

INKBIRD

USER MANUAL



INT-221-BW

SMART MODULAR DUAL-MODE WIRELESS BBQ THERMOMETER



Please keep this manual properly for reference. You can also scan the QR code 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.



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.

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01 Overview

The INKBIRD INT-22I-BW is a smart, modular, dual-mode, needle-type wireless thermometer. The screen and base are connected via a magnetic attachment, allowing free movement and portable, flexible use. Its base supports both WiFi 2.4G and Bluetooth 5.4 modes for remote control and smart management via a smartphone app, making the cooking process easier and more efficient. Whether for family parties or everyday cooking, this food thermometer makes your cooking more accurate and convenient, letting you enjoy the fun and convenience of science and technology.

02 Technical Specifications

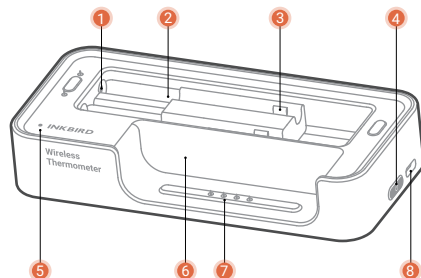
Brand	INKBIRD		
Model	INT-22I-BW		
Base Connection Modes	Bluetooth	Version	BLE5.4
		Connection	492ft/150m (the longest range in an unobstructed open area)
	WiFi	Band	WiFi 2.4G
		Connection	The device should be within 328 feet/100 meters of WiFi router; no distance limit for smartphones
	Note: The distance between the probe and the base must not exceed 10 meters (32.8feet). If there are obstacles in between, the distance should be shortened to maintain a stable connection. (The base serves as a signal repeater.)		

Probe Protection Rating	IP67 (dishwasher safe)
Sensor Quantity	2 sensors (1 food temperature sensor + 1 ambient temperature sensor)
Probe Measurement Accuracy	Food sensor: $\pm 0.5^{\circ}\text{F}/\pm 0.3^{\circ}\text{C}$
	Ambient sensor: $\pm 9.0^{\circ}\text{F}/\pm 5.0^{\circ}\text{C}$
Temperature Measurement Range	Food sensor: $-10-100^{\circ}\text{C}/14-212^{\circ}\text{F}$ (For safe use, the probe will alert you when the temperature reaches $96^{\circ}\text{C}/205^{\circ}\text{F}$)
	Ambient sensor: $0-300^{\circ}\text{C}/32-572^{\circ}\text{F}$
Probe's Battery Life	25 hours of continuous cooking
Probe's Charging Time	25 minutes
Probe's Battery Voltage	3.8V
Base's Battery Capacity	2000mAh lithium battery
Base's Battery Voltage	3.7V
Base's Battery Life	Bluetooth mode: 192 hours
	WiFi mode: 80 hours
Offline Data Storage	The base stores cooking data for the last 60 minutes and automatically uploads it to your smartphone when connected.

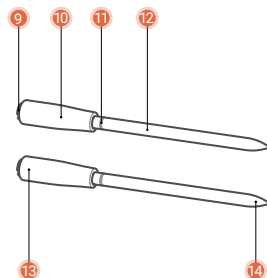
Screen Model	INT-22B		
Screen Type	HD Backlit LCD		
Screen Usage Method	Bluetooth	Version	BLE5.4
		Connection	794ft/242m (the longest range in an unobstructed open area)
Screen's Battery Capacity	600mAh lithium battery		
Screen's Battery Voltage	3.7V		
Screen's Battery Life	600 hours		
Screen Size	70*40mm		
Resolution Ratio	1°C/°F		
Total Weight	Total: 269.5g	Base (w/ dual probes): 186g	
		Screen: 83.5g	
General Dimensions	Base: 158.5*73.1*31.0mm		
	Screen: 87.6*64.9*15.7-22.8mm		
Package Contents	Device (Base+Screen+Black Probe*1+Orange Probe*1), USB-C Charging Cable, User Manual, Quick Start Guide		

03 Product Introduction

● Product Appearance



- ① Probe Charging Contact Point
- ② Probe Charging Position
- ③ Charging Electrode Plate
- ④ Power Button
- ⑤ Indicator Light
- ⑥ Screen Charging Position
- ⑦ Screen Charging Electrode Plate
- ⑧ Type-C Charging Port

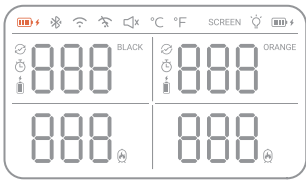


- ⑨ Charging Contact Point
- ⑩ Alumina Ceramic Handle
- ⑪ Safe Cooking Line
- ⑫ Food-grade Stainless Steel
- ⑬ Ambient Temperature Sensor (Max 572°F/300°C)
- ⑭ Food Temperature Sensor (Max 212°F/100°C)



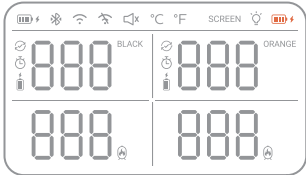
- ⑮ Backlit HD LCD
- ⑯ Power button
- ⑰ Charging Electrode Plate

● Screen Display Description

Base Display Icons Definition			
		 Disappears	The device is disconnected from Bluetooth.
		 Flashing	The device's WiFi is pairing with the network.
		 Remains on	The device's WiFi has been connected.
 Left	Current battery level.	 Remains on	The WiFi connection fails.
 Left	The device is charging.	 Disappear	The device is disconnected.
 Left	The device battery is low.		The device's buzzer is turned on.
 Flashing	The device's Bluetooth pairing is in progress.		The device's buzzer is turned off.
 Remains on	The device's Bluetooth has been connected.	°C / °F	Device temperature unit.

