

## Mi-TIC



The Argus® Mi-TIC is the world's smallest NFPA 1801 certified high resolution thermal imager for fire fighting applications. The camera provides a crystal clear image with a superb dynamic range: you can clearly view extremely high temperatures without whiteout, and at the same time still see very low temperature objects, which is ideal for casualty searches.

Every Argus® Mi-TIC 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 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 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 is simple to use.

### SAFE

The Argus® Mi-TIC has Class I, Division 2 Non Incendive certification. The use of Lithium Iron Phosphate technology ensures the Argus® Mi-TIC 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 comes with the most advanced features available in any Thermal Imaging Camera. **These include:**

Direct Temperature Measurement (DTM)

Tri-Mode Sensitivity

Customisable start-up screen

Toggle between application specific colour modes\*

- Fire Mode
- Overhaul/Search Mode

Digital Zoom\*

\* 3-button variants only

User Replaceable Germanium window – no need to send camera back to the factory (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

Picatinny rail – for mounting compatible accessories

### CAMERA STANDARD ACCESSORIES

The Argus® Mi-TIC comes with the following accessories as standard:

Two Argus® Mi-TIC NFPA Lithium Iron Phosphate Battery Packs. (Standard) (Order code: ARG\_MI\_BLPNSN)

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)

Picatinny rail accessory mount. (Order code: ARG\_MI\_RAIL)

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 Video Pack - enables image capture (1000 images), video recording (8 hours) with 'Black Box' feature (Order code: ARG\_MI\_IV)

AA Battery Pack. (Order code: ARG\_MI\_BAA)

Argus® Mi-TIC Black Hard Case. (Order code: ARG\_MI\_BHC)

Argus® Mi-TIC Lithium Iron Phosphate Battery (High capacity). (Order code: ARG\_MI\_BLPL)

Argus® Mi-TIC Lithium Iron Phosphate Battery (Xtra) (Order code: ARG\_MI\_BLPXN)

Argus® Mi-TIC Sunshroud. (Order code: ARG\_MI\_SS)

Argus® Soft Carry Case (Order code: (P7030SC)

Argus® Neck Strap (Order code: (P7030NS)

Please refer to the Argus website for details  
Attachable accessories not tested to NFPA 1801-2013

**CAMERA ORDER CODES**

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

**WARRANTY**

24-month warranty as standard (Rechargeable battery pack excluded - Warranty for 12 months).

Warranty can be extended for up to an additional three years at the time of purchase (exclusions apply).

**ENVIRONMENTAL DATA**

<b>Thermal conditions</b>	The camera has been designed to operate: <ul style="list-style-type: none"> <li>continuously between -20°C (-4°F) and +85°C (185°F) or</li> <li>150°C (300°F) for 15 minutes</li> <li>260°C (500°F) for 7 minutes</li> </ul>
<b>Sealing</b>	IP67, will withstand short-term immersion in water
<b>Impact</b>	The camera will withstand a drop from a height of 2m (78 inches) onto concrete
<b>Storage</b>	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**

<b>Sensor type</b>	Un-cooled Microbolometer
<b>Sensor material</b>	Amorphous Silicon (ASi)
<b>Resolution</b>	384 x 288px
<b>Pixel size</b>	25µ
<b>Spectral response</b>	8 – 14µm
<b>MDTD (Full camera system sensitivity)</b>	70 mK (0.07°C) typical (Minimum Discernible Temperature Difference)
<b>NETD (Sensor sensitivity)</b>	<50 mK (<0.05°C)
<b>Dynamic range</b>	-40°C to 1100°C (-40°F to 2000°F)
<b>Refresh rate</b>	60 Hz
<b>Direct Temperature Measurement (DTM)</b>	-40°C to 1100°C (-40°F to 2000°F)

**Lens**

<b>Lens material</b>	Germanium Composite
<b>Focal length</b>	1m to infinity, optimised at 4m (3 ft to infinity, optimised at 13 ft)
<b>Aperture</b>	f/1.0
<b>Field of view</b>	50° horizontal, 37.5° vertical

**Display**

<b>Type</b>	High grade, Industrial, colour TFT active matrix LCD
<b>Size</b>	69mm (2.7 inches)
<b>Pixel format</b>	QVGA 320 x 240, (each pixel RGB format, total pixels 230,400 pixels)
<b>Video input</b>	Sensor synchronised direct digital drive
<b>Backlight</b>	400cd/m <sup>2</sup>

**MECHANICAL DATA**

<b>Camera dims (H x W x D)</b>	203mm x 96mm x 71mm (without Picatinny rail)
<b>Camera weight</b>	580g (21 oz) without battery 755g (27 oz) with std battery 835g (29 oz) with high capacity battery
<b>Battery dims (H x W x D)</b>	88mm x 76mm x 27mm (std battery) 88mm x 76mm x 35mm (high capacity battery)
<b>Battery weight</b>	175g (6 oz) (std battery) 255g (9 oz) (high capacity battery)
<b>Charger dims (H x W x D)</b>	167mm x 112mm x 120mm
<b>Charger weight</b>	550g (19 oz)
<b>Main camera body</b>	Radel®R-5100 and Santoprene®
<b>LCD window</b>	Ultrason® E 2010 HC
<b>LCD bumper</b>	Santoprene®
<b>GE Window collar</b>	Radel®R-5100 and Santoprene®
<b>Lens window</b>	Germanium (2mm thick) with durable coating

**ELECTRICAL DATA**

<b>Power consumption</b>	<3 W typical
<b>Start-up time</b>	5 seconds typical
<b>Battery type</b>	Lithium Iron Phosphate Rechargeable Battery
<b>Battery capacity</b>	1100 mAh, 6.6V (std battery); 2500mAh, 6.6V (high capacity battery)
<b>Std Battery life</b>	In excess of 2hrs @ ambient temperature (22°C, 72°F)
<b>Std Battery charge time</b>	Less than 2 hours
<b>High Capacity Battery Life</b>	In excess of 5hrs @ ambient temperature (22°C, 72°F)
<b>High Cap, Battery charge time</b>	Less than 4.5 hours
<b>Battery recharge cycles</b>	Over 1000 cycles
<b>Battery sealing</b>	IP67
<b>Battery charging temp.</b>	5°C to 40°C (41°F to 104°F)
<b>Charger input voltage</b>	11V – 30V DC (12V and 24V vehicle systems)
<b>Charger operating temp.</b>	0°C to 40°C (32°F to 104°F)

**COMPLIANCE DATA**

<b>Performance</b>	NFPA 1801 - 2013 Standard on Thermal Imagers for Fire Services
<b>Safety</b>	IEC 60950-1 and related national standards (T <sub>amb</sub> +80°C max) ANSI/ISA 12.12.01:2007 Class I, Division 2, Groups C, D T4. -25°C (-13°F) to +70°C (158°F) - BLPSN and BLPXN batteries only.
<b>Emissions RFI/EMC</b>	BS EN 61000-6-3:2007 + A1:2011, BS EN 50498:2010, ICES-003(2012), FCC CFR-47 Subpart B, AUS/NZ 4251.1
<b>Immunity</b>	BS EN 61000-6-2:2005, BS EN 50498:2010
<b>Vibration/Shock</b>	BS EN 60721-3-2 Class 2M3
<b>RoHS</b>	All parts of the system are compliant with EU directive 2011/65/EC

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