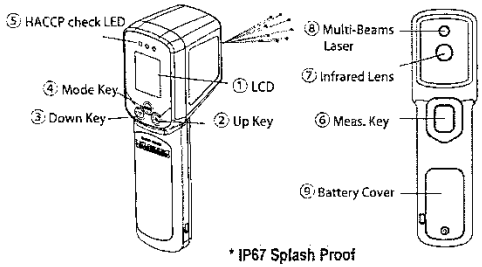
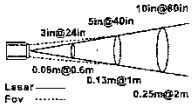
IR41X Thermometer Operating Instructions

The thermometer is a non-contact infrared thermometer. There are many mathematical modes for the infrared function. Please remember to keep away from children and don't use it for safety related applications.

(Default Screen)



* IP67 Splash Proof

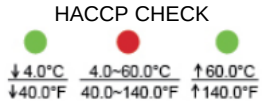


*** Multi-Beams Laser specify the approximate measurement area for better targeting.**

Simply aim the thermometer at the measure target with lens (⑦) and press meas. Key (⑥) to display the surface temperature. The Distance :Spot is 8:1. Please make sure the target area is within the field of view.

HACCP CHECK

The "HACCP CHECK" feature is incorporated in our thermometer temperature to indicate the critical temperature zone. The LED light indicates a food product stays safe or unsafe HACCP temperature zone. The green and red LED lights will always be on before power off.

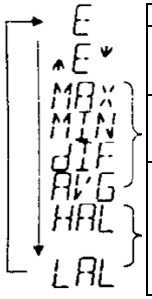


A Green LED light indicates that the temperature is at the HACCP "Safe Zone".
A Red LED light with a beep sound indicates that the temperature is at the HACCP "Danger Zone"

The HACCP range is adjustable. The default setting of Safe Zone is below 4˚C (40˚F) or above 60˚C (140˚F), and Danger zone is between or equal to 4˚C (40˚F) and 60˚C (140˚F).

FUNCTION

Press Mode Key (④) for scrolling more display function as follows.



Here will show the emissivity data. (The default emissivity is 0.95.)
Press Mode Key (④), then press Up Key (②) or Down key (③) to **set the emissivity**, then press Mode Key (④) to confirm it. The emissivity can be changed from 0.10 (10E) to 1 (100E).
Press Mode Key (④) for the Maximum (MAX), Minimum (MIN), Different between MAX and MIN (DIF) and Average (AVG) modes. During the measurement, the special modes reading will be displayed beside the mode icon.
Press Up key (②) or Down Key (③) to change the **High HACCP Alert Point (HAL) or Low HACCP Alert Point (LAL)**, then press Meas. Key (⑥) to confirm it. **When the reading is between or equal to HAL and LAL, the red LED light will be ON and you will hear a beep sound. Whereas, the right green LED light will be ON when the reading is greater than HAL and the left green LED light will be ON when the reading is less than LAL**. The default HAL is 60.0˚C (140˚F) and LAL is 4.0˚C (40.0˚F).

** The thermometer will automatically shut off if left idle for more than 60 seconds.

ADD VALUE

In E, MAX, MIN, DIF, AVG mode:	Press Up Key (②) for **LOCK mode** ON/OFF. The lock mode is particularly useful for continuous monitoring of temperatures for up to 60 minutes.
	Press Down Key (③) for **˚C** or **˚F transferred.**
In all modes: First hold on the Meas. Key (⑥)	And press Up Key (②) for **green backlight** ON/OFF.
	And press Down Key (③) for **laser function** ON/OFF.

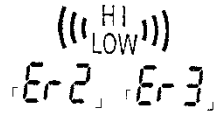
CAUTION

1. WHEN DEVICE IS IN USE, DO NOT LOOK DIRECTLY INTO THE LASER BEAM-PERMANENT EYE DAMAGE MAY RESULT.
2. USE EXTREM CAUTION WHEN OPERATING THE LASER.
3. NEVER POINT THE DEVICE TOWARDS ANYONE'S EYES.
4. KEEP OUT OF REACH OF ALL CHILDREN.

STORAGE & CLEANING The thermometer should be stored at room temperature between -20 to +65˚C (-4~149˚F). The sensor lens is the most delicate part of the thermometer. The lens should be kept clean at all times, care should be taken when cleaning the lens using only a soft cloth or cotton swab with water or medical alcohol. Allowing the kens to fully dry before using the thermometer. Do not submerge any part of the thermometer.

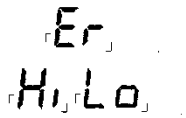
LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:



'Hi' or 'Lo' is displayed when the temperature being measured is outside of the settings of HAL and LAL.

'Er2' is displayed when the thermometer is exposed to rapid changes in the ambient temperature. 'Er3' is displayed when the ambient temperature exceeds the range of 0˚C(32˚F)~50˚C(122˚F). the thermometer should be allowed plenty of time 9minimum 30 minutes) to stabilize to the working/room temperature.



Error 5-9, for all other error messages it is necessary to reset the thermometer. To reset it, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on. If the error message remains please contact Scigiene for further assistance.

'Hi' or 'Lo' is displayed when the temperature being measured is outside of the measurement range.

BATTERIES

The thermometer incorporates visual low battery indication as follows:


'Battery OK': measurements are possible


'Battery Low': battery needs to be replaced; measurements are still possible


'Battery Exhausted': measurements are not possible

BATTERY REPLACEMENT

1. Loose the screw and pull out the battery cover (⑨).
2. Replace and reinstall with new batteries.
3. Place the battery cover (⑨) back and fasten with screw.

⚠ When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with AAA, 1.5V batteries. Please note: It is important to turn the instrument off before replacing the battery otherwise the thermometer may malfunction.

⚠Dispose of used battery promptly and keep away from children.

⚠If the device is not to be used for a long time, turn the power off, remove and store the batteries in a cool, dry place.

SPECIFICATION

Item	Non-contact Infrared Scan function
Measurement Range	-30~250˚C (-22~482˚F)
Operating Range	0~50˚C (32~122˚F)
Accuracy (Tobj=15~35˚C, Tamb=25˚C)	± 0.6˚C
Accuracy (Tamb=23±3˚C)	-30~0˚C: ±(1˚C+0.1/degree) 0~65: ±1˚C 65~250: ±1.5% reading
Emissivity Range	0.95 default – adjustable 0.1 to 1 step .01
Resolution (-9.9~199.9˚C/˚F)	0.1˚C/0.1˚F, otherwise 1˚C/1˚F
Response Time (90%)	1sec
Distance: Spot	8:1 (90% energy covered)
Battery Life	Typ. 100, min 90 hours continuous use (Alkaline, without Laser and Back Light.)
Dimensions	166.87 x 55.93 x 46 mm (6.57 x 2.2 x 1.81inch)
Weight	165 grams (5.82oz) including batteries (AAA*2pcs)

⚠ 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.

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