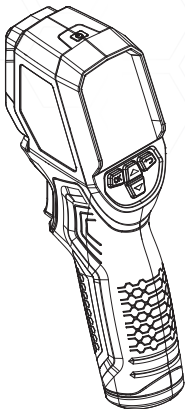


# KOBALT®



ITEM #4882348

## THERMAL IMAGING CAMERA

MODEL #STIS250

**Español p. 9**

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### ATTACH YOUR RECEIPT HERE

Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 888-3KOBALT (888-356-2258), 8 a.m - 8 p.m., EST, Monday - Sunday. You could also contact us at [partsplus@lowes.com](mailto:partsplus@lowes.com).

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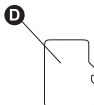
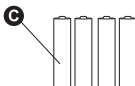
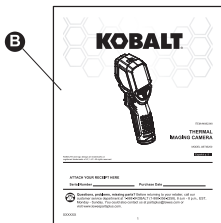
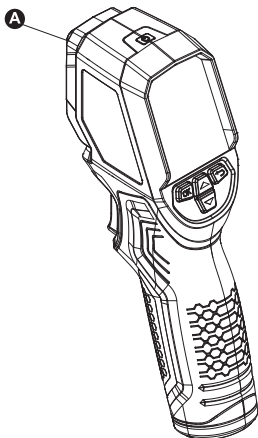
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## PRODUCT SPECIFICATIONS

SPECIFICATIONS	
Display	1.8" 128x160 TFT
Thermal resolution	32x32
Image capture frequency	9Hz
NETD (thermal sensitivity)	<150mK
Detector type	Infrared Thermopile Array Sensor
Camera resolution	640x480
Temperature range	14°F - 1022°F (-10°C - 550°C)
Temperature accuracy(*)(**)	±2% or ±4°F (2°C) whichever is greater
Operating temperature	32°F - 122°F (0°C - 50°C)
Operating humidity	10% - 75%RH
Storage temperature	-4°F - 140°F (-20°C - 60°C)
Storage humidity	≤80% RH
Emissivity range	0.1 - 1.0 (Preset to 0.95)
Power	4*AAA (Batteries )
(*) Ambient 60% RH and Temperature of 77°F(25°C)	
(**) Measuring distance of 5.9 inch	

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.

## PACKAGE CONTENTS



PART	DESCRIPTION	QUANTITY
A	Infrared thermometer camera	1
B	Instruction manual	1
C	AAA battery	4
D	4GB micro SD card (inserted)	1

## SAFETY INSTRUCTIONS

Please read thoroughly and comply with the Safety Instructions and User Manual before using this product. Failure to read and follow may void the warranty.

- Do not use for medical purposes.
- Keep out of reach of children.
- Do not open the housing other than battery compartment.
- Do not expose the tool to explosive gas or vapor or to rain or wet conditions.
- Stay alert, watch what you are doing and use common sense when operating the tool. Do not use while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention may result in serious personal injury.
- Use the tool in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the tool for operations different from those intended could

result in a hazardous situation.

- Do not use the tool if it operates incorrectly or abnormally or if it is damaged.
- BEFORE EACH USE, inspect the general condition of the tool. Check for:
  - loose hardware,
  - misalignment or binding of parts,
  - cracked or broken parts,
  - damaged electrical wiring,
  - any other condition that may affect its safe operation.



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:

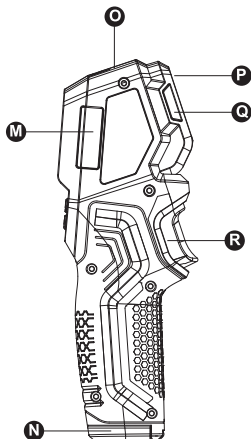
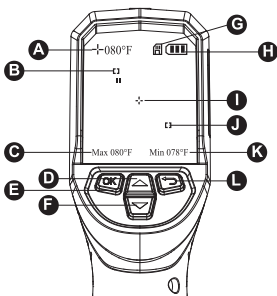
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **BATTERY SAFETY**

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- Keep batteries away from children and pets.
- Please pay attention to the positive and negative battery marks and install accordingly. Unit will not function if incorrect polarity exists.
- Please use large-capacity alkaline batteries for best performance.
- Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries. Replace all batteries at the same time with new batteries of the same brand and type.
- If storing for extended time, remove batteries before storage to prevent possible damage.

