

USER MANUAL



INT-54-BW

DUAL MODE WIRELESS BBQ THERMOMETER



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.

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 Glow Series INT-54-BW is a dual-mode, four-probe wireless BBQ probe thermometer that seamlessly integrates precise temperature measurement, smart monitoring, and interactive lighting. With its multi-probe temperature monitoring system, you can simultaneously track the temperatures of multiple ingredients and the ambient cooking environment. This keeps you fully informed of the cooking process in real time. The device features a unique infinity mirror ambient light ring that offers a variety of lighting effects and customizable colors. The lights dynamically change based on the cooking status, translating temperature and cooking progress into visual cues. This feature enables you to quickly grasp the current cooking status without constantly checking the screen. When paired with the companion app, you can track real-time temperature changes, set cooking targets, receive smart alerts, and access the new AI recipe features. By combining precise temperature measurement with visual interaction, the device delivers a smarter, more intuitive, and more enjoyable BBQ experience.

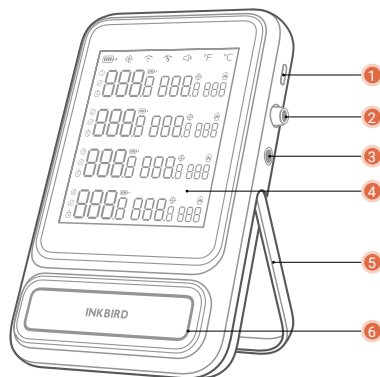
02 Technical Specifications

Brand	INKBIRD		
Model No.	INT-54-BW		
Connection Methods	Bluetooth	Version	BLE6.0
		Connection	853ft/260m(the largest range in an obstacle-free area)
	WiFi	Band	WiFi 5GHz, compatible with 2.4GHz
		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(32.8ft). 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 Ratin	IPX8 dishwasher safe (Please note that the base is not waterproof.)		
Sensor Quantity	2 sensors (1 food temperature sensor + 1 ambient temperature sensor)		

Probe Measurement Accuracy	Food sensor: $\pm 0.4^{\circ}\text{F}/\pm 0.2^{\circ}\text{C}$ Ambient sensor: $\pm 9.0^{\circ}\text{F}/\pm 5.0^{\circ}\text{C}$
Temperature 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 Refreshing Time	0.5 sec
Probe's Battery Life	35 hours
Probe's Charging Time	25 minutes
Base's Battery Capacity	4150mAh rechargeable lithium battery
Base's Battery Voltage	3.7V
Base's Battery Life	Bluetooth 41 hours, WiFi 35 hours
Screen Type	Full-view HD VA LCD with backlight
Screen Size	72*82mm
Display Resolution	Meat Temperature: $0.1^{\circ}\text{C}/^{\circ}\text{F}$ Ambient Temperature: $1^{\circ}\text{C}/^{\circ}\text{F}$
Data Storage	The base stores cooking data for the last 120 minutes and automatically uploads it to your smartphone when it is reconnected.
Weight	395.5g
Dimension	168.6*110.7*32.3mm
Package Contents	$\Phi 5\text{mm}$ Wireless Dual-sensor Probes*4, Base*1, USB-C Charging Cable*1, User Manual*1, Quick Start Guide*1, CTI Calibration Certificate

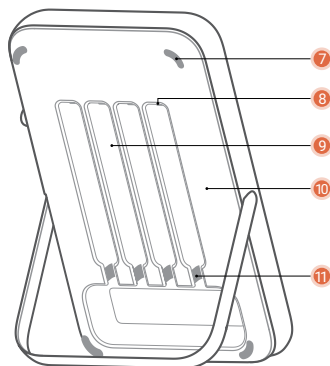
03 Product Introduction

• Product Appearance



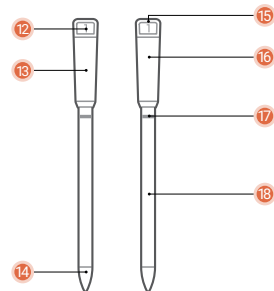
• Base

- ① Type-C charging port
- ② Knob button
- ③ Power button
- ④ Full-view backlit LCD
- ⑤ Stand
- ⑥ Infinity-mirror ambient light



• Base

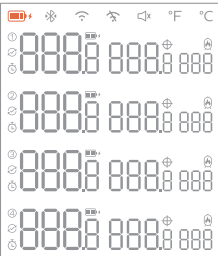
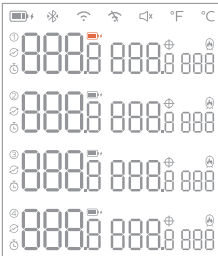
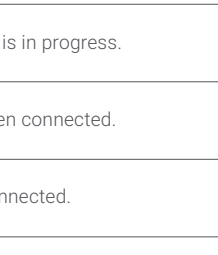
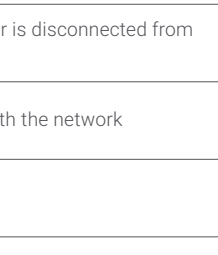
- ⑦ Anti-slip pads
- ⑧ Charging contact point
- ⑨ Probe charging position
- ⑩ Magnets
- ⑪ Charging electrode plate



