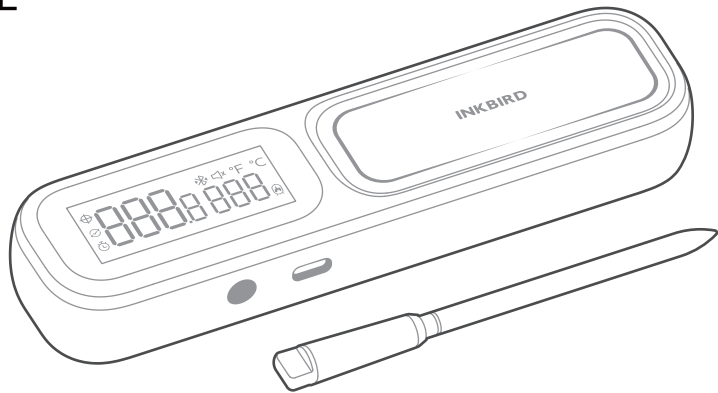


INKBIRD



GLOW Visual Cooking System

USER MANUAL



INT-51-B

SMART BLUETOOTH BBQ THERMOMETER WITH AMBIENT LIGHT



Please keep this manual properly for reference. You can also scan the QR code below to visit our official website for product usage videos. For any usage issues, please feel free to contact us at **support@inkbird.com**.

Wenn Sie eine Bedienungsanleitung in deutscher Sprache benötigen, scannen Sie bitte den QR-Code und besuchen Sie unsere Website, um sie zu erhalten und ein Video über die Verwendung des Produkts zu sehen.

Se avete bisogno di un manuale di istruzioni in italiano, scansionate il codice QR e visitate il nostro sito web per ottenerlo e vedere un video su come utilizzare il prodotto.

QR e visitate il nostro sito web per ottenerlo e vedere un video su come utilizzare il prodotto.

Si vous avez besoin d'un mode d'emploi en français, veuillez scanner le code QR pour visiter notre site officiel afin d'obtenir et de visionner la vidéo d'utilisation du produit !

Als je een Nederlandstalige handleiding nodig hebt, scan dan de QR-code om naar onze officiële website te gaan en bekijk de video over het gebruik van het product!

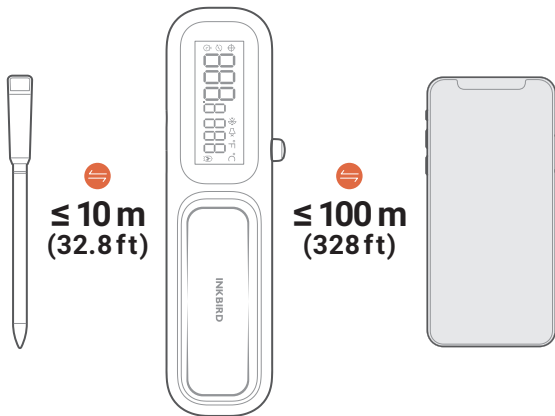
Si necesita el manual de instrucciones en español, escanee el código QR para ir a nuestro sitio web oficial y ver el vídeo sobre cómo utilizar el producto.

Usage Precautions

● Charging Base Introduction

The charging base not only has functions of storing and charging the probe, it also acts as a repeater (to regenerate and amplify signals for connection). During use, If there are obstacles or metallic objects in between, please ensure that the distance between the probe and the charging base does NOT EXCEED 10 METERS / 32.8 FEET. If the distance between the probe and the base is too far, the connection function and stability will be affected.

Connection Range (varies with obstacles)



● Probe Introduction

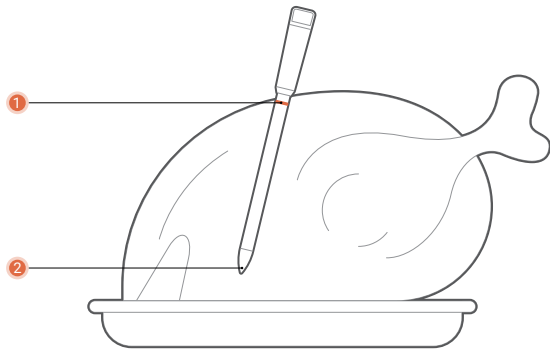
The probe is used to measure the internal temperature of food. A safe cooking line is engraved on the probe body and during cooking the probe should be inserted into the meat until the safe line is exceeded, keeping the probe tip unexposed as this will damage the probe.