Probe Status Display			
	Lights up when the timer is set, goes out when the timer is not set.		Probe's current battery life.
 Flashing	The timer is reached.		The probe is charging.
 Remains on	Probe connection/pairing is successful.	 Flashing	The probe's battery is exhausted.
 Flashing	The probe is in the connecting/pairing process.	BLACK ORANGE	Probe display area of corresponding color.
 Goes out	Probe connection/pairing is unsuccessful.		
Probe Digital Bit Display			
-H-	The current temperature is outside the temperature range of the probe.	- - -	The probe is in the compartment / is not connected.
-L-	The current temperature is below the temperature range of the probe.	Digits Flashing	The preset temperature is currently reached.

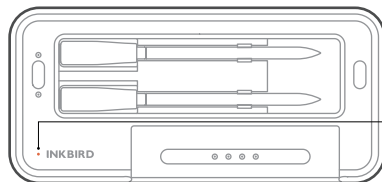
Screen Status Display

		" SCREEN " Flashing	The device is pairing.
		" SCREEN " Stays on	The device has been connected.
		" SCREEN " Disappears	The device is disconnected/has been disconnected from Bluetooth.
 Right	The current battery level is displayed.	 Stays on	The screen backlight is turned on.
 Right	The device is charging.	 Disappears	The screen backlight is turned off.
 Right	The device battery is low.		

Indicator Light Definition

Battery Level

- The current temperature is outside the temperature range of the probe.
Green: The battery is sufficient. (30%+)
Yellow: The battery is insufficient. (10~29%)
Red: The battery is low. (0~9%)



Indicator Light

- 2) When the battery in the base falls below 30%, the yellow light flashes slowly 3 times.
- 3) When the battery in the base falls below 10%, the red light stays on.
- 4) When the battery in the base is about to be exhausted, the red light flashes until the device switches itself off.

- **Battery Charging**

When the base is charging, the green light flashes at the breathing rate and remains lit when fully charged.



Key Definitions

- **Button on the Base**

- **Power Button**

Press and hold for 3 seconds to power on or off the device.

- **Reset**

Press and hold for 30 seconds to reset the device.

- **Indicator Light**

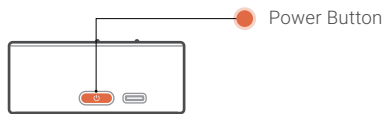
Press once to awake the indicator light to check the battery level of the base.

- **Dismiss Alarm**

When the device is sounding an alarm, press the button to dismiss the alarm.

- **Sleep & Awake**

If no menu has been selected for the probe, the base will automatically enter low-power mode after 15 minutes. Press the button once to wake it up; otherwise, it will automatically shut down.



- **Button on the screen**

- **Power Button**

Press and hold for 3 seconds to power on or off the device.

- **Backlight**

Double press to switch the backlight on or off.

- **Sleep & Awake**

If the screen is disconnected from the base and left unused for 15 minutes, it will go into sleep mode to save power. Press the button once to wake it up; otherwise, it will automatically shut down.

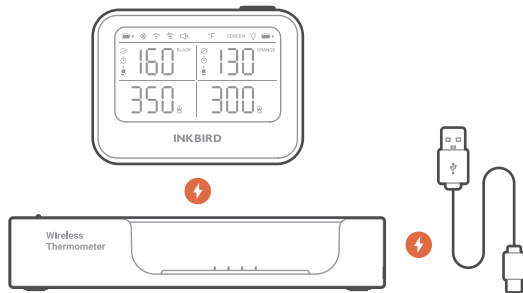


05 **Battery Details & Maintenance**

- **Battery Details**

- The base of the INKBIRD INT-22I-BW features a built-in 2000 mAh lithium battery that provides up to 192 hours of continuous use via a Bluetooth connection and up to 80 hours via a Wi-Fi connection. The screen incorporates a 600 mAh lithium battery, enabling up to 600 hours of continuous use via a Bluetooth connection.

- When the base battery is low, use the included Type-C charging cable to charge the it. It takes approximately 3 hours to fully charge. The screen can only be charged via the base. When the screen battery is low, place it correctly on the base to charge it magnetically. This takes approximately 2.5 hours.



- The probe takes 25 minutes to charge fully, providing 25 hours of continuous use. However, exposing the probe to constant high temperatures will reduce its battery life.
- When the device battery is critically low, it may cause inaccurate temperature measurement, the alarm may fail to sound, the screen display may deteriorate, and the device may disconnect from the smartphone app. Please recharge the base, screen, and probe promptly.

