THERMOMETER

USER MANUAL

Works with iOS & Android

Models WTB4010, WTB4010-M
Updated: May 14, 2021

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ABOUT

The ZippyYum Thermometer is a super-awesome, one-of-a-kind, bluetooth, contactless, infrared thermometer.

It even supports an external probe.

The probe jack is compatible with standard K-type thermocouple connector probes.

An internal battery charged with a standard USB-C connector powers the thermometer.

All ZippyYum thermometers are compatible with both iOS and Android phones and tablets.

APPROVED USES

All models are food-grade, but only model WTB4010-M is rated for taking a person's forehead temperature scan.

SUPPORT

ZippyYum offers free support for our hardware and apps.

ONLINE RESOURCES

If you need help with your thermometer, please visit www.zippyyum.com for support resources including a knowledge base.

IN-APP RESOURCES

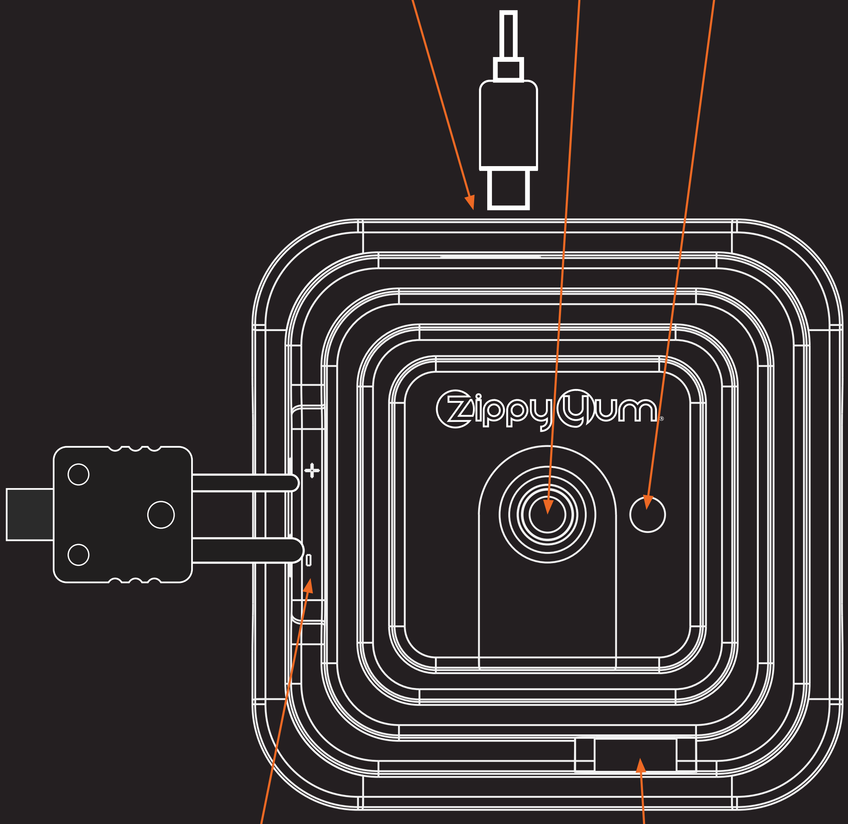
You can also access the knowledge base in the Help & Support area from the main menu of any ZippyYum app.

CONTACT US

To reach our support team, please use the Help & Support area from the main menu of any ZippyYum app.

You can also email us at support@zippyyum.com or live chat with us on our website.

FEATURES


Infrared sensor
USB-C
charging port
Laser indicator
ZippyYum
+
-
K-type
thermocouple
probe jack
LED indicator
& reset button

LASER SAFETY

The ZippyYum Thermometer contains a laser pointer compliant with FDA 21 CFR 1040.10, subchapter J. Please refer to the technical specifications for additional details.

⚠ WARNING!

Avoid directly exposing eyes to the thermometer's laser as this may result in eye damage.

Never point the laser at another person. When using model WTB4010-M to take a person's forehead temperature the app will automatically disable the laser.

Always keep thermometer out of the reach of children.

Avoid indirect eye exposure via reflective surfaces such as glass and mirrors.

