



# LEADER TIC 4.1X NFPA

High Resolution Thermal imaging camera



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

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



### Outstanding features:

- **Compact** 180 x 153 x 105 mm
- **Lightweight 1000gr** with 2 batteries and side straps.
- **Large 4" display** for detailed visibility
- **Widest detection range: -40°C to +1150°C**
- **1 colorization mode**
- **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 integrated Eco-Boost-System
- **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
  - Continuous video recording (option)



NFPA 1801:2018



### Color schemes:

LEADER TIC 4.1X offers one color scheme: **Fire** (standard).



**FIRE (STD):**  
 Dark Red >850°C  
 Red > 675°C  
 Orange > 500°C  
 Dark Yellow >350°C  
 Yellow > 200°C  
 White = Hot  
 Black = cold

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

- High sensitivity temperature range: -40 +150°C
- Medium sensitivity temperature range: -40 + 500°C
- Low sensitivity temperature range: -40 +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.xxx.EN.1



# Characteristics:

Leader TIC 4.1X with Eco-Boost-System	
Dimensions (approx)	L.180 x W.153 x H.105 mm (H = +110mm with optional pistol grip)
Weight	1000g with 2 batt / 915g with 1 batt (+170g with optional pistol grip)
Display	4" LCD / 320 x 240 (76.800) px / Backlighting / Brightness: 800 cd/m <sup>2</sup>
Frequency	60Hz Fps
T°C Range	-40° to +1150°C
Colorization	Std: Fire
Housing	
Material	PUR / Elastomer housing with silicone boot around display
Drop Test	2m on concrete
IP	IP67 / 1 Meter 30 Minutes
Heat resistance	150°C for 15min / 260°C 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
Thermal sensitivity	NETD: <50mK (<0.05°C)
Optics	
Material	Germanium Carbon Coated Protected by a germanium window
Focus	0,35m 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, 85g
Running time (20°C) 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 / consider 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)
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...)
Certifications	NFPA 1801:2018 (under process) and CE
Options	
Removable pistol grip	Automatic video recording (8GB capacity) at start ON
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



## Energy concept

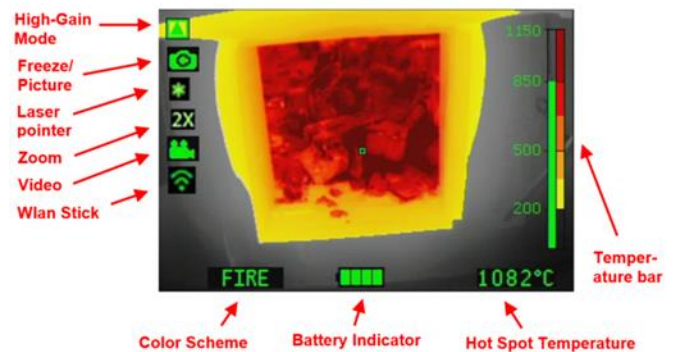
LiFePO<sub>4</sub> batteries (lithium-iron-phosphate).

### 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	Color modes		Features					
	Color modes	Max color modes	Battery	Freeze mode	Side trap	Video recording	Picture capture	USB cable
LEADER TIC 4.1X (1CS)	Fire (std.)		2		No, but available attachment points for zippers and/or neck strap			
LEADER TIC 4.1X (V)	Fire (std.)		2			Automatic recording at start ON		√

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 and 100V-240V with US or EU plug
	<b>Cable charger</b>	Available in 12/24V or 100V- 240V		<b>Retractable lanyard</b>	500gr or 1000gr 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 time exposure x2 to high temperatures
				<b>Removable pistol grip</b>	Pistol grip = 170g Incl. mounting tool



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