● **Precautions For Use**

- (1) Do not attempt to disassemble or replace the internal battery yourself.
- (2) 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.
- (3) 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.
- (4) Please note that although the probe is waterproof, the base and screen are not. Do not use or store the product in extreme weather conditions or environments with high humidity. Do not rinse the base under running water or place it in a dishwasher, sink, or similar location, as this may result in water entering the base and damaging the battery.
- (5) Only use a 5V 2A charging cable to charge the base, as using a different cable may cause damage to the product or prevent it from charging.
- (6) 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 APP Installation & Connection

● INKBIRD APP



Search 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 later 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**

- (1) Open the INKBIRD app and click “+” on the top right corner to add a device.
- (2) Then, follow the app instructions to complete the connection.
- (3) Please remember to put the device as close as possible to the smartphone during the connection process.



07 Cleaning and Maintenance

- (1) Please note that the probe is waterproof but both the base and screen are not. After use, clean the probe under running water or in a dishwasher. Avoid using corrosive detergents as these 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 neither the base nor the screen is waterproof. Do not rinse or submerge them in water. If necessary, wipe the base and screen with a slightly damp cloth to prevent water seeping in 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.



08 Important Notes/Warnings

- (1) The probe and base, and the screen and base, are prepared at the factory. After switching on, remove the screen and the corresponding area will display the “SCREEN” icon. Remove the probe and the corresponding area of the screen will show the temperature measured by that probe, along with the “🔄” icon. Configure the probe's menu settings in the app to begin using it.

- (2) 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.
- (3) 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.
- (4) 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.
- (5) 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.
- (6) 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.
- (7) The product is designed exclusively for use as a food thermometer. It is not recommended for any other purposes.



09 Troubleshooting Guide

Issues	Possible Solutions
Why Cannot Connect 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.

	(4) Make sure that the thermometer is disconnected from any other smartphones and that the Bluetooth function is disabled on those smartphones. (5) Turn off any other Bluetooth devices or disable their Bluetooth functions within the connection range. Note: If your problem persists, please contact our customer service.
Why Cannot Connect WIFI?	(1) Make sure that your smartphone has Bluetooth and WiFi enabled and connected to the device via Bluetooth. Then, follow the app's instructions to establish a WiFi connection. (2) Please ensure that you have entered the correct WiFi username and password and that the network is stable. Please note that the device only supports 2.4 GHz WiFi networks and does not support 5 GHz networks. (3) During the connection process, please keep the device, router and smartphone as close to each other as possible. (4) Do not place the device on metal surfaces or near metal objects. Leave it at least 1 meter above the ground. (5) During the connection process, any VPN or agent proxy servers should be forbidden, otherwise the connection will fail. (6) Try to reboot both the device and router. If the device has connected to WiFi before, you can go to the setting page of the app to reset WiFi. (7) Press and hold the knob button for 30 seconds to force reset the device. (8) Please verify if the router is blocking or blacklisting the device. (9) After turning on the device, simultaneously press and hold the power button and function for 10 seconds to restore factory settings. Note: If your problem persists, please contact our customer service.

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 probes can only be charged at the base. To recharge, ensure that they are fully placed on the charging position and successfully connected to the contact points. (2) Check that the probe or the charging plate at the base is not dirty or covered by oil stains. (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.
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 2A 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 Cannot Charge The Screen?	(1) The screen can only be charged via the charging base. Make sure that the screen is fully seated in the charging position and that the contacts are connected correctly. (2) Please check that the base unit is switched on and has not entered battery protection mode due to low power, which would prevent it from charging the screen. (3) Please check that the charging contacts on the screen and base are not dirty or covered in grease.
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10 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.

IC Warning

This device complies with Innovation, Science and Economic Development Canada's License exempt RSS standard(s). 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 of the device.

Cet appareil est conforme aux normes RSS d'Innovation, Sciences et Développement économique Canada en matière d'exemption de licence. Son fonctionnement est soumis aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent appareil est conforme. Après examen de ce matériel aux limites d'intensité de champ RF, les utilisateurs peuvent, sur l'exposition aux radiofréquences et la conformité, acquérir les informations correspondantes. La distance minimale du corps à utiliser le dispositif est de 20cm.

SMART MODULAR DUAL-MODE WIRELESS BBQ THERMOMETER					
Model NO.: INT-22I-BW	Wireless Probe	FCC ID: 2AYZD-INT-33	Charging Base	FCC ID: 2AYZD-33-BW	CONTAINS FCC ID: 2ANDL-WBR3D
		IC: 30368-INT33		IC: 30368-33BW	CONTAINS IC: 23243-WBR3D
		HVIN: INT-33		HVIN: INT-33-BW	
Model NO.: INT-22B	Charging Base	FCC ID: 2AYZD-14-BW			
		IC: 30368-14BW			
		HVIN: INT-14-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.

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MADE IN CHINA
DESIGNED BY INKBIRD



V2.0