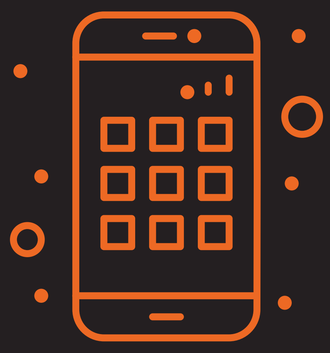
If thermometer is damaged, always perform an accuracy check prior to using thermometer for critical temperatures.

01.
SETUP

INSTALLING THE APP

Your ZippyYum Thermometer must be paired with the GoTemp app on an iOS or Android device before being used.

To install the app, tap below or visit: www.zippyyum.com/apps



TAP TO INSTALL

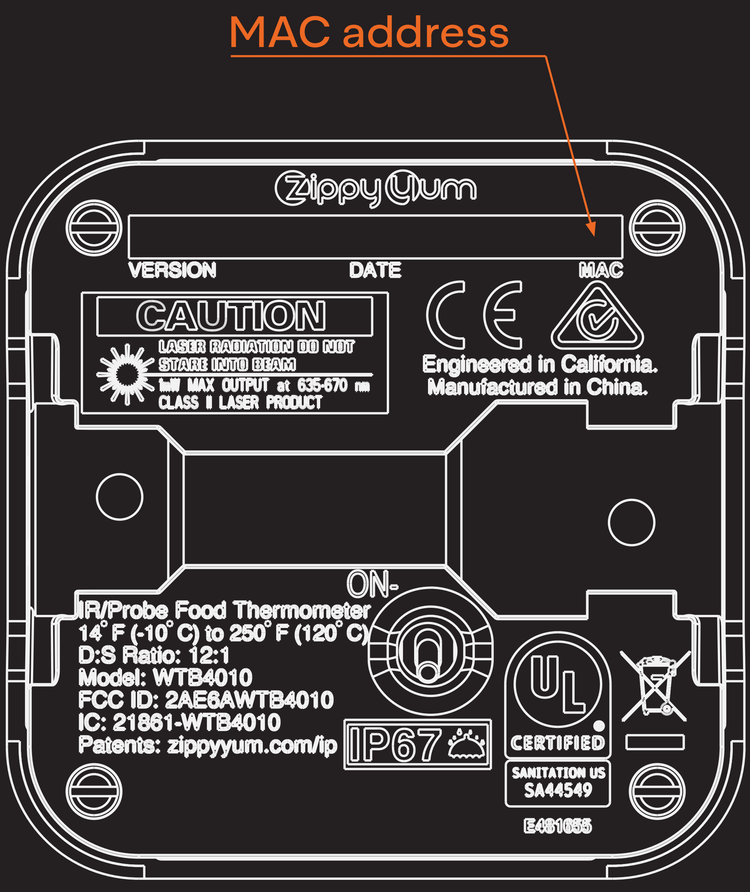
Once the GoTemp app is installed, log into the app using your login credentials.

Now you're ready to pair.

PAIRING

PRO TIP

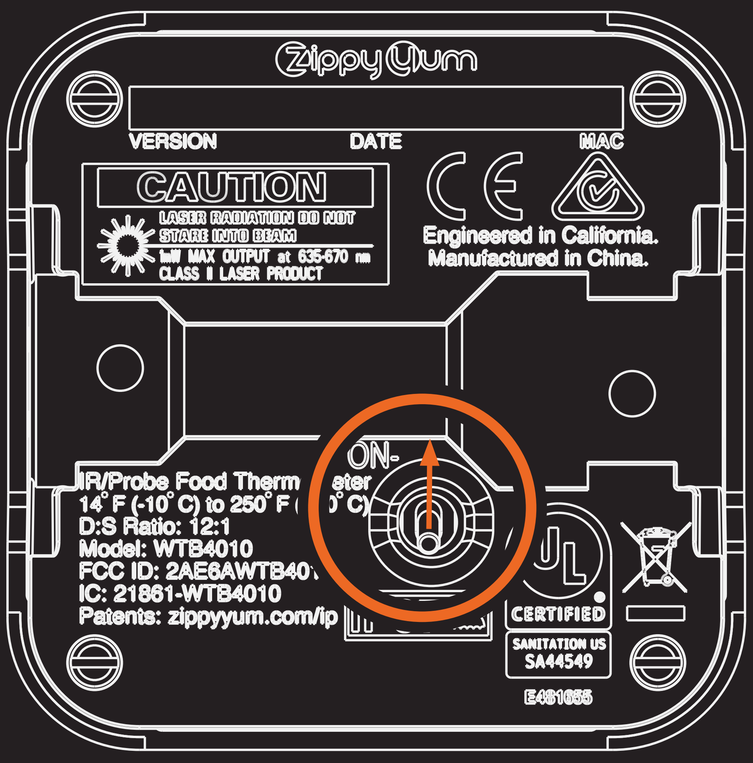
Your thermometer's unique identifier, also known as its MAC address, is printed on the back of the device as shown below. You may need it during pairing.



