

LEADER® Tic3.3X NFPA

High Resolution Thermal imaging camera



Efficient and versatile = 3 buttons + 3.5" display

Particularly suitable for the First attack. LEADER TIC 3.3X 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 170 x 148 x 93 mm
- Lightweight 938g with 2 batteries
- 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) with integrated 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
- **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)









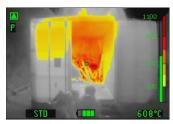
NFPA 1801:2018



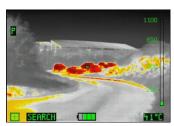
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Color schemes:

LEADER TIC 3.3X offers 3 color schemes as standard: Fire, Search, and Inverse +2 color schemes as option: Cold Finder and Multicolor



STD / FIRE: 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 Yellow-Orange.



COLD Finder: Blue color for coldest areas



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



MULTICOLOR: 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 3.3X with Eco-Boost-System				
Dimensions (approx.)	L.170 x W.148 x H.93 mm (H= +110mm with optional pistol grip)			
Weight	938g with 2 batt / 853g with 1 batt (+170g with optional pistol grip)			
Display	3,5" LCD / 320 x 240 (76 800) px / Backlighted / Brightness: 800 cd/m ²			
Frequency	60Hz Fps			
T°C Range	-40° to +1150°C			
Colorization	Std: Fire, Search, Inverse Option: Cold Finder and Multicolour			
	Housing			
Material	PUR / Elastomer housing with silicon boot around display			
Drop Test	2m on concrete			
IP	IP67 / 1 Meter 30 Minutes			
Heat resistance	150°C for 15min / 260°C for 5min			
Heat resistance	150°C for 15min / 260°C for 5min Sensor			
Heat resistance Micro bolometer type				
Micro bolometer	Sensor Uncooled 17µ Amorphous Silicon aSi			
Micro bolometer type	Sensor Uncooled 17μ Amorphous Silicon aSi Resolution 384 x 288 (110 592 px) 7 – 14 μm NETD: <50mK (<0.05°C)			
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	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: ~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	5 years on camera / 6 years on batteries / 10 years on thermal sensor / 1 year on accessories (chargers, charging bay, etc)				
Certifications	NFPA1801:2018 and ISA12.12.01 / CSA C22.2 N°213 and CE				
Options					
Removable pistol grip	Laser pointer				
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





2X

FIRE

High-Gain

Picture Laser

pointer Zoom

Video

Wlan Stick

Vehicle Charging Bay

Battery Indicator

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)





1082°C

Hot Spot Temperature

Temper-

ature bar

Camera standard features:

	Color modes			Features							
Description	Color modes	Optional color modes	Max color modes	Battery	Freeze mode	Side trap	Video recor- ding	Picture capture	Laser	Zoom	USB cable
LEADER TIC 3.3X			5	2	V	No, but available				V	
LEADER TIC 3.3X L	Fire & Search	Search & Cold	5	2	V	attach- ment points for zippers			V	~	
LEADER TIC 3.3X V	& Inverse		5	2	V	and/or neck strap	V	V		√	V
LEADER TIC 3.3X VL			5	2	V		V	V	V	√	V

V= Video + Picture

L = Laser

Camera optional accessories:

Carrie	ia optional	accessories.
	Wireless Transmission kit (to come)	Only compatible with cameras equipped with Video recording
HOLE THE STATE OF	Pack of 2 spare batteries	
u	Cable charger	Available in 12-24V or 100V-240V
MARA	Watertight Carrying case	IP67
and i	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 100V-240V with US or EU plug
	Retractable lanyard	500gr or 1000gr tension force
(9)	Neck strap	Fire-proof (Kevlar)
	Protection hood (to come)	Increases exposure time x2 to high temperatures
1	Removable pistol grip	Pistol grip = 170g Incl. mounting tool



