

MI-TIC S™

AN ADVANCED, PREMIUM
THERMAL IMAGING CAMERA



MI-TIC S is a premium NFPA 1930 (1801) 2025 Edition, certified high resolution thermal imager for firefighting applications.

- Provides a crystal clear image with a dynamic range up to 1,100°C (2,000°F).
- Use to seek very low temperature objects, ideal for casualty search.
- Supplied with a unique dual-use desktop/in-truck charger station.
- Charger station can charge both the thermal imager and a spare battery.
- Multiple charger stations can be daisy-chained together, up to 6 units.
- Lightweight and compact for hand-held ease of use.
- The unique design allows for it to be worn: in the hand, inside a pocket, clipped outside a pocket, clipped to a lanyard or hung around the neck.
- Quick "on/off" button start-up within 5 seconds.

SAFETY

MI-TIC S has Class I, Division 2 and Class II, Division 2 & Class III Division 1 & 2 Non Incendive certifications. The use of Lithium Iron Phosphate technology ensures the MI-TIC S delivers up to 4 hours of battery life over 2,000 plus charge cycles. The MI-TIC rechargeable batteries are inherently safe due to the use of patented nanophosphate® technology.



FEATURES

MI-TIC S comes with the most advanced features available in any thermal imaging camera as standard and include:

- 3.5" (90mm) LCD display
- Direct Temperature Measurement (DTM)
- Multi-mode sensitivity
- Customizable start-up screen
- Firefighting applications modes:
 - Fire / Fire plus / Overhaul / Size-up
- Search and rescue application modes:
 - White hot / Missing person
- Heat seeker / Cold seeker
- x2 and x4 digital zoom
- Laser pointer
- Electronic compass
- Image capture (1,000 images)
- Video capture (up to 40 hours)
- 'Black box' video recording (up to 40 hours)
- Image freeze
- User replaceable protective window (Order code: ARG_MI_RWS)
- No PC software required for image and video download when the camera is docked

KIT

MI-TIC S comes with the following kit as standard:

- Two argus® MI-TIC Lithium Iron Phosphate Battery Packs (Order code: ARG_MI_BLR; NSN: 6140-99-271-4958)
- Charger Station (Order code: ARG_MI_CS; NSN: 6140-99-853-5904)
- Charger Power Supply with US / UK / EU / AUS and Figure 8 adapters (Order code: ARG_MI_PSU; NSN: 6130-99-513-9799)
- Retractable Lanyard (Order code: ARG_MI_RL; NSN 5855-99-154-8733)
- Charger Station Mounting Bracket (Order code: ARG_MI_MB; NSN: 5340-99-705-4328)
- USB Lead for connecting dock to PC / laptop (Order code: ARG_MI_USB; NSN: 5995-99-938-6020)
- Pocket Clip (Order code: ARG_MI_PCLIP_S)
- Quick Start Guide

OPTIONAL ACCESSORIES

- AA Battery Pack (non-NFPA) (Order code: ARG_MI_BAA)
- Hard Case (Order code: ARG_MI_BHC Black / ARG_MI_YHC Yellow)
- Soft Carry Case (Order code: P7030SC)
- Neck Strap (Order code: P7030NS)

Continued overleaf...

SPECIFICATION

OPTICAL DETECTOR	
Sensor type	Uncooled Microbolometer
Sensor material	Amorphous Silicon (ASi)
Resolution	384 x 288px
Pixel size	17µm
Spectral response	7.5 – 14µm
Full system sensitivity/MDTD	50mK (0.05°C) typical
Sensor sensitivity/NETD	<40mK (<0.04°C) typical
Dynamic range	-40°C to 1,100°C (-40°F to 2,000°F)
Refresh rate	60Hz
Direct Temperature Measurement (DTM)	-40°C to 1,100°C (-40°F to 2,000°F)