PAIRING

Your ZippyYum Thermometer arrives powered OFF.

Flip it on over and use a thin tool like a paper clip to flip the recessed switch to the ON position.



PRO TIP

The power switch is recessed for a reason! The thermometer is meant to be left in the ON position at all times. It will automatically go into power-saving mode when not in use.

PAIRING

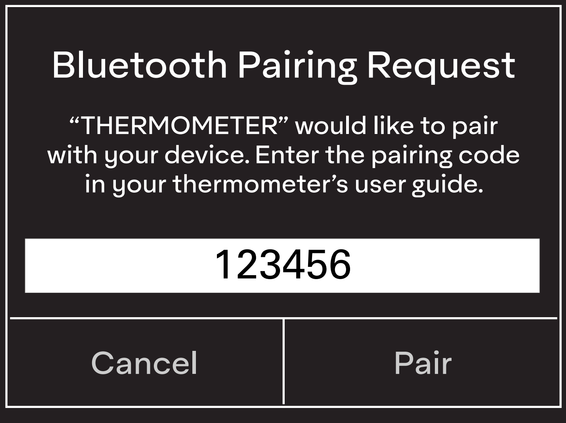
The GoTemp app will automatically connect to your thermometer if only one thermometer is detected.

If there are multiple thermometers, you'll see a list of options.

Available thermometers will show as "THERM_##" with ## being the last two digits of its MAC address.

The LED indicator will blink once a thermometer is selected.

The ZippyYum Thermometer will pair automatically or prompt you for a pairing code. If prompted, enter code '123456' in the app.

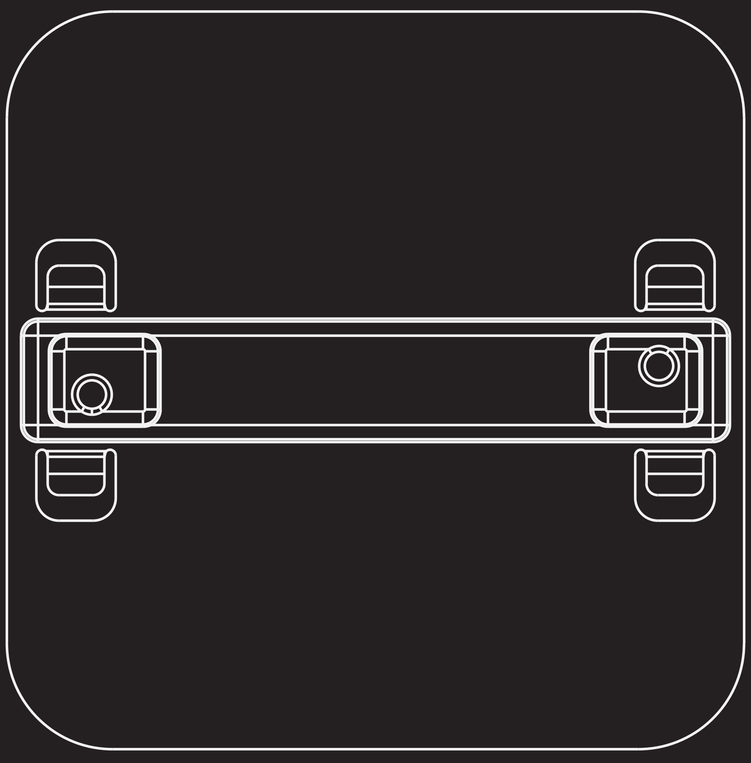


MOUNTING

The ZippyYum Thermometer attaches to any phone, case, or tablet with a flat back using a univeral mounting plate.

