codes below to download the app directly.

Android

iOS

Please make sure the following requirements are met to download the apps smoothly:
-Your iOS devices must be running iOS 11 or above to download the app.
-Your Android devices must be running Android 4.4 or above to download the app.

2.2 Bluetooth Connection and Wi-Fi Connection

The device support both Bluetooth Connection and Wi-Fi Connection.

When you are using the App to connect the device to your phone, you can use Bluetooth to interconnect them first, and then use the Wi-Fi network to connect them or you can choose a Wi-Fi network to pair the device to your phone first, the App will automatically connect the device to your phone via

Bluetooth when the phone is near to the device.

We recommend you to connect the device to your phone via Bluetooth first and then interconnect them quickly in Assisted Configuration Wi-Fi mode.

Note:

- Please enable location service on your mobile devices and give the BBQGO PRO app permission to access your location, the app can not connect the IBBQ-4BW to your phone without the permission.
- Please put the device as much as close to your phone and wireless router before the connection.

2.2.1 Bluetooth Connection

1. Turn on the device.
2. Open the app, click “Add Device”and select IBBQ-4BW.
3. Choose Bluetooth Connection and click “Next Step” to start searching the device.
4. Click the button on the device to complete the connection when the device is found by your app.

Note:

1. Please see 2.2.2 below if you still need to pair the device to your phone through Wi-Fi network.
2. The device will automatically connect to your phone through Bluetooth if it is already connected to your phone through Wi-Fi network.

2.2.2 Wi-Fi Connection

There are 3 methods to connect the device to your phone through Wi-Fi:

★ **SmartConfig Mode Connection** (the Wi-Fi icon flashes rapidly)

★ **Ap Mode Connection** (the Wi-Fi icon flashes slowly)

★ **Assisted Configuration Wi-Fi Connection** (the Wi-Fi icon flashes quickly or slowly)

Note:

1. The **Assisted Configuration Wi-Fi Mode** can only be used after the device is connected to your phone via Bluetooth.
2. Hold the button for 3 seconds to switch back and forth between AP mode and SmartConfig mode.
3. Please register an account and log in before pairing, then you could monitor the device anywhere anytime with your phone.

- **SmartConfig Mode Connection**

1. Turn on the device.
2. Connect your phone to a 2.4GHz Wi-Fi network.
3. Open the app, register or log in. Click “Add Device” and select IBBQ-4BW.
4. Choose Wi-Fi Connection.
5. Confirm that the Wi-Fi icon displayed on your device flashes rapidly and choose the Smart Config mode.

Note: Please hold the button for 3 seconds to reset Wi-Fi or change the Wi-Fi connection mode if the Wi-Fi icon does not flash quickly, and the device will need 5 seconds to process.

6. Enter the Wi-Fi password on your app and click “Next Step”.
7. The app will display “Pairing Success!” and the Wi-Fi icon will stay lit after finishing the connection.

- **Ap Mode Connection**

1. Turn on your device.
2. Connect your phone to a 2.4GHz Wi-Fi network.
3. Open the app, register or log in. Click “Add Device” and select IBBQ-4BW.
4. Choose Wi-Fi Connection.
5. Confirm that the Wi-Fi icon displayed on your device flashes slowly and choose the AP mode.

Note: Please hold the button for 3 seconds to reset Wi-Fi or change the Wi-Fi connection mode if the Wi-Fi icon does not flash slowly, and the device will need 5 seconds to process.

6. Enter the Wi-Fi password on your app and click “Next Step”.
7. Open your phone’s WLAN setting page and choose the “BBQ-4BW-LS-XXX” Wi-Fi network to connect.
8. Back to your app and confirm.
9. The app will display “Pairing Success!” and the Wi-Fi icon will stay lit after finishing the connection.

- **Assisted Configuration Wi-Fi Mode**

The Assisted Configuration Wi-Fi Mode can only be used when the device is already connected to your phone through Bluetooth.

1. Open the app, click the ⚙ button in the right top corner to enter into the setting page and then choose “Device Wi-Fi Config”.
2. Register an account and log in.
3. Click “Wi-Fi Connection”.
4. Choose Assisted Configuration Wi-Fi mode.
5. Enter the Wi-Fi network’s name and password, click “Confirm” to go to next step.
6. The app will display “Pairing Success!” after finishing the connection.

