



# TEMPEST™ TIC 4.1



**High Resolution Thermal imaging camera**

## Efficient and small = 1 button + 4" display

Particularly suitable for the first attack. TEMPEST TIC 4.1 offers unbeatable value and best quality, ideal for firefighting, first attack, search for missing persons and fire...



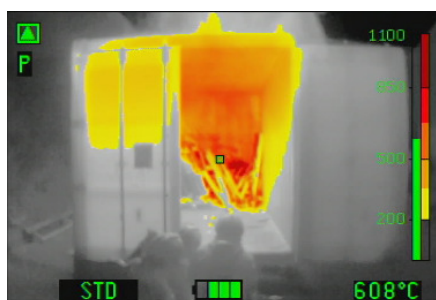
### Outstanding features:

- **Compact** 6.9 x 5.7 x 3.8"
- **Lightweight** 2.09lbs with 2 batteries and side straps.
- **Large 4" display** for detailed visibility
- **Widest detection range:** -40 °F to +2100 °F
- **1 colorization mode**
- **Picture Capture and / or Video recording** (option)
- **Batteries:** 6 year warranty, 5000 charging cycles
- **Safe batteries (LiFePO4):** for high temp operations
- **Up to 8h running time** (2 batteries) with **Eco-Boost-System** (up to 60% additional running time than previous model)
- **Germanium window to protect the optics**
- **Removable Pistol grip** option
- **Boot time: less than 5 sec**
- **1 Large button:** easy to operate even with gloves
- **Functions:**
  - ON/OFF
  - Image freeze & picture capture (option)
  - Continuous video recording (option)



### Color schemes:

TEMPEST TIC 4.1 offers one color scheme: **Fire** (standard) or optional **Search** (instead of Freeze)



**FIRE (STD):**  
 Dark Red >1560 °F  
 Red > 1250 °F  
 Orange > 930 °F  
 Dark Yellow >660 °F  
 Yellow > 400 °F  
 White = Hot  
 Black = cold



**SEARCH (option):**  
 2 hottest % coloured in Red and the 5 following hottest % in Yellow-Orange.

### 3 Sensitivity modes with automatic switch according observed scene:

- High sensitivity temperature range: -40 +300 °F
- Medium sensitivity temperature range: -40 + 950 °F
- Low sensitivity temperature range: -40 +2100 °F



# Characteristics:

## Tempest TIC 4.1 with Eco-Boost-System

<b>Dimensions</b>	L6.9 x W5.7 x H3.8" (H = +4.3" with optional pistol grip)
<b>Weight</b>	2.09lbs with 2 batt / 1.91lbs with 1 batt (+0.37lbs with optional pistol grip)
<b>Display</b>	4" LCD / 320 x 240 (76.800) px / Backlighting / Brightness: 74.32 cd/ft²
<b>Frequency</b>	60Hz Fps
<b>T°C Range</b>	-40° to +2100°F
<b>Colorization</b>	Std: Fire, And / Or Search
<b>Housing</b>	
<b>Material</b>	PUR / Elastomer
<b>Drop Test</b>	6.5 ft on concrete
<b>IP</b>	IP67 / 3.2 ft 30 minutes
<b>Heat resistance</b>	300°F for 15min / 500°F for 5min
<b>Sensor</b>	
<b>Micro bolometer type</b>	Uncooled 17μ Amorphous Silicon aSi Resolution <b>384 x 288</b> (110 592 px)
<b>Spectral range</b>	7 – 14 μm
<b>Thermal sensitivity</b>	NETD: <50mK (<0.05°C)
<b>Optics</b>	
<b>Material</b>	Germanium Carbon Coated Protected by a germanium window
<b>Focus</b>	1.15ft to infinity / F/1.3 speed
<b>Visual field / FOV</b>	H: 51° / V: 40° / Diagonal: 65°