• Probe

- ⑫ Number marks
- ⑬ Ambient temperature sensor (MAX 572°F/300°C)
- ⑭ Food temperature sensor (MAX 212°F/100°C)
- ⑮ Charging contact point
- ⑯ Zirconia ceramic handle
- ⑰ Safe cooking line
- ⑱ Food-grade stainless steel

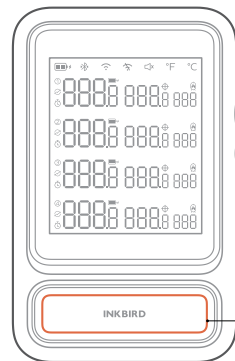
● Screen Display Reference

Battery Icons					
 Big	Current battery level		 Small	Current probe's battery	
 Big	The device is charging.		 Small	The probe is charging.	
 Big	When flashing, the device's battery is low.		 Small	When flashing, the probe's battery is low.	
Connection Icons					
 Flashing	The device's Bluetooth pairing is in progress.		 Disappeared	The device is not connected or is disconnected from Bluetooth.	
 Stay lit	The device's Bluetooth has been connected.		 Flashing	The device's WiFi is pairing with the network	
 Stay lit	The device's WiFi has been connected.		 Stay lit	The WiFi connection fails.	
 Disappeared	The device has been disconnected from WiFi.		 Stay lit	The probe is connected.	
 Dim	The probe is not successfully paired/disconnected.		 flashing	The probe is in the connecting/pairing process.	
Temperature Icons & Numbers					
①/②/③/④	Temperature zones for probes with corresponding numbers.		Preset temperature		

Temperature Icons & Numbers			
	Currently detected ambient temperature.	Number flashing	The current temperature has reached the preset temperature
-H-	The current temperature is above the temperature range of the probe.	-L-	The current temperature is below the temperature range of the probe.
Sound & Temperature Unit & Timer			
	The device's buzzer is turned on.		The device's buzzer is turned off.
	Lights up when the timer is set; disappears when the timer is not set.	 Flashing	The timer is reached.
°C/°F	Temperature unit on the device		

● Infinity Mirror Ambient Light Reference Table

Factory default brightness: 30%		
Lighting Effects	Horizontal Marquee	Crossed Gradient
	Multicolor Change	Multicolor Wave
	Multicolor ON	Flowing Light
	Heartbeats	Horizontal Gradient
	Mono Breathing: Default white; color adjustable via App	Mono On: Default white; color adjustable via App



Infinity Mirror Ambient Light

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.	
		High Temperature Alarm	When the base detects that the temperature exceeds 55°C/131°F, the ambient light triggers a high-temperature alarm. The light will flash red until you manually clear the alarm or the temperature returns to the normal operating range. If the temperature remains too high 1 minute after the alarm is cleared, the alarm will be triggered again.	
	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.	
		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.

Status Reminder	Probe	Temperature Alarms	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.

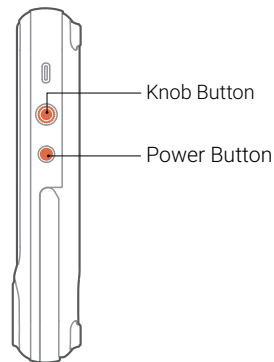
04 Key Definitions

● Power Button

- Press and hold for 3 seconds to power on or off the device.
- Press and hold for 30 seconds to reset the device.

● Knob Button

- Press the button once to switch between lighting effects. After cycling through 10 lighting effects, the light turns off. Press the button once again to turn the light back on.
- Rotate the knob to adjust the light brightness. Turn clockwise to increase brightness and counterclockwise to decrease brightness. (The factory default brightness is 30%.)
- Press and hold for 3 seconds to turn on or off the device sound.



● Cancel Alarms

- When the device is in an alarm state, press either the power button or the knob button to dismiss the alarm.

● Sleep & Awake

- When the device is in sleep mode but not powered off, a single press of the power button, or a rotation or press of the knob button, will wake the device.

05 Battery Details & Maintenance

● Battery Details

- A fully charged probe can continuously monitor food temperature and ambient temperature for up to 35 hours. (Continuous exposure to high temperatures may reduce the battery life.)
- The charging base features a built-in 4150 mAh high-capacity lithium battery. It can provide up to 41 hours of continuous use when connected via Bluetooth and up to 35 hours when connected via WiFi.