Note:

1. After connecting to the mobile phone via Wi-Fi, the device will connect to the cloud server. As long as the mobile phone can access the Internet (mobile data or any Wi-Fi), the user can remotely monitor the device and view data through the App anytime and anywhere.
2. The device has a protection function against the misoperation of Wi-Fi.
When the device is successfully connected to the user's phone, the device will memorize the Wi-Fi configuration information (Wi-Fi name and password) automatically.
Hold the (ᯤ/☝) button for 3 seconds to reset the Wi-Fi network and configure a new Wi-Fi network within 3 minutes to save the change. The device will reconnect to the previous Wi-Fi network in the following 2 situations:
(1) The device is not successfully connected to a new Wi-Fi network within 3 minutes after the reset.
(2) The device is turned off after the reset without Wi-Fi configuration.
3. Remove the device from the app will completely erase the network configuration information (Wi-Fi name and password), and

the device will not reconnect to the previous Wi-Fi network in any situation.
Please manually configure the Wi-Fi network within 5 minutes after removing the device from your app, or the or the device's Wi-Fi will be turned off automatically to save power.
4. Please put the device as close as possible to the wireless router when using Wi-Fi connection, the signal will be weaken and the connection will fail if the device is far away from the router or cross a wall.
5. Please put the device as close as possible to your phone when using Bluetooth connection, the signal will be weaken and the connection will fail if the device is far away from your phone or cross a wall.
6. if the device is placed on a metal table or close to a metal object, the signal will be weakened or even make the device unable to connect to the phone when using wireless connection.
7. Please keep the device away from metal objects as much as possible when using a wireless connection, preferably more than 1 meter above the ground.
8. This device only supports 2.4GHz Wi-Fi, but it is also compatible with Wi-Fi 4, Wi-Fi 5, Wi-Fi 6, and Wi-Fi 6E routers as long as they set 2.4GHz Wi-Fi on.
9. The device only supports WPA/WPA2 security encryption methods. The device will unable to connect to the Wi-Fi network if the router is set to other encryption methods.

03 | Specification

3.1 Product Parameters

Model: IBBQ-4BW
Dimension: 108×44×80mm
Net Weight: 183g
Screen Size: 70×40mm
Screen Type: Black-and-white LCD
Backlight Color: Orange
Magnetic Suction Grade: N30
Battery Type: Li-Ion Polymer Battery
Battery Capacity: 2500mah/9.25Wh
USB Type-C Input Voltage: DC 5V
USB Type-C Input Current: 1A Standard
Operating Temperature: 0℃~55℃/32℉~131℉
Temperature Unit: ℃/℉
Temperature Calibration Range:
-7℃~+7℃/-12.6℉~+12.6℉
Respond Time: 0.1sec (Min).
Temperature Refresh Rate: 4Hz
High/Low Temperature Alarm: The device and the app will alarm at the same time.
Alarm mode: Single edge trigger mode or repeat trigger mode.
Alarm Interval: The alarm interval can be set in repeat trigger mode.
Probe Connector: Jack 2.5mm mono plug 11mm
Number of Probe Channels: 4
System Requirements:
Android 4.2 or later, iOS 11 or later
short time measurement temperature range of the probe: -20℃~+250℃/-4℉~+482℉
Continuous Monitoring temperature range of

the probe: -30℃~+300℃/-22℉~+572℉
Probe Temperature resolution: 0.1℉
Probe Temperature accuracy:
±0.5℃ (maximum) form +25℃~+140℃
±1.0℃ (maximum) form 0℃~+185℃
±1.5℃ (maximum) from -10℃~+250℃
±2.0℃ (maximum) from -20℃~+300℃

3.2 Wireless Parameters

Bluetooth: Bluetooth BLE4.2
Bluetooth Radio Frequency:
2400-2483.5MHz
Bluetooth Maximum Output Power: +5dBm
Wi-Fi: 2.4GHz IEEE 802.11b/g/n (20MHz)
Spreading: 802.11b: CCK, DQPSK, DBPSK
802.11g: 64 QAM, 16 QAM, QPSK, BPSK
802.11n: BPSK, QPSK,16-QAM, 64-QAM
Wi-Fi Radio Frequency: 802.11b/g/n
(20MHz): 2.412~2.484GHz
Wi-Fi Number of Channels: 1-14@2.4GHz
(CH1-11 for US/CA, CH1-13 for EU/CN）
Wi-Fi Data Rate: 802.11b: 1, 2, 5.5, 11Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
802.11n: MCS0~MCS7
Wi-Fi Security: WPA™/WPA2™
Wi-Fi Maximum output power: +20dbm
Wi-Fi Maximum gain: 3dBi

