

LEADER TIC 3.3 LECO-BOOST-SYSTEM



High Resolution Thermal imaging camera

Efficient and versatile = 3 buttons + 3.5" display

Particularly suitable for the First attack. LEADER TIC 3.3 offers unbeatable value and best quality, combined with all important features: 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
- Video recording, picture capture and image freeze
- Batteries: 6 year warranty, 5000 charging cycle
- Safe batteries (LiFePO4): for high temp operations
- Up to 8h running time (2 batteries) w/ Eco-Boost-System
- Germanium window to protect the optics
- Removable Pistol grip option
- Boot time: less than 5 sec
- 3 Large buttons: easy to operate even with gloves
- Also available in 9hz = non dual use good
- **Functions:**
 - ON/OFF 0
 - Zoom x2 x4
 - Colorization selection (3 or 5 modes)
 - Image freeze / picture capture (option)
 - Video recording (option)
 - Replay picture and video on screen
 - Laser pointer (option)



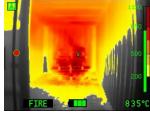






Colour schemes:

LEADER TIC 3.3 offers 3 colour schemes as standard: Fire, Search, and Inverse +2 colour schemes as option: Cold Finder and Multicolour



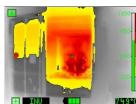
Dark Red >850°C Red > 675°C Orange > 500°C Dark Yellow >350°C Yellow > 200°C White = Hot Black = cold



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



COLD Finder: Blue colour for coldest areas



INVERSE: Same as Fire scheme but White & Black are inversed: White = Cold Black = Hot



MULTICOLOUR: For Industrial applications

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

Characteristics:

Leader TIC 3.3 with Eco-Boost-System				
Dimensions	L.165 x W.140 x H.85 mm (H= +110mm with optional pistol grip)			
Weight	910g - 2 batt / 825g - 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, Search, Inverse Option: Cold Finder and Multicolour			
	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)





Carriera standard features:

	Color modes			Features							
Description	Color modes	Optional color modes	Max color modes	Battery	Freeze mode	Side trap	Video recording	Picture capture	Laser	Zoom	USB cable
LEADER TIC 3.3		& Cold	5	2	V	2				V	
LEADER TIC 3.3 L	& Search		5	2	V	2			V	V	
LEADER TIC 3.3 V	& Inverse		5	2	V	2	V	V		V	V
LEADER TIC 3.3 VL		5	2	V	2	V	V	V	V	V	

V= Video + Picture

L = Laser

Camera optional accessories:

	Wireless Transmission kit	Only compatible with cameras equipped with Video recording
Salari Sa	Pack of 2 spare batteries	
CT .	Cable charger	Available in 12/24V or 100V-240V
MARA	Watertight Carrying case	IP67
	Vehicle charging bay	Charge batteries inside the camera
*	Laser pointer	Only for 3.3 and 4.3 models

	Vehicle charging bay with additional slots	Charge batteries in the camera + 2 extra spare batteries		
	Power supply for charging bay	Exist in 12/24V or 1 100V-2400V with US or EU plug		
	Retractable lanyard	500gr or 1000gr tension force		
(3)	Neck strap	Fire-proof (Kevlar)		
	Protection hood	Increases exposure time x2 to high temperatures		
-	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.