1

Insert into the meat and beyond the safe line.

2

Keep probe tip unexposed.





Warm tips

- To quickly jump to a specific chapter page, click on the relevant text on the contents page.
- You can also use the thumbnail or document outline in the top left corner to quickly find a specific page.

CATALOGUE

01 Overview	01
02 Technical Specifications	01
03 Product Appearance/Screen Introduction	04
04 Power Button & Indicator Light Introduction	08
05 Battery Details & Maintenance	13
06 Operation Instructions	15

07 APP Installation & Connection	15
08 Cleaning and Maintenance	17
09 Important Notes/Warnings	18
10 Troubleshooting Guide	19
11 FCC Requirement	21
12 Customer Service	23

01 Overview

The INKBIRD INT-51-B Bluetooth BBQ Thermometer with Ambient Light gives you a completely new grilling experience by combining accurate temperature measurement with an intelligent ambient experience. With its distinctive infinity-mirror ambient light design, which offers six lighting effects and configurable light colors, you can create a cooking atmosphere that suits your tastes. This gadget allows for easy management and real-time temperature monitoring during the cooking process by pairing with the INKBIRD app and supporting Bluetooth connectivity. Every cooking session is made simpler and more accurate by the cutting-edge AI recipe guide feature, which offers cooking recommendations based on your ingredients and requirements.

02 Technical Specifications

Brand	INKBIRD
Model NO.	INT-51-B

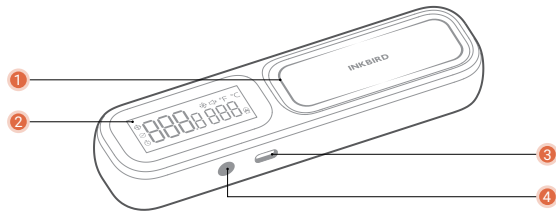
Bluetooth Function	BLE 6.0
Bluetooth Connection	960ft/290m (ultimate connection distance in open space)
Wireless Probe Waterproof Rating	IPX8 (dishwasher safe)
Wireless Probe's Sensor Number	2 sensors (1 food temperature sensor + 1 ambient temperature sensor)
Wireless Probe's Measurement Accuracy	Food sensor: $\pm 0.5^{\circ}\text{F}/\pm 0.3^{\circ}\text{C}$
	Ambient sensor: $\pm 9.0^{\circ}\text{F}/\pm 5.0^{\circ}\text{C}$
Wireless Probe's Measurement Range	Food temperature: $-10\text{-}100^{\circ}\text{C}/14\text{-}212^{\circ}\text{F}$ (For safe use, the probe will alert you when the temperature reaches $96^{\circ}\text{C}/205^{\circ}\text{F}$)
	Ambient temperature: $0\text{-}300^{\circ}\text{C}/32\text{-}572^{\circ}\text{F}$
Temperature Refresh Time	0.5 second

Wireless Probe's Battery Life	25 hours
Wireless Probe's Charging Time	25 minutes
Base's Battery Capacity	1000mAh rechargeable lithium battery
Base's Power Voltage	3.7V
Base's Battery Life	27 hours
Screen Type	LED screen
Screen Size	67.5*32mm
Offline Data Storage	The base can store 60 minutes of temperature data, which is automatically uploaded to the app when a connection is established
Weight	127.5g

Size	170.9*47.8*28.2mm
Package Contents	Wireless Probe*1, Base*1, USB-C Data Cable*1, User Manual*1, CTI Calibration Certificate*1

03 **Product Appearance/Screen Introduction**

● **Product Appearance**

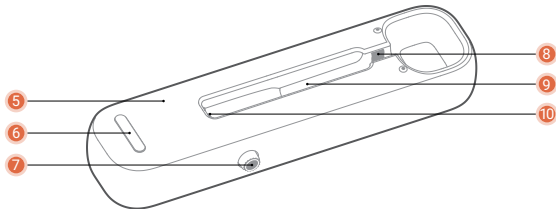


① Infinity-mirror ambient light

② LED screen

③ Type-C charging port

④ Power button



⑤ Built-in magnet

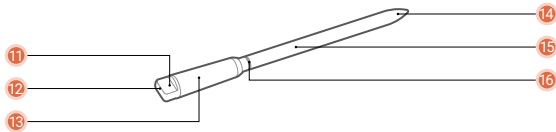
⑥ Anti-slip pad

⑦ Knob button

⑧ Charging electrode plate

⑨ Probe charging position

⑩ Charging contact point



⑪ Ambient temperature sensor (max 572°F/300°C)

