The Mi-TIC E L is part of the argus range of thermal imaging cameras and is the most affordable high resolution large screen 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.

The Mi-TIC E L is available 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 865g (1lb 15oz) the Mi-TIC E L thermal imager can be easily and comfortably held in the palm of your hand. Unlike many thermal imagers, the Mi-TIC E L 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 Mi-TIC E L is simple to use.

SAFE
The Mi-TIC E L has Class I, Division 2 and Class II, Division 2 Non-Incendive certifications. The use of Lithium Iron Phosphate technology ensures the Mi-TIC E L delivers in excess of 3 hours of battery life over 2,000 plus charge cycles. They are inherently safe due to the use of patented nanophosphate* technology.

CAMERA STANDARD FEATURES
The Mi-TIC E L comes with the most advanced features available in any Thermal Imaging Camera. These include:

- 3.5” LCD Display
- Direct Temperature Measurement (DTM)
- Tri-Mode Sensitivity
- Customisable start-up screen
- Firefighting applications modes* - Fire mode, Overhaul, Size Up, Inspection
- Search and Rescue application modes* - White Hot, Heat Seeker Blue
- X2 and X4 Digital Zoom*
- Image Capture (1000 images)*
- Video Capture (16 hours) including ‘Black Box’ recording
- Image Freeze*
- User Replaceable Germanium window
- 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

CAMERA OPTIONAL ACCESSORIES
The Mi-TIC E L can be purchased with the following accessories:

- AA Battery Pack. (Order code: ARG_MI_YAA)
- argus® Mi-TIC Lithium Iron Phosphate Battery Pack (Yellow). (Order code: ARG_MI_BLPYN-2)
- 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)

* 3-button variants only

CAMERA WARRANTY
BATTERY WARRANTY
SENSOR AND LENS WARRANTY
3 YEAR 5 YEAR 10 YEAR
Mi-TIC E L Mi-TIC E L Mi-TIC E L

www.avon-protection.com
**ENVIRONMENTAL DATA**

**Thermal conditions**
The camera has been designed to operate:
- continuously between -20°C (-4°F) and +85°C (185°F)
- 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)

**MECHANICAL DATA**

**Camera dims**
216mm x 110mm x 82mm
(8 1/4 x 4 1/4 x 3 1/4 inches)

**Camera weight**
700g (1lb 9oz) without battery
865g (1lb 15oz) with standard battery

**Battery dims**
87mm x 76mm x 28mm

**Battery weight**
165g (6oz) (standard battery)

**Charger dims**
167mm x 112mm x 120mm

**Charger weight**
550g (1lb and 3oz)

**Detector**
Sensor type: Un-cooled Microbolometer

**Sensor material**
Amorphous Silicon (ASi)

**Resolution**
384 x 288px

**Pixel size**
17μm

**Spectral response**
7.5 – 14μm

**MDTD (Full camera system sensitivity)**
50mK (0.05°C) typical

**NETD (Sensor sensitivity)**
<50mK (<0.05°C)

**Dynamic range**
-40°C to 760°C (-40°F to 1400°F)

**Refresh rate**
60Hz

**Direct Temperature Measurement (DTM)**
-40°C to 760°C (-40°F to 1400°F)

**Lens**
Lens material: Germanium Composite

**Focal length**
1m to infinity, optimised at 4m (3 ft to infinity, optimised at 13ft)

**Aperture**
f/1.0

**Field of view**
50° horizontal, 37.5° vertical, 62° diagonal

**Display**
Type: High grade, Industrial, colour TFT active matrix LCD

**Size**
90mm (3.5 inches)

**Pixel format**
QVGA 320 x 240, (each pixel RGB format)

**Video input**
Sensor synchronised direct digital drive

**Backlight**
350cd/m²

**COMPLIANCE DATA**

**Performance**
NFPA 1801:2018 Standard on Thermal Imagers for the Fire Service

**Safety**
IEC 62368-1:2014 and related national standards
ANSI/ISA 12.12.01:2015 Class I, Div 2, Groups C, D T4;
Class II, Div 2 Groups F, G T4

**Emissions**
RFI/EMC
- EN 55032:2015, Class A
- EN 54098:2010
- FCC CFR 47 subpart 15b, ICES 003:2017
- AUS/NZ 4251.1

**Immunity**
EN 55103-2:2009

**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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