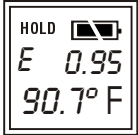




# LIT11TC DUO THERM

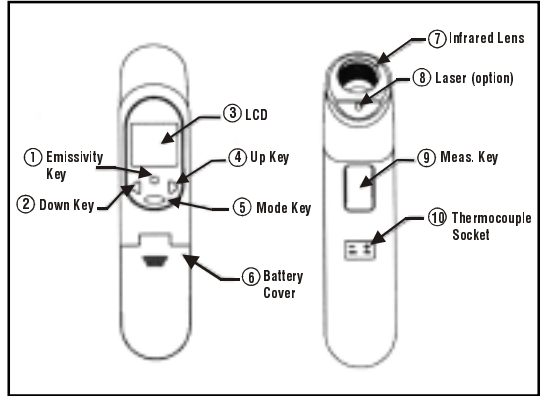
## Thermometer Operating Instructions

The LIT11TC is a non-contact infrared thermometer with additional K-type thermocouple. 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)

Simply aim the thermometer at the measure target with Lens (7) and press Meas. key (9) to display the surface temperature. The distance: Spot is 11:1. Please make sure the target area is within the field of view.



### Function

Press Emissivity key (1) for setting the emissivity.



Press Emissivity key (1), then press Up key (4) or Down key (2) to **set the emissivity**, then press Mode key (5) to confirm it. The emissivity can be changed from 0.10 (10E) to 1 (100E).

Press Mode key (5) for scrolling more display function as follows.



Here will show the emissivity data. (The default emissivity is 0.95.)

Press Mode key (5) 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 (4) or Down key (2) to change the **High Alarm (HAL) or Low Alarm (LAL)**. then press Meas. key (9) to confirm it. For example: When reading 80.6°F <LAL 80.9°F the low icon will flash and you will hear a beep sound.

Connect the thermocouple with thermocouple socket (10) and put the probe in/on the target, the thermometer will display the temperature automatically without pressing any button. To see the minimum or maximum data during the probe measurement, please hold down the Up key (4) or Down key (2).

⚠ After measuring high temp, the probe may remain HOT for awhile.

\*\* The thermometer will automatically shut off if left idle for more than 60 sec, unless in PRB mode. (In PRB mode it will shut off if left idle for more than 12 minutes.)

### ADD VALUE

<b>In MAX, MIN, DIF AVG mode:</b>	Press Up key (4) for <b>LOCK mode ON/OFF</b> . The lock mode is particularly useful for continuous monitoring of temperatures for up to 60 minutes.
	Press Down key (2) for <b>°C or °F transferred</b> .
<b>In all modes : First hold on the Meas. key (9)</b>	and Press Up key (4) for <b>backlight function ON/OFF</b>
	and press Down key (2) for <b>laser fuction ON/OFF</b> .

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## ⚠ CAUTION

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

## STORAGE & CLEANING

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 lens to fully dry before using the thermometer. Do not submerge any part of the thermometer. The thermometer should be stored at room temperature between -4 to +150°F.

## 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.

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 the Service Department for further assistance.

## BATTERIES

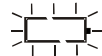
The thermometer incorporates visual low battery indication as follows:



'BATTERY OK': measurements are possible



'BATTERY LOW': battery needs to be replaced, measurements are still possible



'BATTERY EXHAUSTED': measurements are not possible

- ⚠ 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.

## Specifications

	Non-Contact Infrared Scan Function	Thermocouple Probe Scan Function K-Type
Measurement Range	-76°F to 932°F (-60°C to 500°C)	-83.2° to 1999°F (-64°C to 1400°C)
Operating Range	32°F to 122°F (0°C to 50°C)	Included Probe: 58°F to 482°F (14°C to 250°C)
Accuracy (Tob=59°F-95°F Tamb=77°F)	+/-2.0°F	+/-1% of reading or 2°F (whichever is greater)
Full Range Accuracy (-14.8°F to 391.8°F)	+/-2% of reading or 4°F (whichever is greater)	
Resolution (-99-199.9°C)	0.1°F/0.1°C	
Response Time (90%)	1 sec	
TPI Wave Length	8µm - 14µm	
Distance: Spot	11:1	
Battery Life	Typ.180 hours of continuous use (alkaline, without laser and back light)	
Dimensions	6.9" X 1.5" X 2.8" (175.2 X 39.0 X 71.9mm)	
Weight	6.3 oz (179 grams) including batteries (AAA X 2 pcs)	

## ⚠ EMC/RFI

Readings may be affected if the unit is operated within ratio 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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