Simply clean the area thoroughly (we recommend isopropyl alcohol), peel the adhesive backing, and stick the plate on your device.

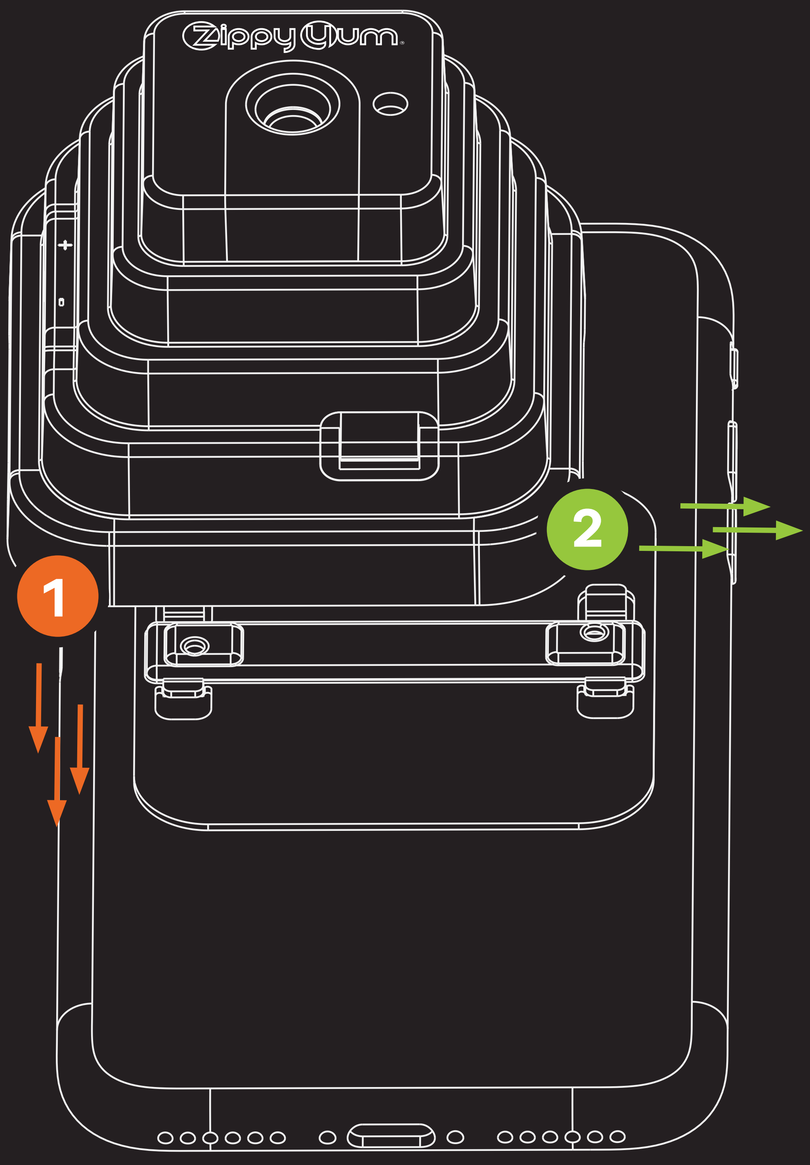
Make sure the raised bar on the mounting plate is horizontal.



MOUNTING

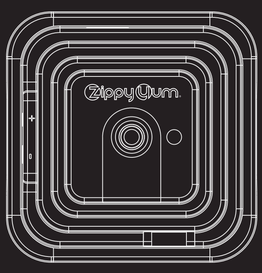
Next, align the raised tabs on the mounting plate with the notches in the back of your ZippyYum Thermometer.