⑫ Charging contact point

⑬ Zirconia ceramic handle

⑭ Food temperature sensor (max 212°F/100°C)

⑮ Food-grade stainless steel

⑯ Safe cooking line

● Screen Information Reference

		Temperature Icon & Number	
		 Lights up	The preset temperature
			The ambient temperature currently detected
		-H-	The current temperature is outside the temperature range of the probe.
	The current temperature is below the temperature range of the probe.	Number flashing	The current temperature has reached the preset temperature
Connection Icon			
 Flashing	The device's Bluetooth pairing is in progress.	 Stay lit	The device's Bluetooth has been connected.

 Disappeared	The device is not connected or is disconnected from Bluetooth.	 Stay lit	The probe is connected.
 Dim	The probe is not successfully paired/disconnected.	 Flashing	The probe is in the connecting/pairing process.
Sound & Temperature Unit & Timer			
	The device's buzzer is turned on.		The device's buzzer is turned off.
°F / °C	Temperature unit on the device		Lights up when the timer is set; disappears when the timer is not set.
 Flashing	The timer is reached.		
NOTE: If no cooking menu is set, the screen will dim after 30 seconds of inactivity and the device will automatically switch off after 10 minutes of inactivity. When the cooking menu is set, the screen dims after 5 seconds by default, but this can be changed in the application.			

04 *Power Button & Indicator Light Introduction*

● Power Button Operation



Power Button	Press and hold for 3 seconds to switch the device on or off.
	Press and hold for 30 seconds to reset the device.
	While the screen is on, press the button during cooking to switch to the preset temperature display; press again to return to the real-time temperature.

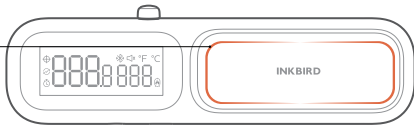
Knob Button



Knob Button	Press once to turn on or change the lighting effect. The light will turn off after all six lighting effects have been shown in sequence.
	Rotate to adjust the lighting brightness, right to increase and left to decrease. The factory default brightness is 20%.
	Press and hold for 3 seconds to activate or deactivate the device's sound.
Cancel Alarms	When the device is in an alarm state, press either the power button or the knob button to dismiss the alarm.
Screen Wake-up	When the screen is dimmed, press the power button or the knob button once to wake up the screen.
Sleep & Awake	When the device is sleeping but not off, press the power button or the knob button once to wake up the screen.

- **Infinity-Mirror Ambient Light Reference**

Infinity-mirror ambient light



Lighting Effects	Horizontal Marquee (Factory default brightness: 20%)	Horizontal Gradient
	Color Cycling	Rainbow Wave
	Single-Color Breathing: Default white; color adjustable via App	Single-Color Static: Default white; color adjustable via App

Status Reminder	Base	Battery Level	When the base's battery level drops to 29% or below, the ambient light will slowly flash orange three times and then return to its original lighting effect.
			When the base's battery level drops to 9% or below, the ambient light turns red. At 3% or below, the ambient light starts flashing. It continues flashing until the base starts charging or shuts down.
		Battery Charging	While the base is powered on, the ambient light breathes green during charging and remains solid green once the base is fully charged. It returns to its original lighting effect when the power cable is unplugged.
			While the base is powered off, the ambient light breathes green three times and then fades out.
	Probe	Battery Level	When the probe's battery level drops to 10% or below, the ambient light on the base will flash orange three times.
			When the probe's battery level drops to 3% or below, the ambient light on the base will flash red for 10 seconds and then return to its original lighting effect.

Status Reminder	Probe	Battery Charging	While the base is powered on, the ambient light turns green during probe charging. It remains solid green for 2 seconds and then returns to its original lighting effect.
			When the base is powered off, the ambient light will not light up during probe charging.
		Temperature Alarms	Preset Food Temperature: When the food reaches your preset temperature, the light turns solid orange and remains on until you finish cooking or cancel the alarm.
			Preset Ambient Temperature: When the cooking ambient temperature exceeds the preset target temperature or falls outside your preset temperature range, the light flashes orange until the alarm is dismissed or the temperature returns to the preset range.
		Ultra Low Temperature	When the probe triggers a low-temperature alarm, the light turns solid blue and remains on until the alarm is manually canceled or the detected temperature returns to the normal range. The light then returns to its original lighting effect.
		Ultra High Temperature	When the probe (meat and ambient) triggers a high-temperature alarm, the light turns solid red. It returns to the original lighting effect after the alarm is manually dismissed or the detected temperature returns to the normal range.