## PRODUCT OVERVIEW



PART	DESCRIPTION
A	Center point temperature
B	Minimum temperature marker(red)
C	Maximum temperature
D	Up
E	Select
F	Down
G	Memory card installed indicator
H	Battery status
I	Center point marker
J	Maximum temperature marker(green)
K	Minimum temperature
L	Go back

PART	DESCRIPTION
M	USB/memory card slot
N	Battery compartment
O	Power on/off button
P	Infrared lens
Q	Camera lens
R	Camera trigger

## GENERAL OPERATION

- Install batteries according to Battery Replacement on page 7.
- Open USB/Memory Card slot and insert micro SD card if needed.
- Press and hold Power Button until display is on.
- Press Up and Down buttons to increase or decrease thermal image color saturation.
- Press OK to enter Settings.
- To turn off the camera, press and hold Power Button until display is off.

Note: Camera does not automatically shut off.

See Settings-Auto Power off: on page 7 to change setting.

## Take Measurement

- Turn camera on.
- Hold camera approximately 12" from target.
- View temperature values.
- Press Trigger to capture image.
- View image according to Settings-SD card-Photos: on page 6.
- Use included USB cable to view/transfer photos via another device.

## Settings

When entered settings mode, use Up and Down buttons to select setting. Press OK to enter setting. Press Go Back to return to previous screen.

### SD Card

Photos:

- Press OK to view list of photos.
- Use Up and Down buttons to view photos. Press OK to select photo.
- Once photo is selected, use Up and Down buttons to navigate through photos.

Format Photos:

- Press OK to format memory card.
- Note: Once OK is pressed, there is no option to cancel.



Memory Card

### Color

- Press OK to select on of three thermal color palettes.
- Press Go Back to set palette.



Color Palettes

### Emissivity

Emissivity is the amount of thermal energy emitted from a surface.

Generally, painted, dull or dark surfaces have higher emissivity. Metals and reflective surfaces have lower emissivity.



Emissivity

#### APPROXIMATE SURFACE EMISSIVITY

Glass	0.95
Concrete	0.95
Hot food	0.93
Carbon	0.85
Cast iron	0.80
Copper (oxidized)	0.50
Galvanized pipe	0.40
Aluminum (oxidized)	0.30
Stainless steel (polished)	0.20

- Press OK to change setting.
- Use Up and Down buttons to select one of four preset values, press OK to set value.
- Select last row to set specific value. Press OK, then use up and down buttons to select value, then press go back twice to set value.

## Temperature Unit

- Press OK to select °F or °C.
- Press go back to set temperature unit.



Temperature Unit

## Time and Date

Time:

- Press OK to set time.
- Use Up and Down buttons to set hour, then press OK.
- Use Up and Down buttons to set minute, then press OK.
- Use Up and Down buttons to set AM/PM, then press OK.
- Press Go Back to set time.

Date:

- Press Down button to select Date, then press OK.
- Use Up and Down buttons to set month, then press OK.
- Use Up and Down buttons to set day, then press OK.
- Use Up and Down buttons to set year, then press OK.
- Press Go Back to set date.



Date

Time Format:

- Press Down button to select time format, then press OK to select format.
- Press Go Back to set time format.

## Power Off

- Press OK to change setting (default is OFF).
- Use Up and Down buttons to make selection, then press OK.
- Press Go Back to set selection.

## Battery Replacement

To avoid incorrect measurements, replace the batteries when the status is low.

- Turn camera off.
- Loosen screw on Battery Cover.
- Remove Battery Cover.
- Remove batteries and replace with same.
- Replace Battery Cover, secure with screw.



Auto Shutoff

## MAINTENANCE

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### WARNING

- To prevent serious injury from accidental operation:  
Release the trigger and remove the batteries from the laser thermometer before performing any inspection, maintenance, or cleaning procedures.
- To prevent serious injury from tool failure: Do not use damaged equipment.  
If damage is noted, have the problem corrected before further use.

- Use clean compressed air to blow off loose particles. Use a clean soft brush to remove any debris away. If necessary clean with a clean damp cotton cloth.

Note:

- Do not use solvent to clean lens.
- Do not submerge the unit in water.

## **WARRANTY**

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For 1 year from the date of purchase, the product is warranted for the original purchaser to be free from defects in material and workmanship. This guarantee does not cover damage due to abuse, normal wear, improper maintenance, neglect, unauthorized repair/alteration, or expendable parts and accessories expected to become unusable after a reasonable period of use.

If you think your product meets the above guarantee criteria, please return it to the place of purchase with valid proof of purchase and the defective product will be repaired or replaced at no charge. This guarantee gives you specific legal rights, and you may also have other rights that vary from state to state.