



# LEADER TIC 4.1

High Resolution Thermal imaging camera

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

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



### Outstanding features:

- **Compact** 175 x 145 x 97 mm
- Lightweight **950gr** with 2 batteries and side straps
- **Large 4" display** for detailed visibility
- **Widest detection range:** -40°C to +1150°C
- **1 colorization mode**
- **Picture Capture and / or Video recording** (option)
- **Batteries:** 6 year warranty, 5000 charging cycles
- **Safe batteries (LiFePO4):** for high temp operations
- **With ECO BOOST System** for extended running time
- **Up to 8h running time** with 2 batteries
- **Germanium window to protect the optics**
- **Removable Pistol grip** option
- **Boot time < 5 sec**
- **1 Large button:** easy to operate even with gloves
- **Functions:**
  - ON/OFF
  - Image freeze & picture capture (option)
  - Continuous video recording (option)



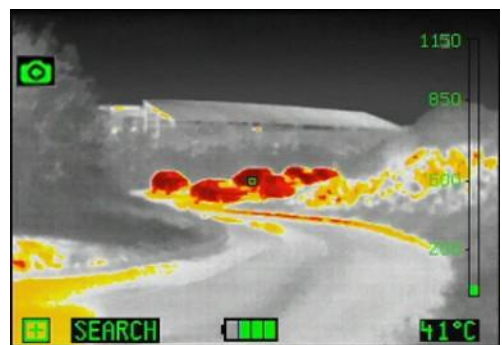
### Colour schemes:

LEADER TIC 4.1 offers one or 2 colour schemes: **Fire** (standard) or **Search** (instead of Freeze)



#### FIRE (STD):

- Dark Red >850°C
- Red > 675°C
- Orange > 500°C
- Dark Yellow >350°C
- Yellow > 200°C
- White = Hot
- Black = cold



#### SEARCH:

2 hottest % colored in Red and the 5 following hottest % in Orange.

#### 3 automatic sensitivity adjustments:

- High sensitivity temperature range: -40 to +150°C
- Medium sensitivity temperature range: -40 to + 500°C
- Low sensitivity temperature range: -40 to +1150°C



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.07.326.EN.4



# Characteristics:

Leader TIC 4.1	
<b>Dimensions</b>	L.175 x W.145 x H.97 mm (H = +110mm with optional pistol grip)
<b>Weight</b>	950g with 2 batt / 865g with 1 batt (+170g with optional pistol grip)
<b>Display</b>	4" LCD / 320 x 240 (76.800) px / Backlighted / Brightness: 800 cd/m <sup>2</sup>
<b>Frequency</b>	60Hz Fps
<b>T°C Range</b>	-40° to +1150°C
<b>Colorization</b>	Std: Fire And / Or Search
Housing	
<b>Material</b>	PUR / Elastomer
<b>Drop Test</b>	2m on concrete
<b>IP</b>	IP67 / 1 Meter 30 Minutes
<b>Heat resistance</b>	150°C for 15min / 260°C for 5min
Sensor	
<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)
Optics	
<b>Material</b>	Germanium Carbon Coated Protected by a germanium window
<b>Focus</b>	0,35m to infinity / F/1.3 speed
<b>Visual field / FOV</b>	H: 51° / V: 40° / Diagonal: 65°

General	
<b>Power supply</b>	LiFePO <sub>4</sub> recharg. batteries (85g)
<b>Running time (20°C)</b> with Eco-Boost-System since October 2018	>8h (2 batt) / >4h (1 batt) >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 (for 2 batt / consider half for 1 batt)</b>	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)

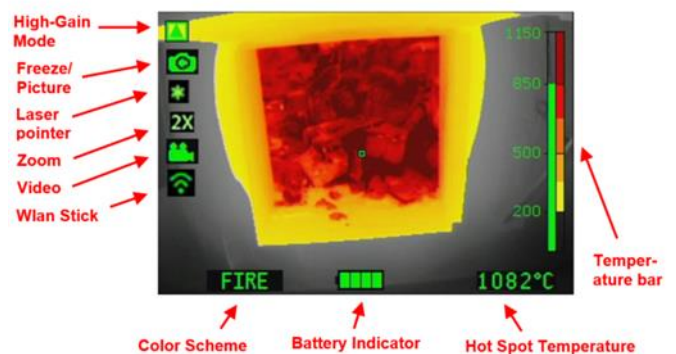
### Benefits:


- 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





### 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)



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## Camera standard features:

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

P = Picture

V = Video + Picture

## Camera optional accessories:

	<b>Wireless Transmission kit</b>	<b>Only compatible with cameras equipped with Video recording</b>		<b>Vehicle charging bay with additional slots</b>	<b>Charge batteries in the camera + 2 extra spare batteries</b>
	<b>Pack of 2 spare batteries</b>			<b>Power supply for charging bay</b>	<b>Exists in 12/24V and 100V-240V with US or EU plug</b>
	<b>Cable charger for TIC 3 &amp; 4</b>	<b>Available in 12/24V or 100V- 240V</b>		<b>Retractable lanyard</b>	<b>500g or 1000g tension force</b>
	<b>Watertight Carrying case</b>	<b>IP67</b>		<b>Neck strap</b>	<b>Fire-proof (Kevlar)</b>
	<b>Vehicle charging bay</b>	<b>Charge batteries inside the camera</b>		<b>Protection hood</b>	<b>Increases time exposure x2 to high temperatures</b>
				<b>Removable pistol grip</b>	<b>Incl. mounting tool</b>



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