Place the thermometer down onto the mounting plate and slide it to the side until it clicks.

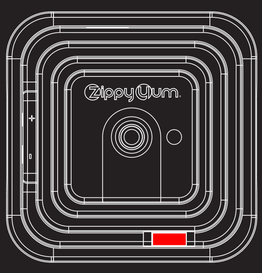


LED INDICATOR

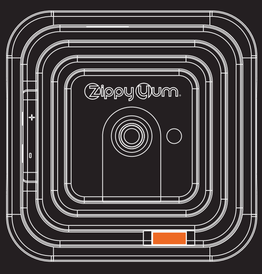
The ZippyYum Thermometer has an LED indicator to show battery information and pairing connectivity status to its device.



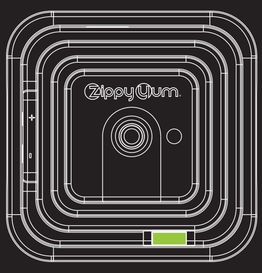
INDICATOR OFF
Power off, sleep mode, or dead battery



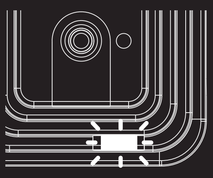
RED LED
Battery critically low, should be charged



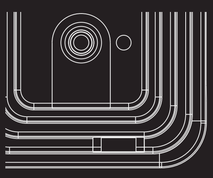
ORANGE LED
Battery charging, continue charging



GREEN LED
Battery charged, ready to use



IF FLASHING
Connected to device



IF SOLID OR LED OFF
Not connected to device

02.
TAKING TEMPS

SURFACE & INTERNAL TEMP

The infrared thermometer measures surface temperature. Make sure to mix items prior to taking an infrared temperature to get an accurate reading.

When internal temperatures are more critical for items like meat cooking on a grill, use the thermometer's probe jack to take an internal probe temperature.

Cold Holding Example: Use your free, gloved hand to mix or move the top layer of veggies in a food pan to get the internal temperature using infrared.

Hot Holding Example: Use a spoon to mix hot items like soups prior to taking their temperature using infrared.

Cooking Example: Use an external probe with the thermometer to check burger patties on a grill.

TROUBLESHOOTING

If your temperatures seem off, please follow these troubleshooting steps prior to contacting our support team.

Start by throroughly cleaning the thermometer following the steps outlined in this guide. A dirty infrared lens is the most common cause of inaccurate infrared temperatures.

If multiple items are temping out-of-range, verify your equipment is turned on and set to the proper temperature.

If taking infrared temperatures, verify proper steps are being taken to take internal temperatures by following the instructions on the previous page.

When contacting ZippyYum support be prepared to identify why you beleive your thermometer is not functioning (like using another thermometer to verify the temperature, etc.)

TROUBLESHOOTING

Make sure food is not covered, the ZippyYum thermometer can't measure through glass or plastic.

Steam, dust, smoke, and vapor can obstruct Scancase's sensors.

Avoid high humidity environments with condensation when using infrared.

Avoid measuring reflective surfaces (like aluminum wrapping) unless a matte surface is on top (like a label).

When a sudden change of temperature occurs (like walking into a freezer), your thermometer may need to be preconditioned for up to 15 minutes for accurate temperatures.

Avoid angling the thermometer for infrared temperatures. Keep it perpendicular to the measured surface for best results.

03.
SERVICE & CLEANING

ACCURACY CHECK

QUICK ACCURACY CHECK

To quickly check the infrared thermometer, fill a cup with ice and add enough cold water just to fill in the gaps between the ice.

Let the ice water sit for 2 minutes, then stir thoroughly.

Hold the thermometer about 6” to 8” directly above the ice and take an infrared temperature.

Make sure the thermometer is pointed straight down and not angled, otherwise you may be taking the cup’s temperature instead of the ice water.

The thermometer should read about 32.0°F or 0°C. If the temperature is more than 4°F or 2°C out-of-range, please contact ZippyYum support.

ACCURACY CHECK

REMINDER!

The only way to check the accuracy of an IR thermometer is to verify it against a known temperature. Using a probe-based thermometer will produce different results and should not be used to check the thermometer's IR accuracy.