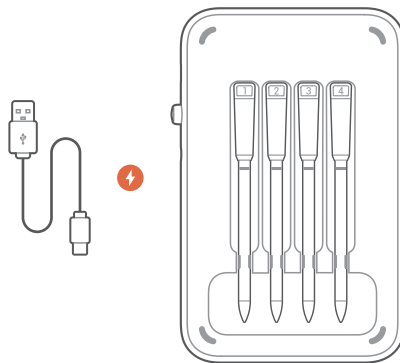
● Charging Steps & Methods

• Probe:

- (1) Place the probe that needs charging into the charging slot of the base to start charging.

• Base:

- (1) Use the charging cable included in the package to charge the device. It takes approximately 3 hours to fully charge.
- (2) During charging, the base's ambient light breathes green. Once fully charged, it remains solid green. (Lighting effects cannot be switched during charging.)
- (3) If you need to use another charging cable, please select a Type-C charging cable with a 5V 1-2A output.



● Use & Maintenance

- (1) Do not use the probe beyond its rated temperature range. Exposure to cooking temperatures above 300°C (572°F) or ambient temperatures below -10°C (14°F) may shorten battery life or cause battery damage.
- (2) When the probe battery is low, clean and dry the probe before placing it into the designated charging slot on the base. If the base battery is low, use the included charging cable to charge the base. The device's LCD screen and ambient light will indicate the charging status of the base and probes.
- (3) Please note that the probes are waterproof, but the base is not. Do not use or store the product in extreme weather conditions or high-humidity environments. Do not rinse the base under running water or place it in a dishwasher, sink, or other wet locations, as water ingress may damage the battery.
- (4) When the device is powered on but remains unused for an extended period, it will automatically enter sleep mode or power off to conserve battery. If the product will not be used for a long time, charge it to approximately 50% before storage. Do not store the device with a fully charged battery, as this may shorten battery life.
- (5) When the device battery is critically low, temperature readings may become inaccurate. The ambient light ring and alarm sound may also become unavailable, or the device may disconnect from the smartphone. Please charge the device promptly.
- (6) Do not use a Type-C charging cable that does not meet the 5V 1–2A specification to charge the device, as it may cause damage.
- (7) Do not disassemble or replace the built-in battery yourself, as this may damage the device or cause personal injury.
- (8) During use, make sure the base is not placed on or attached to hot stovetops, operating ovens, or grills. Do not place the base inside an oven or grill, as this may damage the product and may cause personal injury in severe cases.

06 APP Installation & Connection

● 6.1 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 below to download it directly.

NOTE:

- (1) Your iOS devices must be running iOS 13 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) This device supports both 5GHz and 2.4GHz WiFi routers.
- (4) Make sure that location permission is enabled for the app.

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.

● 6.2 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.

● 6.3 How to Connect

- Make sure Bluetooth and Wi-Fi are enabled on your smartphone.
- Open the INKBIRD app and allow it to access your location. Then, tap the "+" icon in the top-right corner to add a device and follow the in-app instructions to complete the connection.
- Keep the device as close as possible to your smartphone during the connection process, and make sure the probes remain within 19.68 ft (6 m) of the charging base.



Cleaning and Maintenance

- (1) Please note that the probes are waterproof, but the charging base is not. After use, the probes can be cleaned under running water or in a dishwasher. Do not use cleaning products containing alcohol, ammonia, benzene, or abrasives, as they may damage the device.

- (2) Do not place the probes directly into cold water for prolonged soaking to cool them down after cooking. Make sure the probes have cooled to room temperature before cleaning.
- (3) After cleaning the probes, wait until they are completely dry before placing them into the charging slots. This helps prevent the electrode contacts from rusting or water from entering the device and causing damage.
- (4) Please note that the charging base is not waterproof. Do not rinse or immerse it in water. If necessary, clean the charging base with a slightly damp cloth and prevent water from entering the device to avoid damage.
- (5) When storing the device, place the probes in the charging base and store the entire device in a cool, dry place away from children. Improper storage may result in property damage or personal injury.