Battery Details & Maintenance

● **Battery Details**

- The base of the INKBIRD INT-51-B is equipped with an integrated 1000mAh lithium battery. At factory defaults—with ambient light brightness set to 20% and a 10-minute auto-off timer—the base delivers a runtime of approximately 27 hours. Continuous operation of the ambient light will accelerate power drainage, substantially decreasing overall device battery longevity.
- If the battery level of the base is low, please use the supplied type-C charging cable to charge this product. It can be fully charged in approximately 3 hours.
- The base can charge the probe. The probe can be fully charged in 25 minutes and used continuously for 25 hours. Prolonged exposure to high temperatures will reduce the battery life of the probe. When the probe battery is low, it is disconnected from the base. The base will automatically turn off after 10 minutes of disconnection to conserve power.
- If the battery of the device is low, the temperature measurement results may be inaccurate, the alarm sound may be disabled, the screen display effect may be degraded, and the device may be disconnected from the smartphone app. Please charge the base and the probe immediately.

● **Precautions For Use**

- Do not attempt to disassemble or replace the internal battery yourself.
- Do not use the probe in environments outside of the specified temperature range. If the temperature in the cooking environment exceeds 300°C (572°F) or falls below -10°C (14°F), it may reduce the probe battery life or damage the battery.
- During use, ensure that the base is not placed on a hot stove, working oven, or grill surface. Do not put it inside an oven or grill, as this could cause damage to the product or even personal injury.
- Please note that the probe is waterproof, but the base is not. Do not use or store this product in harsh weather or high-humidity environments. Do not clean the base with running water or place it in a dishwasher or water sink, as this may cause battery damage due to water seepage.
- Do not use a charging cable that is not 5V 1A to charge this device. This may result in damage to the product or charging failure.
- If you turn on the device and leave it unused for a long time, it will automatically switch off to save power. However, if you will not use the device for an extended period, please charge the battery to 50% capacity to prevent it from entering a deep discharge state. Do not fully charge the device before storing it, as this may shorten the battery lifespan.

06 *Operation Instructions*

Warning: Before using the INT-51-B for the first time, please ensure that it has sufficient power and that you have read the important safety information in this manual.

- (1) Press and hold the power button for 3 seconds to turn on the device.
- (2) Prepare a smartphone running a system above iOS12 or Android 7.1, download the INKBIRD app and complete the connection (see section 7 APP INSTALLATION & CONNECTION in this manual).
- (3) Take out the probe and insert it into the center of the food, ensuring that it is inserted beyond the safe cooking line. Set the menu and desired level of doneness in the app. When the temperature reaches the target point, both the app and the thermometer will alert you simultaneously that your food is ready to enjoy.

07 *APP Installation & Connection*

● **INKBIRD App**

Search for the INKBIRD App from Google Play or App Store to get it for free, or you can scan the QR code to download it directly.



Note:

- (1) Your iOS devices must be running iOS 12.0 or above to download the app smoothly.
- (2) Your android devices must be running android 7.1 or above to download the app smoothly.
- (3) **APP Location Permission Requirement:** We need to obtain your location information to discover and add nearby devices. INKBIRD promises to keep your location information strictly confidential. And your location information will only be used for the location function of the App and will not be collected, used, or disclosed to any third party. Your privacy is very important to us. We will abide by relevant laws and regulations and take reasonable security measures to protect your information security.

● **Registration**

Step1: Registering an account is necessary before using the INKBIRD app for the first time.

Step2: Open the app, select your Country/Region, and a verification code will be sent to you.

Step3: Enter the verification code to confirm your identity, and the registration is complete.

● **How To Connect**

Open the INKBIRD app and click "+" on the top right corner to add a device. Then, follow the app instructions to complete the connection. Please remember to put the device as close as possible to the smartphone during the connection process.



Cleaning and Maintenance

- (1) Please note that the probe is waterproof but the base is not. After use, clean the probe under running water or in a dishwasher. Avoid using corrosive detergents as they can damage the probe.
- (2) After cleaning the probe, wait for it to dry before placing it back on the charging position on the base to avoid device damage caused by rusty electrode plates or water seepage.
- (3) Please note that the base is not waterproof. Do not rinse or submerge it with water. If necessary, use a slightly damp cloth to wipe the base and prevent water from seeping and causing damage to the product.
- (4) For storage, please place the probe inside the charging base and store the entire unit in a shady and cool place away from children. Improper storage can result in property damage or personal injury.