COMPLETE ACCURACY CHECK

For a more detailed accuracy check procedure for both hot and cold temperatures, please visit the ZippyYum knowledge base.

You can access the knowledge base in the Help & Support area from the main menu of any ZippyYum app.

If you need further assistance with performing an accuracy check please contact our team by emailing support@zippyyum.com or live chat with us on our website.

CLEANING

The ZippyYum Thermometer's sensors should always be kept free of dirt, dust, moisture, smoke, and debris.

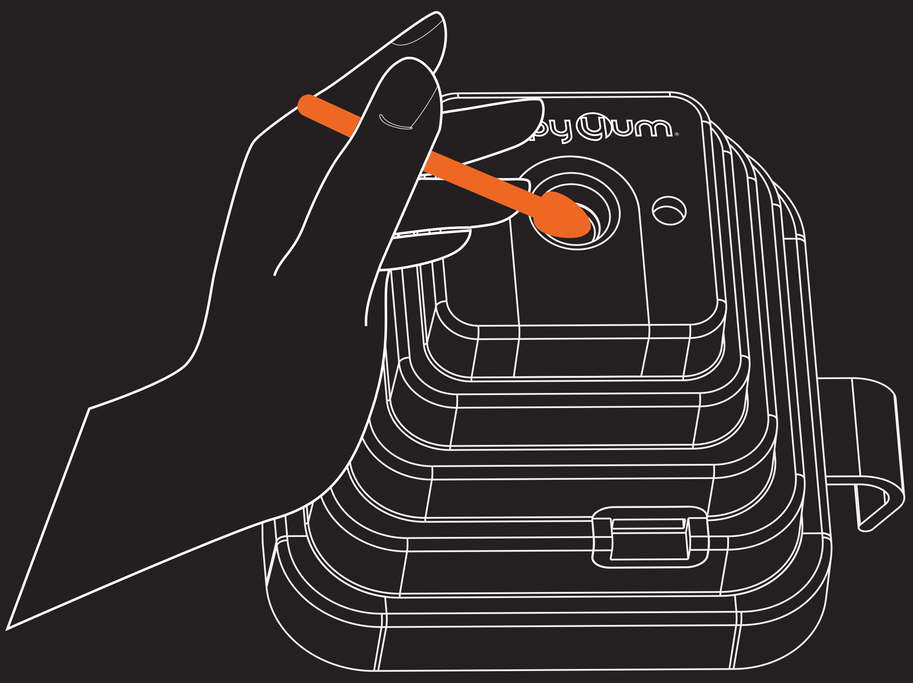
⚠ WARNING!
Do not submerge the thermometer or wash in a dishwasher.

To clean the body of the thermometer, moisten a cloth with a water-based mild detergent and wipe the device.

CLEANING

A dirty infrared lens is the most common cause of inaccurate infrared temperatures.

To clean the infrared lens, lightly moisten a cotton swab with water and insert and swirl it in the lens opening to clean any debris. Repeat with a clean cotton swab until it comes out clean. Finish with a dry cotton swab to dry the lens.

