| SPECIFICATIONS | | Operat |
|---|---|--|
| Ambient Operating Temperature 14 to 122°F / -10 to 50°C | | The CZ-IR is |
| Display Resolution 0.1° between -19.9 to 199.9°, | ThermoWorks | press the SC |
| Otherwise 1° Temperature Scale °F / °C switchable Response Time 1 second Accuracy (Tamb=23 ±3°C)* ±1.1°F / 0.6°C from 59 to 95°F / 15 to 35°C ±1.8°F / 1.0°C from 32 to 149°F / 0 to 65°C; ±1.5% over the rest of the range. Distance/Target Ratio Emissivity Adjustable from 0.05 to 1.00 in .01 steps Battery Type Battery Life Approximately 40 hours Auto Shubf | CERTIFICATE OF CONFORMANCE The manufacturer of this instrument has implemented a quality assurance system under ISO 9001:2000 certified quality system and fully follow ISO GUM (Guide to the Expression of Uncertainty in Measurement) to evaluate the uncertainty of temperature and resistance standards, guarantee performance as below: Calibration Max Target Target Torget temperature Torget temperature -30°C ± 40°C 0.3°C | Information is A. Temp B. Batter C. MINIM D. MAXI E. LOCK F. Select °C OR °F M To change th |
| Wavelength 5-14µm Dimensions 1.5 (W) x 4.5 (H) x 0.9 (D) inches 39 (W) x 115 (H) x 22 (D) mm Weight 1 4 az (40 4 a including battery | 10°C $\pm 1.5^{\circ}$ C $\pm 0.4^{\circ}$ C 0.1° C 200°C $\pm 3.0^{\circ}$ C $\pm 0.5^{\circ}$ C 0.1° C Note: Assume the operation ambient temperature under 23 $\pm 3^{\circ}$ C | then press th will flash. Pro new units. |
| Certificate Includes Certificate of Conformance **Racuracy can be affected by the emissivity setting, target got size, raid changes in ambeint temperature, and environmental conditions. | Furthermore, we certify that this infrared thermometer has been inspected and found to comply with published specifications. This device has been calibrated by temperature and/or resistance standards that are traceable to NIST (U.S. National Institute of Standards and Technology) or NML (Makional Measurement Laboratory) of Taivan, and the calibration procedure corresponds with generally accepted regulations and standards. | MINIMUM To utilize the first turn the then press th maximum fur press the SC |
| 08-01-18 C2-IR @ThermoWorks. Inc. All rights reserved. | ThermoWorks, Inc. Uah, U.S.A. www.thermoworks.com | mode. Keep t will display th |
| 5 | 6 | |

ting Instructions

a non-contact infrared thermometer. Simply aim the thermometer at the target and AN button to display the surface temperature. The distance to target ratio is 1:1, thermometer should be positioned as close to the target as possible for best results. s displayed on the LCD through the following symbols:

1

- erature reading
- rv status
- AUM mode
- MUM mode mode
- ted temperature scale (°C or °F)

MODE

e thermometer from °C to °F or from °F to °C. instrument on by pressing the SCAN button, e MODE button four times. The °C or °F symbol ess the SCAN button to change and confirm the

OR MAXIMUM MODE

thermometer's minimum or maximum mode, instrument on by pressing the SCAN button. e MODE button once for minimum or twice for nction. The MIN or MAX icon will flash, then AN button to confirm the minimum or maximum the SCAN button depressed and the thermometer he minimum or maximum reading only.



LOCK MODE

The LOCK mode locks the thermometer in SCAN mode, and is particularly useful for continuous monitoring of temperatures. To utilize the thermometer's LOCK mode, first turn the instrument on by pressing the SCAN button, then press the MODE button three times for the LOCK mode function. The LOCK icon will flash. Then press the SCAN button to confirm the LOCK measurement mode. The thermometer will continuously display the temperature for up to 60 minutes or until the SCAN button is pressed.

EMISSIVITY

The infrared thermometer is supplied with a default emissivity of 0.95. The emissivity of the thermometer can be changed from 0.05 (5E) to 1.00 (100E). Changes should only be carried out by experienced personnel. To change the emissivity, first turn the instrument on by pressing the SCAN button, then press the MODE button five times for emissivity function. The LCD display will flash 95E. Then press the SCAN button to adjust the emissivity value to the desired setting. Press the MODE button again to exit the set up screen. For information regarding emissivity and the emissivity of specific materials, please visit our website at www.thermoworks.com.

Note: non-contact infrared thermometers are not recommended for measuring the temperature of shiny or polished metals.

LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:



Er3 is displayed when the ambient temperature exceeds 14°F / -10°C or 122°F / 50°C. The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the ambient room temperature.

For all other error messages is it neccessary to reset the thermometer. To reset, Fr turn the thermometer off, remove the battery and wait for a minimum of one minute. Reinsert the battery and turn it on. If the error message remains please contact ThermoWorks for further assistance.

Hi or Lo is displayed when the temperature being measured exceeds the Hı Lo measurement range of the thermometer.

BATTERY

The thermometer incorporates visual low battery indication as follows:





measurements may be affected

BATTERY REPLACEMENT

Power off the unit before replacing the battery.

- 1. Open the battery compartment on the back of the thermometer.
- 2. Remove the old battery by pushing it away from the plastic clips and toward the metal hook and lifting it up.
- 3. Insert a new battery under the metal hook and press down until you hear a click sound 5. Close the battery cover.

A malfunction may occur if the power is on when the battery is replaced. If a malfunction occurs, restart the device, Keep the battery away from children.

LANYARD

The lanyard can be attached to the bottom of the thermometer. Feed the looped string through the hole. Feed the remaining material throught the loop in the string for a secure hold.

STORAGE & CLEANING

The thermometer should be stored at 40 to 149 °F / 4 to 65 °C.

The sensor lens is the most delicate part of the thermometer and should be kept clean at all times. Care should be taken when cleaning the lens to use only a soft cloth or cotton swab with water or medical alcohol, and allow the lens to fully dry before using the thermometer. Do not submerge any part of the thermometer.

EMC/RFI

Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

GUARANTEE

The thermometer is guaranteed for a period of one year from the date of purchase against mechanical and electrical manufacturing defects. There are no user serviceable parts inside the instrument. Any attempted repair by unauthorized persons voids the warranty.

Avoid keeping the thermometer too close to objects that continuously generate high heat for long periods (like a hot plate), which can cause overheating of the lens. 4

Battery Cover X 0 Lanvard