



LEADER TIC 3.3

High Resolution Thermal imaging camera

Efficient and versatile = 3 buttons

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 870g 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
- 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 (H: +110mm – W: + 165g)
- Boot time < 5 sec
- 3 Large buttons: easy to operate even with gloves
- Functions:
 - ON/OFF
 - 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



STD / FIRE:

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



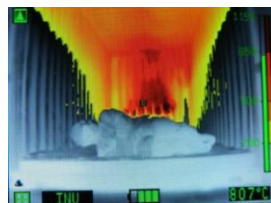
SEARCH:

7 hottest % coloured from red to yellow



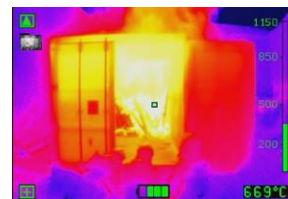
COLD Finder:

Blue colour for coldest areas



INVERSE:

White = Cold
Black = hot



MULTICOLOUR:

For Industrial applications

3 Sensitivity modes with automatic switch:

- 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.
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Characteristics:

LeaderTic 3.3	320x240
Dimensions	L.165 x W.140 x H.85 mm (H.195mm with optional pistol grip)
Weight	835g with 2 batt / 770g with 1 batt (pistol grip +165g, Hand strap +35g)
Display	3,5" LCD / 76.800 Pixel Backlighting / Brightness: 800 cd/m ²
Frequency	60Hz Fps
T°C Range	-40°C 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	
Type	17µ Amorphous Silicon aSi Resolution 384 x 288
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	
Power supply	LiFePO ₄ batteries (85g)
Running time (20°C) 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
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...)
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

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

Wlan module

High-Gain Mode

Freeze/ Picture

Laser pointer

Zoom

Video

Wlan Stick

Temperature bar

Color Scheme

Battery Indicator

Hot Spot Temperature

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:

Description	Color modes			Features							
	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	Fire & Search & Inverse	Multicolour or Cold	5	2	√	2				√	
LEADER TIC 3.3 L			5	2	√	2			√	√	
LEADER TIC 3.3 V			5	2	√	2	√	√		√	√
LEADER TIC 3.3 VL			5	2	√	2	√	√	√	√	√

V= Video + Picture
L = Laser

Camera optional accessories:

	Wireless Transmission kit	Only compatible with cameras equipped with Video recording		Vehicle charging bay with additional slots	Charge batteries in the camera + 2 extra spare batteries
	Pack of 2 spare batteries			Power supply for charging bay	Exist in 12/24V or 1 100V-2400V with US or EU plug
	Cable charger for TIC 3	Available in 12/24V or 100V-240V		Retractable lanyard	500g or 1000g tension force
	Watertight Carrying case	IP67		Neck strap	Fire-proof (Kevlar)
	Vehicle charging bay	Charge batteries inside the camera		Protection hood	Increases exposure time x2 to high temperatures
	Laserpointer	Only for 3.3 models		Removable pistol grip	Incl. mounting tool



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