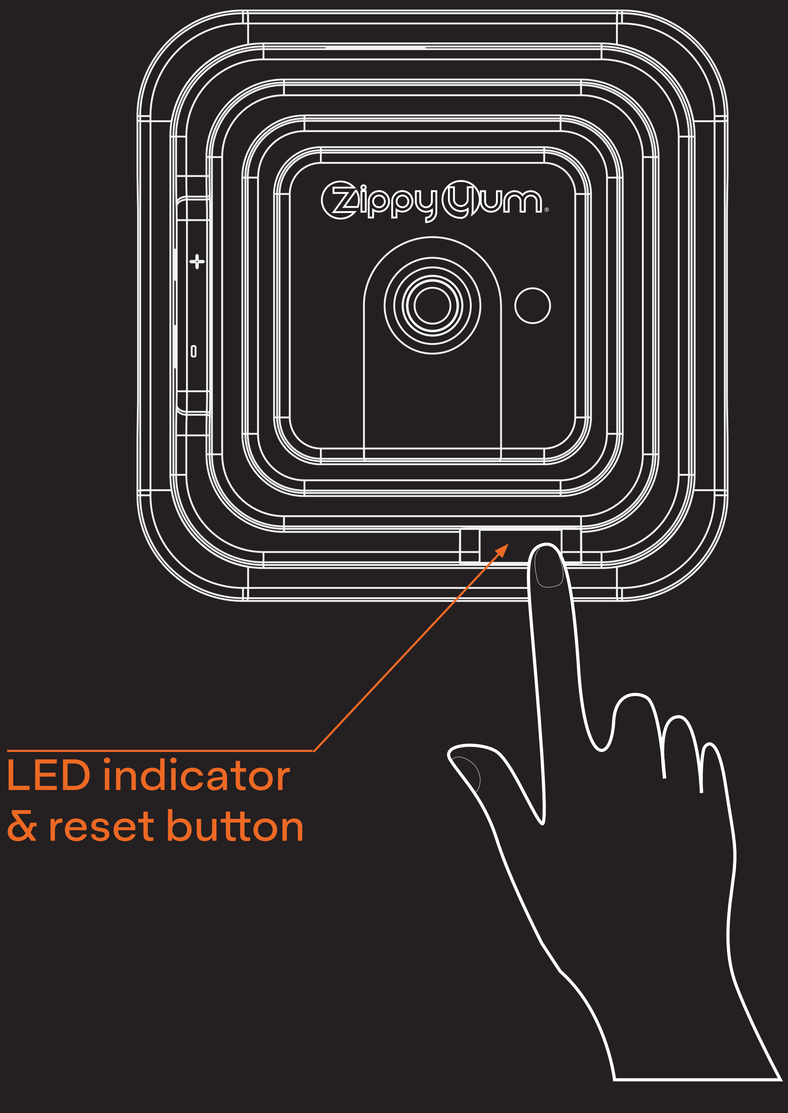


RESET PROCEDURE

To reset the thermometer, simply use your finger to press the reset button located on the bottom area of the front of the thermometer.

The LED indicator is also the reset button.

The thermometer will blink orange 5 times to confirm the reset.



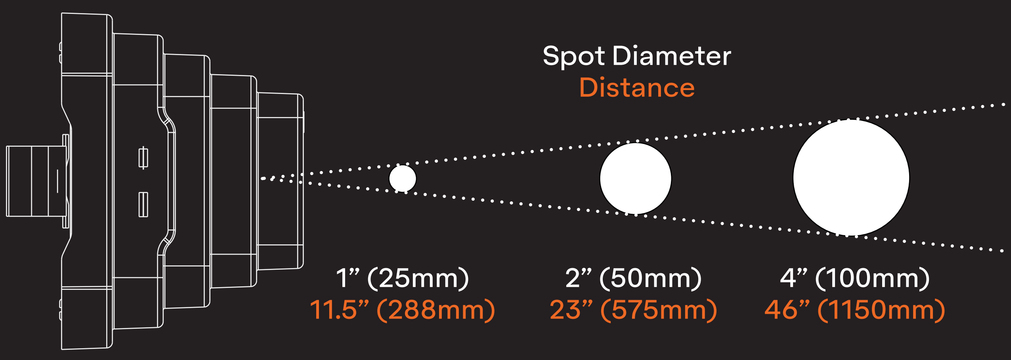
DISTANCE TO SPOT

The field of view (distance-to-spot) is the area of where temperature is being measured via infrared.

The distance you hold the thermometer away from the product determines the dimensions of this area.

The further away from the product, the larger the area being measured. The laser helps indicate where the thermometer is measuring.

Hold the thermometer about 6” away from the item you want to measure for accurate temperatures.