OPTICAL LENS	
Lens Material	Chalcogenide Composite
Focal length	1m to infinity, optimized at 4m 3ft to infinity, optimized at 13ft
Aperture	f/1.0
Field of view	50° horizontal, 37.5° vertical, 62° diagonal

OPTICAL DISPLAY	
Type	High-grade, industrial, color TFT active matrix LCD
Size	90mm (3.5")
Pixel format	QVGA 320x240 (each pixel RGB format; total 230,400 pixels)
Video input	Sensor synchronized direct digital drive
Backlight	350 cd/m²

MECHANICAL	
Camera dimensions	H: 216mm x W: 110mm x D: 82mm (8.5" x 4.3" x 3.2") with battery
Camera weight	695g (1.5lb) without battery / 870g (1.9lb) with battery
Battery dimensions	H: 87mm x W: 76mm x D: 28mm (3.4" x 3.0" x 1.1")
Battery weight	175g (6oz)
Charger dimensions	H: 167 x W: 112 x D: 120mm (6.5" x 4.4" x 4.7")
Charger weight	600g (1.3lb)
Main camera body	Radel® R-5100 and Santoprene®
LCD window	Ultrason® E 2010 HC
LCD bumper	Santoprene®
Window collar	Radel® R-5100 and Santoprene®
Lens window	Protective window with durable coating

ELECTRICAL	
Power consumption	<3W (typical)
Start-up time	5 seconds (typical)
Battery type	Lithium Iron Phosphate Rechargeable Battery
Battery capacity	1800mAh, 6.4V
Battery life	Up to 4 hours at ambient temperature 22°C (72°F)
Battery charge time	Less than 4 hours
Battery recharge cycles	Over 2,000 cycles
Battery sealing	IP67 (encapsulated)
Battery charging temp.	5°C to 40°C (41°F to 104°F)
Charger input voltage	11V – 30V DC (12V and 24V vehicle systems)
Charger mains adapter	100V – 240V (50Hz, 60Hz)
Charger operating temp.	0°C to 40°C (32°F to 104°F)

STORAGE AND OPERATIONAL ENVIRONMENT

Thermal conditions	The camera has been designed to operate: • continuously between -20°C and 85°C (-4°F and 185°F) • at 150°C (302°F) for 15 minutes • at 260°C (500°F) for 5 minutes
Sealing	IP67; will withstand immersion in water
Impact	The camera will withstand a drop from a height of 2m (6.6ft) onto concrete
Storage	Recommended storage temperature between -20°C and 40°C (-4°F and 104°F)

COMPLIANCE

Performance	NFPA 1930 (1801), 2025 Ed. Standard on Thermal Imagers for the Fire Service
Safety	IEC 62368-1:2014 and related national standards UL 121201 9th Ed. / CSA C22.2 No. 213:2017 Class I, Div 2, Groups C, D T4; Class II, Div 2, Groups F, G T4; Class III Div 1 and Div 2, CAN/CSA C22.2 No. 61010-1-12 UL 61010-1 3rd Ed.
Battery	IEC 62133-2:2017+AMD1:2021. UN/DOT 38.3
Emissions	EN55032:2015, A11 2020. EN50498:2010.
RFI/EMC	FCC CFR 47 subpart 15b, ICES 003:2017, AUS/NZ 4251.1
Immunity	EN55035:2017. A11 2020
RoHS	All parts of the system are compliant with EU directive 2011/65/EC
Laser	IEC/EN 60825-1:2014/A11:2021 3rd Ed and CFR 1040.10 & 1040.11 except for deviations pursuant of Laser Notice No. 56, dated February 21, 2023
Rollover	Meets requirements of NFPA 1901:2016 Standard for Automotive Fire Apparatus

Part Number	Kitting	Resolution	Buttons	Frame Rate
MI-TIC-S-3*	Full Kit	320x240px	3	30Hz
MI-TIC-S-3_01*	Full Kit with Hard Case	320x240px	3	30Hz
MI-TIC-S-3_CAM	Camera Only	320x240px	3	30Hz

* NSN 5855-99-258-4363

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