

**DATA SHEET**  
CAMERA SPECIFICATION



**SAFETY THROUGH  
INNOVATION**

**argus<sup>®</sup>**  
thermal imaging from e2v

**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**

<b>Detector</b>	
<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</b>	70 mK (0.07°C) typical (Minimum Discernible Temperature Difference)
<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)
<b>Lens</b>	
<b>Lens material</b>	Germanium Composite
<b>Focal length</b>	1m to infinity, optimised at 4m (3 feet to infinity, optimized at 13 feet)
<b>Aperture</b>	f/1.0
<b>Field of view</b>	50° horizontal, 37.5° vertical
<b>Display</b>	
<b>Type</b>	High grade, Industrial, color 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 synchronized direct digital drive
<b>Backlight</b>	400cd/m2

**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 (6oz) (std battery) 255g (9oz) (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 <sup>®</sup> R-5100 and Santoprene <sup>®</sup>
<b>LCD window</b>	Ultrason <sup>®</sup> E 2010 HC
<b>LCD bumper</b>	Santoprene <sup>®</sup>
<b>GE Window collar</b>	Radel <sup>®</sup> R-5100 and Santoprene <sup>®</sup>
<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 (Tamb +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)
<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

# THE SMALLEST, LIGHTEST NFPA CERTIFIED THERMAL IMAGING CAMERA.



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To arrange a demonstration visit

**argusdirect.com**





## MINI THERMAL IMAGING CAMERA

LOCATE CASUALTIES / PROTECT FIRE FIGHTERS

argus® has been working alongside fire fighters for over 30 years and with this wealth of knowledge we have designed thermal imaging cameras specifically to meet the demands of fire and rescue situations.

# OVER 30 YEARS OF INNOVATION



1980

The first-ever hand-held thermal imaging camera developed for the UK Navy

2015

The smallest ever, high resolution, NFFPA certified thermal imager for fire fighters

## MI-TIC THE SMALLEST NFFPA CERTIFIED HIGH RESOLUTION THERMAL IMAGING CAMERA, SPECIFICALLY DESIGNED FOR FIRE FIGHTERS.

argus® is an e2v brand focused on designing and manufacturing the highest quality thermal imaging cameras on the market.

The argus® Mi-TIC is the world's smallest NFFPA 1801 certified high resolution thermal imager for firefighting 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.

argus® developed the first-ever hand-held thermal imaging camera for the UK Navy in the 1980's, and we haven't stopped innovating since.



## KEY FEATURES

- Unparalleled image presentation
- Simple functionality
- Lightweight

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.



Inside the box

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