Important Notes/Warnings

- (1) Do not use the probe in a microwave oven or pressure cooker. During use, make sure that the probe is inserted into the center of the food and make it deep enough to exceed the safe cooking line.
- (2) The base has a Bluetooth signal relay function. When in use, the base should be placed within 10 meters of the probe. If there is metal or other obstructions, it should be placed closer to maintain the connection.
- (3) Do not expose the probe directly to fire or burning charcoal. If the probe falls out of the food, stop heating immediately and remove the probe after it has cooled down.
- (4) When using, make sure that the base stays away from fire and heat sources. Do not expose it to direct sunlight, nor place it to the surface of an oven or grill. And, do not put the base inside the oven or grill.
- (5) During or at the end of cooking, please do not touch the overheated probe with bare hands. If necessary, wear heat-insulated gloves to avoid burns.
- (6) The product is designed exclusively for use as a food thermometer. It is not recommended for any other purposes.

10 Troubleshooting Guide

Issues	Possible Solutions
What if my device cannot connect to Bluetooth?	(1) Make sure that your smartphone or tablet is running iOS12 / Android 7.1 or later. (2) Please ensure that the Bluetooth function is enabled on your smartphone or tablet, that the positioning function is enabled and the application is allowed to obtain location information, and that the device has sufficient power. (3) Make sure that the distance between the probe and the base is not more than 10 meters (32.8 feet). Place your smartphone or tablet as close to the thermometer as possible, avoiding any metal or obstructions. (5) Make sure that the thermometer is disconnected from any other smartphones and that the Bluetooth function is disabled on those smartphones. (6) Turn off any other Bluetooth devices or disable their Bluetooth functions within the connection range. If the issue persists after the above steps, please contact our after-sales team.

Why Cannot Charge The Base?	(1) This product does not support fast charging. Please use the supplied charging cable to charge this product. If you need a different charging cable, please choose a 5V 1A type C cable. (2) Check the charging port for water ingress or a wet surface. If so, wipe dry with a tissue or air dry with cool wind. (3) The base is not waterproof. Do not rinse under running water to avoid damage to the product.
Why Is The Probe Reading Incorrectly?	(1) Use the app to calibrate the temperature to where you think it is right. (2) Check if the current temperature exceeds or has once exceeded the probe measurement range, causing probe damage. (3) Do not immerse the probe in water for long periods. This product is only intended for use in food and is not recommended for any other purpose. (4) Check if the probe is disconnected. If so, wait for the probe to reconnect automatically, or restart the device and wait for the probe to reconnect. (5) If the probe has been damaged and requires replacement, please go to the settings page of the application to delete the probe and pair with a new one.

Why Cannot Charge The Probe?	(1) The probe can only be charged using the charging base and does not support other charging methods. (2) Make sure the probe is fully inserted into the charging slot. A “beep” sound will be heard, and the light will turn green for 2 seconds before returning to its normal working light effect, indicating that charging is successful. (3) Check that the probe has not been used previously at a temperature that exceeds its sustainable range. Purchase a replacement if necessary. (4) Check that the base does not enter the battery protection state due to low battery power, which causes failure to charge the probe. (5) Check that the probe or the charging plate at the base is not dirty or covered by oil stains.
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11 FCC Requirement

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

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SMART BLUETOOTH BBQ THERMOMETER WITH AMBIENT LIGHT				
Model NO.: INT-51-B	Wireless Probe	FCC ID: 2AYZD-INT-33	Charging Base	FCC ID: 2AYZD-33-BW

12 Customer Service

This item carries a 1-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of INKBIRD, be either repaired or replaced without charge. For any problems in use, please feel free to contact us at **support@inkbird.com**. We will do our best to help you.

Shenzhen Inkbird Technology Co., Ltd.

support@inkbird.com

Consignor: Shenzhen Inkbird Technology Co., Ltd.

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Manufacturer: Shenzhen Inkbird Technology Co., Ltd.

Factory Address: 5th and 6th Floor, Building 138, No. 71, Yiqing Road, Xianhu Community, Liantang Street, Luohu District, Shenzhen, Guangdong, China

MADE IN CHINA
DESIGNED BY INKBIRD



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