General	
<b>Rechargeable batteries</b>	LiFePO <sub>4</sub> (Lithium Iron Phosphate = safety VS fire), 2.5Ah at 6.6V, 0.19lbs
<b>Running time</b> (68°F) with Eco-Boost-System since October 2018	<b>Without video/photo functions:</b> >8h (2 batt) / >4h (1 batt) <b>With video/photo functions:</b> >6h (2 batt) with non-active video >5h (2 batt) with recording video
<b>Boot time</b>	< 5 seconds
<b>Charging voltage</b>	12 / 24 VDC or 100-240 VAC
<b>Charging time</b> (for 2 batt / consider half for 1 batt)	Charging bay: ~1h30 Mains charger: 100% in ~2h, 90% in ~1h30, 80% in ~1h20
<b>Charging cycles</b>	> 5000
<b>Memory (optional)</b>	8GB internal SD card (8h video or 1000 pics)
<b>Warranty</b>	<b>5 years</b> on camera / <b>6 years</b> on batteries / <b>10 years</b> on thermal sensor / <b>1 year</b> on accessories (chargers, charging bay, etc...)
Options	
Removable pistol grip	Picture capture and/or video recording (8GB capacity)
Neck strap in flame retardant material	Vehicle charging bay or mains charger
1 or 2 Retractable lanyards	Carrying case IP67
Protection hood	Wireless video transmission to computer, tablet or smartphone
Analogue output (NTSC or PAL)	



### Energy concept

LiFePO<sub>4</sub> batteries (lithium-iron-phosphate).

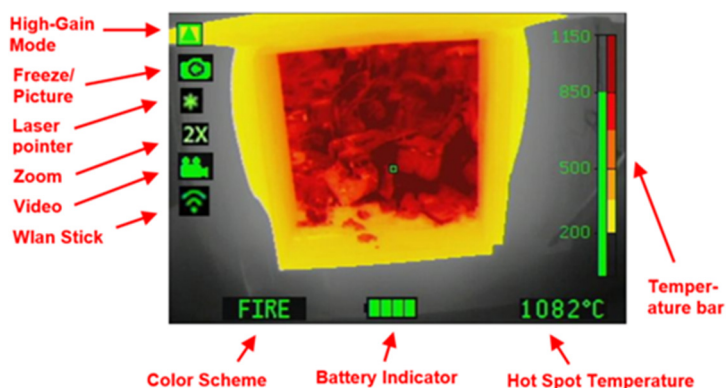
#### Benefits:

- Very long lifespan guaranteed 5000 charging cycles (~10 years)
- Operating time (up to 8h with 2 batteries at the same time in the camera)

### Picture capture & Video recording

- Pictures (up to 1000) and Video (up to 8h) can be:
- viewed on the camera screen during operation
  - Live Pictures can be sent to a computer, tablet or smartphone thanks to optional wireless stick.
  - Downloaded into a computer via a USB cable

Wlan module



### Vehicle Charging Bay

Very space-saving mountable!  
Power supply 12/24 VDC or 100-240 VAC. Can charge up to 4 batteries at the same time (2 in the camera and 2 spares)








## Camera standard features:

Designation	Color modes		Features					
	Color modes	Max color modes	Battery	Freeze mode	Side trap	Video recording	Picture capture	USB cable
TEMPEST TIC 4.1 (1CS)	Fire (std.)		1 or 2	√	2			
TEMPEST TIC 4.1 (2CS)	Fire (std.) + Search		1 or 2		2			
TEMPEST TIC 4.1 P	Fire (std.)		2	√	2		√	√
TEMPEST TIC 4.1 V	Fire (std.)		2	√	2	√	√	√

P = Picture

V= Video + Picture

## Camera optional accessories:

	Wireless Transmission kit	Only compatible with cameras equipped with Video recording		Vehicle charging bay with additional slots	Charge batteries in the camera + 2 extra spare batteries
	Pack of 2 spare batteries			Power supply for charging bay	Exist in 12/24V and 100V-240V with US or EU plug
	Cable charger for TIC 3 & 4	Available in 12/24V or 100V- 240V		Retractable lanyard	1.1lbs or 2.2lbs tension force
	Watertight Carrying case	IP67		Neck strap	Fire-proof (Kevlar)
	Vehicle charging bay	Charge batteries inside the camera		Protection hood	Increases time exposure x2 to high temperatures
				Removable pistol grip	Pistol grip = 0.37lbs Incl. mounting tool



As part of our policy of constantly researching to improve our equipment, we reserve the right to change the characteristics of our apparatus at any time without prior notice.  
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**TEMPEST™**