



Series
TIC

Thermal Imaging Camera

160 x 120 Resolution, Visual Light/Thermal Blended View



The **Series TIC Thermal Imaging Camera** allows users to see heat contrasts to prevent plant equipment failures, detect air leaks in buildings, and many more applications. Infrared radiation is given off by objects according to how warm they are, and the camera translates the measured levels into visual light on the bright 2.5" 160 x 120 resolution LCD. For increased differentiation among temperatures, the camera can automatically adjust the color band for a narrower range of temperatures throughout the -4 to 482°F (-20 to 250°C) temperature range of the camera. Besides taking spot measurements, the camera can also be set for isothermal, area, or profile analysis. All cameras include a Li-Ion battery, battery charger, docking station, SD memory card, SD memory card reader, sun shield, lens cap, video cable, standard reporting software, and a calibration report. A Bluetooth® earphone and USB cable are also included in TIC-30 units for making voice annotations and real time recording.

Up to 9 movable temperature spots can be selected to get specific temperature measurements of objects on the display. On the TIC-20 and TIC-30, there are flash, visual light camera, and a laser pointer to help identify the objects in the picture better. The visual image can be blended with the thermal image for better illustration of where the hot or cold spots are in the image.

Model	Analysis Tools						Visual Camera
	# of Spots	Auto Hot/Cold Spot	ΔT	Isotherm	Area	Profile	
TIC-10	1	Yes	Yes	No	No	No	No
TIC-20	4	Yes	Yes	Yes	No	No	Yes
TIC-30	9	Yes	Yes	Yes	Yes	Yes	Yes

SPECIFICATIONS

Range: -4 to 482°F (-20 to 250°C).
Accuracy: ±2° C or ±2% of reading (whichever is greater).
Detector Type: Focal Plane Array (FPA), uncooled microbolometer.
IR Resolution: 160 x 120.
Visual Light Resolution: 640 x 480 full color (TIC-20/TIC-30).
Display: 2.5" TFT LCD.
Spectral Range: 8 – 14 μm.
Field of View: 20° x 15° (minimum 0.1 m).
I.F.O.V.: 2.2 MRAD.
Thermal Sensitivity: 0.1°C @ 30°C.

Temperature Limits: Ambient: 5 to 122°F (-15 to 50°C); Storage: -40 to 158°F (-40 to 70°C).

Humidity Limits: 95% @ 77 to 104 F (non-condensing).

Power Requirements: 7.2 V SON. FA-70 lithium ion battery, included, user replaceable or AC adapter.

Laser Pointer: 1 mW / 635 nm red (TIC-20 / TIC-30 only).

Memory: Up to 16 GB SD Card.

Shock/Vibration Rating: 25 G/2 G.

Housing Rating: IP54.

Weight: 500 g.

Agency Approval: CE.

ACCESSORIES

A-TIC-CC, Hard carrying case
A-TIC-AC, AC power adapter
A-TIC-PC, Car charger
A-TIC-BA, Replacement battery for Series TIC
A-TIC-BC, Replacement battery charger

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