



# TEMPEST™ TIC 3.1



High Resolution Thermal imaging camera

## Efficient and small = 1 button + 3.5" display

Particularly suitable for the first attack. TEMPEST TIC 3.1 offers unbeatable value and best quality, ideal for firefighting, first attack, search for missing persons and fire...



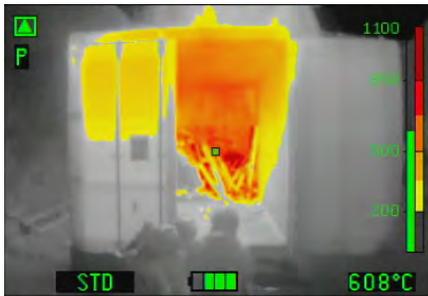
### Outstanding features:

- **Compact** 6.5 x 5.5 x 3.4"
- **Lightweight** 1.92 lbs with 2 batteries and side straps.
- **Large 3,5"** display for details 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 cycle
- **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)

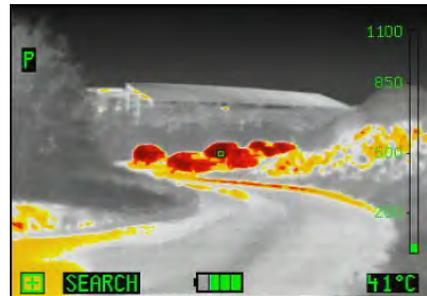


### Color schemes:

TEMPEST TIC 3.1 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 % colored 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 3.1 with Eco-Boost-System	
Dimensions	L.6.5 x W.5.5 x H.3.4" (H= +4.33" with optional pistol grip)
Weight	1.92lbs with 2 batt / 1.73lbs with 1 batt (+0.37lbs with optional pistol grip)
Display	3,5" LCD / 320 x 240 (76 800) px / Backlighting / Brightness: 74.32 cd/ft²
Frequency	60Hz Fps
T°C Range	-40° to +2100°F
Colorization	Std: Fire, Or option: Search
Housing	
Material	PUR / Elastomer
Drop Test	6.5 ft on concrete
IP	IP67 / 3.2ft - 30 Minutes
Heat resistance	300°F for 15min / 500°F for 5min
Sensor	
Micro bolometer type	Uncooled 17µ Amorphous Silicon aSi Resolution <b>384 x 288</b> (110 592 px)
Spectral range	7 – 14 µm
T°C sensitivity	NETD: <50mK (<0.05°C)
Optics	
Material	Germanium Carbon Coated Protected by a germanium window
Focus	1.15ft to infinity / F/1.3 speed
Visual field / FOV	H: 51° / V: 40° / Diagonal: 65°

General	
Rechargeable batteries	LiFePO <sub>4</sub> (Lithium Iron Phosphate = safety VS fire), 2.5Ah at 6.6V, 0.19lbs
Running time (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
Boot time	< 5 seconds
Charging voltage	12 / 24 VDC or 100-240 VAC
Charging time (for 2 batt / half for 1 batt)	Charging bay: ~1h30 Mains charger: 100% in ~2h, 90% in ~1h30, 80% in ~1h20
Charging cycles	> 5000
Memory (optional)	8GB internal SD card (8h video or 1000 pics)
Warranty	<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 3.1 (1CS)	Fire (std.)		1 or 2	√	2			
TEMPEST TIC 3.1 (2CS)	Fire (std.) + Search		1 or 2		2			
TEMPEST TIC 3.1 P	Fire (std.)		2	√	2		√	√
TEMPEST TIC 3.1 V	Fire (std.)		2	√	2	√	√	√

P = Picture  
V= Video + Picture

# Camera optional accessories:

	<b>Wireless Transmission kit</b>	Only compatible with cameras equipped with Video recording		<b>Vehicle charging bay with additional slots</b>	Charge batteries in the camera + 2 extra spare batteries
	<b>Pack of 2 spare batteries</b>			<b>Power supply for charging bay</b>	Exist in 12/24V , 110V or 240V with US or EU plug
	<b>Cable charger</b>	Available in 12/24V , 110V or 240V		<b>Retractable lanyard</b>	1.1lbs or 2.2lbs tension force
	<b>Watertight Carrying case</b>	IP67		<b>Neck strap</b>	Fire-proof (Kevlar)
	<b>Vehicle charging bay</b>	Charge batteries inside the camera		<b>Protection hood</b>	Increases exposure time x2 to high temperatures
				<b>Removable pistol grip</b>	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.  
ZF.07.303.US.5

**TEMPEST**  
Fighting for performance