04 | Battery and Accessories

4.1 Rechargeable Battery

1. IBBQ-4BW has adopted a 2500mAh/9.25Wh lithium battery.
2. The device will automatically shut off at 0% battery. The backlight and alarm can only be turned on when the battery is above 1%.
3. If the device is inserted with 4 temperature probes and connected to your phone with Wi-Fi network only, it can last up to 42 hours at an ambient temperature of 23°C without backlight and alarm.
4. Turning on the backlight, the alarm and the Wi-Fi will increase power consumption of the device.
5. The temperature of the probe will also affect the device's power consumption.
6. Turning off the backlight and the Wi-Fi will evidently decrease power consumption of the device.
7. The device will stand by for a long time if the Wi-Fi is turned off and the Bluetooth is not connected.
8. Please charge the device with a standard USB Type-C 2.0 cable or a standard USB Type-C 3.0 cable.
9. Please charge the device with a 5V/1A rated USB adapter. At an ambient temperature of 23°C, the battery can be charged to at least 40% in 60 minutes, 75% in 120 minutes and 98% in 180 minutes.
10. Working environment:
Discharge: -10℃~+60℃, the highest humidity

is 90%RH.
The best discharge temperature: +15℃~+25℃. The device can exert the highest performance of the lithium battery at this temperature. Charging: 0℃~+45℃, the highest humidity is 90%RH.
The best charging temperature: +20℃~+25℃. The battery can be charged to the maximum capacity in the shortest time at this temperature.
11. Using the device in an environment with a temperature higher than +40°C or lower than 0°C may affect battery life.
12. Temperature will affect the chemical activity of the battery, so it is normal that the battery level is inaccurate when you use the device in an environment below 0°C.
13. Storage Environment:
-20℃~+45℃, 65%±20%RH;
Ideal Storage Environment:
0°C~+30°C, 65%±10%RH.
Do not fully charge or fully discharge your device's battery — charge it to around 50%. If you store a device when its battery is fully discharged, the battery could fall into a deep discharge state, which renders it incapable of holding a charge. Conversely, if you store it fully charged for an extended period of time, the battery may lose some capacity, leading to shorter battery life.
Please charge the device to 50% power every six months if you want to store the device for more than six months.
14. Do not use the device in extremely high/low temperature environments.
15. Do not use the device in high humidity

environments as it may lead to battery damage.

4.2 Accessories

1. USB Cable

USB 2.0 Type-A to Type-C charge cable
Length: 50cm (about 1.64ft)

2. Temperature Probes

Probe cable length:1.2m (about 3.937ft)
Insert the Probes into the device when the device is turned on, the device will display the readings of the instant temperature. Please make sure the probes are inserted into the center of the food to get accurate temperature readings.

3. Probe Clamp

The clamp can be used to fix the probe and keep it stable to obtain a more accurate temperature.

05 | Frequently Asked Questions

What to do if my phone won't connect to Wi-Fi?

1. Please make sure your phone is not connecting to 5GHz band Wi-Fi, the device only support 2.4GHz band Wi-Fi now.
2. Please make sure that you have entered the correct Wi-Fi username and password.
3. Please enable location service on your mobile devices and give the BBQGO PRO app permission to access your location, the app can not connect the IBBQ-4BW to your phone

without the permission.
4. Please put the device, the router and the phone as close as possible.
5. The power of the device cannot be too low when configuring the Wi-Fi network.
6. Please try rebooting the device and router.
7. Please hold the button for 3 seconds to reset Wi-Fi or change the Wi-Fi connection mode if the Wi-Fi icon does not flash, and the device will need 5 seconds to process.
The Wi-Fi icon will flash quickly in SmartConfig mode and flash slowly in AP mode.
8. Please connect the device to your phone via Bluetooth first and then interconnect them quickly in Assisted Configuration Wi-Fi mode.
9. VPN and Network proxy servers are forbidden to use during the connection process as they may lead to connection failure.
10. Check the router settings, the device may be blocked or added to the blacklist.
11. Please see 2.2 above for more details.

Can I check the current temperature with my phone anytime anywhere?

Yes, as long as your phone is connected to the internet.

Why can't charge the device?

1. Please use USB 2.0 Type-C charge cable.
2. The device only supports standard USB charging. Fast charging is not available.

Are these probes waterproof?

No. Please do not put the whole probe into liquid, it may lead to inaccurate readings.

Please air dry it or put it into a 120°C degree oven for about half an hour after socking the whole probe into water. The probes can be washed with water but the interfaces should be kept dry.

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