

LEADER TIC 3.1



High Resolution Thermal imaging camera

Efficient and small = 1 button + 3.5" display

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



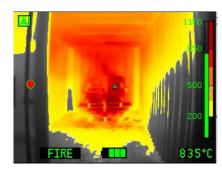
Outstanding features:

- Compact 165 x 140 x 85 mm
- Lightweight 910g with 2 batteries and side straps.
- Large 3,5" display for details 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 cycle
- Safe batteries (LiFePO4): for high temp operations
- Up to 8h running time (2 batteries) with 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
- Also available in 9hz = non dual use good
- Functions:
 - o ON/OFF
 - o Image freeze & picture capture (option)
 - Continuous video recording (option)



Colour schemes:

LEADER TIC 3.1 offers one colour scheme: Fire (standard) or optional 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 (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 +150°C
-Medium sensitivity temperature range: -40 +150°C
-Low sensitivity temperature range: -40 +1150°C

Characteristics:

Leader TIC 3.1 with Eco-Boost-System		
Dimensions	L.165 x W.140 x H.85 mm (H= +110mm with optional pistol grip)	
Weight	910g with 2 batt / 825g with 1 batt (+170g with optional pistol grip)	
Display	3,5" LCD / 320 x 240 (76 800) px / Backlighted / Brightness: 800 cd/m²	
Frequency	60Hz Fps = Dual Use Good 9Hz = Non Dual Use Good	
T°C Range	-40° to +1150°C	
Colorization	Std: Fire, Or option: Search	
	Housing	
Material	PUR / Elastomer	
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 384 x 288 (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	0,35m to infinity / F/1.3 speed	
Visual field / FOV	H: 51° / V: 40° / Diagonal: 65°	

	General
Rechargeable batteries	LiFePO ₄ (Lithium Iron Phosphate = safety VS fire), 2.5Ah at 6.6V, 85g
Running time (20°C) with Eco-Boost-System since October 2018	Without video/photo functions: >8h (2 batt) / >4h (1 batt) With video/photo functions: >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: ~2h 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	5 years on camera / 6 years on batteries / 10 years on thermal sensor / 1 year 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



Energy concept

LiFePO4 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)



Camera standard features:

	Color modes		Features					
Designation	Color modes	Max color modes	Battery	Freeze mode	Side trap	Video recording	Picture capture	USB cable
LEADER TIC 3.1 (1CS)	Fire (std.)	1 or 2	V	2			
LEADER TIC 3.1 (2CS)	Fire (std.)	+ Search	1 or 2		2			
LEADER TIC 3.1 P	Fire (std.)	2	√	2		√	V
LEADER TIC 3.1 V	Fire (std.)	2	V	2	V	V	V

P = PictureV = Video + Picture

Camera optional accessories:

	Wireless Transmission kit	Only compatible with cameras equipped with Video recording
Total Control of the	Pack of 2 spare batteries	
	Cable charger	Available in 12/24V , 110V or 240V
BARA	Watertight Carrying case	IP67
	Vehicle charging bay	Charge batteries inside the camera

	Vehicle charging bay with additional slots	Charge batteries in the camera + 2 extra spare batteries
	Power supply for charging bay	Exist in 12/24V , 110V or 240V with US or EU plug
	Retractable lanyard	500gr or 1000gr tension force
	Neck strap	Fire-proof (Kevlar)
	Protection hood	Increases exposure time x2 to high temperatures
1	Removable pistol grip	Pistol grip = 170g Incl. mounting tool

Frequency = Image motion fluidity

Frame Per Second (Hz) of camera can be chosen:

- 60Hz camera has great fluidity but requires a dual use license for outside EU.
- 9Hz camera has lower fluidity but doesn't request any exportation license.