04. TECHNICAL SPECS

TECHNICAL SPECS

OPERATING CONDITIONS	Storage Temp	14°F to 113°F -10°C to 45°C
	Operating Temp	50°F to 104°F 10°C to 40°C
	Humidity	10% to 90%
	Charging Current	≤100mA
	Charging Voltage	5V
	Bluetooth Power	0 dBM
BATTERY	Capacity	400 mAH
	Voltage	3.7V
	Standby Time	360 hours
	Measuring Time	16 hours
LASER	Peak Wavelength	650 nm
	Optical Power	<1 mW
OTHER	Electromagnetic Interference	Protected
	Electrostatic Discharge	Protected

TECHNICAL SPECS

THERMOMETER

Temperature Unit	°F and °C
IR Measurement Range	-94°F to 716°F -70°C to 380°C
Probe Measurement Range	-454°F to 2500°F -270°C to 1372°C

Actual probe measurement may be limited by the range of the probe. Please refer to your probe's documentation prior to use. Never use a probe to measure items outside the listed temperature range.

Repeatability	Within accuracy
Response Time	1 second
Probe Resolution	0.25°F or 0.25°C
Probe Accuracy at Room Temp (77°F or 25°C)IR	±2°F or ±1°C when object is 14°F to 392°F
Resolution	0.1°F or 0.1°C

TECHNICAL SPECS

THERMOMETER

IR Accuracy at Room Temp (77°F or 25°C)	±2°F or ±1°C when object is 32°F to 140°F
	±4°F or ±2°C when object is <32°F or >140°F
IR Emissivity	0.95 (preset, but adjustable)
IR Measurement Distance	1” to 12” 2.5 cm to 30cm
Distance-to-Spot	12:1

IP RATING

The ZippyYum thermometer is rated IP67 (maximum depth of 1 meter up to 30 minutes) under IEC standard 60529.

This rating is for the thermometer only.

Please refer to the owner's manual for your iOS or Android device for its waterproof rating.

Complete protection is not guaranteed under all conditions.

Read this guide for proper use of Scancase. Malfunctions due to improper handling by the user are not covered under warranty.

05. WARRANTY & LEGAL

WARRANTY

ZippyYum warrants the ZippyYum Thermometer, at the time of its sale by ZippyYum, is free of defects in material, workmanship, and component failures under normal and proper use for a period of one (1) year from date of delivery.

This warranty applies worldwide.

ZippyYum's only obligation is to correct such defects by repair or replacement, at its option, if within the warranty period and the product is returned prepaid by the customer.

There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose.

ZippyYum is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to or loss of use of, any equipment, lost sales or profits, or delay...

WARRANTY

... or failure to perform this warranty obligation.

ZippyYum's liability on any claim for damages arising in connection with the manufacture, sale, installation, delivery, or use of the ZippyYum Thermometer shall never exceed the purchase price of the product.

The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort, or otherwise.

In line with ZippyYum's policy of continuous development, ZippyYum reserves the right to alter any specifications without notice.

CERTIFICATIONS

The ZippyYum thermometer conforms to the following standards:

UL LISTED FOR UL2333
Infrared Thermometers - E1481655

UL EPH CLASSIFIED FOR ANSI/NSF 2
Food Service Equipment - SA44549

FCC CFR47 PART 15 SECTION 15.247:2014
FCC ID: GU6WTB4010

INDUSTRY CANADA RSS-247
IC ID: 1502AWTB4010

EUROPEAN UNION DIRECTIVES
1999/5/EC Radio & Telecommunications Terminal Equipment (R&TTE) Directive

2014/35/EU - Low Voltage (LVD) Directive

2014/30/EU - Electromagnetic Compatibility (EMC) Directive

2011/65/EU - EU Restriction of Hazardous Substances (RoHS) Directive

2012/19/EU - Waste Electrical and Electronic Equipment (WEEE) Directive

ACME (AUSTRALIA) STANDARDS
AS/NZS 4268:2012+ A1:2013
EN 61000-6-1:2007
EN 61000-6-3:2007 +A1:2011
EN 61000-3-2:2014
EN 61000-3-3:2013

CERTIFIED

RoHS

Industrie Canada

Industry Canada

FCC COMPLIANCE

This device complies with Part 15 of the FCC rules and Industry Canada 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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

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

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

The device has been evaluated to meet general RF exposure requirements.

IC WARNING

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

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

The device has been evaluated to meet general RF exposure requirements.

L'appareil a été évalué pour répondre aux exigences générales d'exposition aux RF.