





The argus[®] Mi-TIC E is the world's smallest high resolution thermal imager for fire fighting applications. The camera provides a crystal clear image with dynamic range up to 760°C (1400°F) and at the same time see very low temperature objects, which is ideal for casualty searches.

Every argus® Mi-TIC E is supplied with a unique dual use desktop/in-truck charger station which securely retains and charges both the thermal imager and a spare battery. The charger stations can be daisy-chained together, up to a maximum of 6 units.

PERSONAL

Weighing approximately 750g (26 oz) the argus[®] Mi-TIC E is a small format thermal imager that can be easily and comfortably held in the palm of your hand. Unlike many thermal imagers, the argus' Mi-TIC E design allows it to be worn in multiple ways - in the hand, inside a pocket, clipped outside a pocket, clipped to a lanyard or hung around the neck.

SIMPLE

With a thumb operated green on/off button and superb start up time of 5 seconds, the argus[°] Mi-TIC E is simple to use.

SAFE

The argus Mi-TIC E has Class I, Division 2 Non Incendive certification. The use of Lithium Iron Phosphate technology ensures the argus[®] Mi-TIC E delivers 2 hours of battery life over 1,000s of cycles. They are inherently safe due to the use of patented nanophosphate[®] technology.

TO BOOK A DEMONSTRATION OR FIND OUT MORE GO TO: argusdirect.com



CAMERA STANDARD FEATURES

The argus[®] Mi-TIC E comes with the most advanced features available in any Thermal Imaging Camera. These include:

2.7" LCD Display	Image Capture (1000 images)*
Direct Temperature Measurement	X2 and X4 Digital Zoom*
(DTM)	Video Capture (16 hours)
Tri-Mode Sensitivity	including 'Black Box' recording
Customisable start-up screen	Image Freeze*
Firefighting application modes* • Fire mode	User Replaceable Germanium window

- Fire mode
- Overhaul
- Size Up
- Inspection

Search and Rescue application modes*

• White Hot

* 3-button variants only

CAMERA STANDARD ACCESSORIES

The argus[®] Mi-TIC E comes with the following accessories as standard:

Two argus [*] Mi-TIC Lithium Iron Phosphate Battery Pack. (Yellow) (Order code: ARG_MI_BLPYN) Truck/Desktop Charger Dock with mains plug and universal mounting plate. (US, UK, Europe, Aus and South America). (Order code: ARG_MI_CS)	Retractable Lanyard. (Order code: ARG_MI_RL)
	USB Connection Lead for connecting dock to PC / Laptop. (Order code: ARG_MI_USB)
	Pocket Clip. (Order code: ARG_MI_PCLIP)
	Quick Start Guide

CAMERA OPTIONAL ACCESSORIES

argus° Mi-TIC Black Hard Case. (Order code: ARG_MI_BHC)

argus[®] Mi-TIC Sunshroud. (Order code: ARG_MI_SS

argus° Soft Carry Case. (Order code: P7030SC) argus[®] Neck Strap. (Order code: P7030NS)

AA Battery Pack. (Order code: ARG_MI_YAA)

(Order code: ARG MI RWS)

No PC Software required for

image and video download -

when the camera is docked,

it is recognised as a removable

device, like a USB memory stick

Please refer to the argus website for details.



CAMERA ORDER CODES

Code	Resolution	Buttons	Frame rate
MI-320-1-E	320x240	1	30Hz
MI-329-1-E	320x240	1	9Hz
MI-320-3-E	320x240	3	30Hz
MI-329-3-E	320x240	3	9Hz

WARRANTY

3 Year Camera Warranty

5 year Battery Warranty

10 year focusing lens and Sensor Warranty

ENVIRONMENTAL DATA

Thermal conditions	The camera has been designed to operate: • continuously between -20°C (-4°F) and +85°C (185°F) or • 150°C (300°F) for 15 minutes • 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 (78 inches) onto concrete
Storage	It is recommended that for maximum effective operational life, the storage temperature is kept between -20°C (-4°F) and +40°C (104°F)

OPTICAL DATA

Detector

Sensor type	Un-cooled Microbolometer
Sensor material	Amorphous Silicon (ASi)
Resolution	384 x 288px
Pixel size	25µm
Spectral response	7.5 – 14µm
MDTD (Full	60mK (0.06°C) typical (Minimum Discernible
camera system	Temperature Difference)
sensitivity)	
NETD (Sensor	<50mK (<0.05°C)
sensitivity)	
Dynamic range	-40°C to 760°C (-40°F to 1400°F)
Refresh rate	60 Hz
Direct Temperature	-40°C to 760°C (-40°F to 1400°F)
Measurement	
(DTM)	
Lens	
Lens material	Germanium Composite
Focal length	1m to infinity, optimised at 4m (3ft to infinity,
	optimised at 13ft)
Aperture	f/1.0
Field of view	50° horizontal, 37.5° vertical, 62° diagonal
Display	
Туре	High grade, Industrial, colour TFT active matrix LCD
Size	69mm (2.7 inches)
Pixel format	QVGA 320 x 240, (each pixel RGB format, total
	pixels 230,400 pixels)
Video input	Sensor synchronised direct digital drive
Backlight	400cd/m ²

MECHANICAL DATA

Camera dims	203mm x 96mm x 71mm
• • • • • • • • • • • • • • • • • • • •	
(H x W x D)	(8 x 3 ³ /4 x 2 ¹³ /16 inches)
Camera weight	600g (21 oz) without battery
	765g (27 oz) with std battery
	855g (30 oz) with high capacity battery
Battery dims	87mm x 76mm x 28mm (std battery)
(H x W x D)	87mm x 76mm x 35mm (high capacity battery)
Battery weight	165g (6oz) (std battery)
	255g (9oz) (high capacity battery)
Charger dims	167mm x 112mm x 120mm
(H x W x D)	
Charger weight	550g (1lb and 3 oz)
Main camera body	Radel®R-5100 and Santoprene®
LCD window	Ultrason® E 2010 HC
LCD bumper	Santoprene®
Ge Window collar	Radel®R-5100 and Santoprene®
Lens window	Germanium (2mm thick) with durable coating

ELECTRICAL DATA

Power	<3 W typical
consumption	
Start-up time	5 seconds typical
Battery type	Lithium Iron Phosphate Rechargeable Battery
Battery capacity	1100 mAh, 6.6V (std battery); 2500mAh, 6.6V (high capacity battery)
Std Battery life	In excess of 2hrs @ ambient temperature (22°C, 72°F)
Std Battery charge time	Less than 2 hours
High Capacity Battery Life	In excess of 5hrs @ ambient temperature (22°C, 72°F)
High Cap, Battery charge time	Less than 4.5 hours
Battery recharge cycles	Over 1000 cycles
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 operating temp.	0°C to 40°C (32°F to 104°F)

COMPLIANCE DATA

Performance	NFPA 1801:2013 Standard on Thermal Imagers for Fire Services
Safety	IEC 60950-1:2005+A1:2009+A2:2013 and related national standards (Tamb +80°C max) ANSI/ISA 12.12.01:2007 Class I, Division 2, Groups C, D T425°C (-13°F) to +70°C (158°F)
Emissions RFI/EMC	BS EN 61000-6-3:2007 + A1:2011, BS EN 50498:2010, ICES-003(2012), FCC CFR-47 Subpart B, AUS/NZ 4251.1
Immunity	BS EN 61000-6-2:2005, BS EN 50498:2010
Vibration/Shock	BS EN 60721-3-2 Class 2M3
RoHS	All parts of the system are compliant with EU directive 2011/65/EC

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