Important Notes/Warnings

- (1) The probes and the base are pre-paired at the factory. After powering on the device, remove a probe, and the corresponding section will display the probe's measured temperature and  icon. Select the desired cooking menu in the app to begin cooking.
- (2) This product is not suitable for use in microwave ovens or pressure cookers. During use, make sure the probe is inserted into the center of the food, past the probe's safe cooking line, and away from bones.
- (3) The base acts as a Bluetooth signal repeater. During use, place the base close to the probe whenever possible. If this is not possible, do not place the base more than 6–8 m away from the probe, and make sure there are no metal objects or other obstacles between them. If obstacles are present, move the base closer to the probe to maintain a stable connection.
- (4) Do not exceed the probe's internal sensor limit of 212°F (100°C) or ambient sensor limit of 572°F (300°C). Exposure to temperatures above these limits may damage the probe.
- (5) Do not expose the probe directly to flames or burning charcoal. If the probe falls into a flame, immediately stop heating and allow it to cool completely before removal. Prolonged exposure to excessive heat may permanently damage the probe.
- (6) Keep the charging base away from open flames and heat sources during use. Do not expose it to direct sunlight, attach it to, or place it on hot oven or grill surfaces. Never place the charging base inside an oven or grill.
- (7) Do not touch the probe immediately after cooking, as it may be hot. Allow it to cool before handling. If necessary, use heat-resistant tools to prevent burns.
- (8) This product is a food thermometer designed specifically for grilling and cooking. We do not recommend using it for any other purposes.

Issues	Solutions
What if my device cannot connect to Bluetooth?	(1) Ensure that Bluetooth is enabled on your smartphone or tablet, the device has sufficient battery power, and the correct device model is selected. (2) Confirm that your smartphone or tablet is running iOS 13 / Android 7.1 or later. (3) Make sure that location services are enabled on your smartphone and that the app has permission to access your location. Without this permission, the app will not be able to connect to the device. (4) Ensure that the distance between the probe and the base is within 10 meters (32.8 ft). We recommend keeping the device away from metal objects or obstacles and placing your smartphone or tablet as close to the base as possible. (5) Try restarting the device, turning off other Bluetooth devices within range, or disabling their Bluetooth functions. (6) If you have previously paired this product with another smartphone, remove the device from that phone, then search for and pair it again.
What if my device cannot connect to WiFi?	(1) Ensure that Bluetooth and WiFi are enabled on your smartphone. First, connect the device to your smartphone via Bluetooth, then follow the instructions in the app to complete the WiFi connection. (2) Make sure that you have entered the correct WiFi account name and password, and that the WiFi connection is stable. (3) During the connection process, keep the product, router, and smartphone as close to each other as possible. (4) Do not place the device on a metal surface or near metal objects, and keep it at least 1 meter (3.3 ft) above the ground. (5) VPNs and network proxy servers should be disabled during the connection process, as they may cause connection failure. (6) Try restarting both the device and the router. If the device has been connected to WiFi before, you can reset WiFi through the device settings in the app.

What if my device cannot connect to WiFi?	(7) Press and hold the power button for 30 seconds to force reset the device. (8) Check your router settings, as the router may be blocking the device or adding it to a blacklist. Note: If the above steps do not resolve the issue, please contact our customer support team for further assistance.
What if my probe detects an incorrect temperature or no reading?	(1) You can use the app to calibrate the temperature to the value you believe is accurate. We recommend using the ice water calibration method (please refer to the ice water calibration card for details). (2) Check whether the current temperature has exceeded the probe's temperature range for an extended period or whether it has previously exceeded the limit and caused damage to the probe. (3) Check whether the probe is disconnected. If it is disconnected, wait for it to reconnect automatically, or restart the device and wait for the probe to reconnect. (4) Do not immerse the probe in water for an extended period. This product is designed specifically for food cooking and is not recommended for other uses. (5) If the probe is damaged and needs to be replaced, you can purchase a new one. In the app, select the probe that needs to be replaced, enter the settings page, delete the old probe, and pair the 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 whether the charging contacts on the probe or charging base are dirty or covered with grease, which may prevent the probe from charging properly. (4) Check whether the probe has ever been used beyond its specified temperature range. If necessary, please purchase a replacement probe. (5) Check whether the charging base has insufficient battery power and has entered battery protection mode, preventing it from charging the probe.

Why cannot charge the base?	(1) Use the included charging cable to charge the base. If you need to use another charging cable, please select a Type-C charging cable with a 5V1~2A power rating. (2) This device does not support fast charging. It can be fully charged with a standard charger within 3 hours. (3) Check whether the charging port has water ingress or moisture on the surface. If so, wipe it dry with a tissue or dry it with cool air. (4) The charging base is not waterproof. Do not rinse the base under running water or expose it to rain, as this may damage the product.
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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 nedoit 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 conformité ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et compliance d'acquérir les informations correspondantes. La distance minimale du corps à utiliser le dispositif est de 20cm.

WIRELESS BBQ THERMOMETER Model No. : INT-54-BW		
Wireless Probe		
FCC ID: 2AYZD-INT-33	IC: 30368-INT33	HVIN: INT-33
Charging Base		
FCC ID: 2AYZD-33-BW	IC: 30368-33BW	HVIN: INT-33-BW



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

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V1.0

MADE IN CHINA
DESIGNED BY INKBIRD