



The **argus**<sup>®</sup> range of thermal imaging cameras

PRODUCT PORTFOLIO

NFPA1801:2021  
**COMPLIANT**



The **argus**<sup>®</sup> range of thermal imaging cameras - the most extensive offering compliant to the latest NFPA 1801:2021 standard.

### **Heritage**

Our engineers developed the first ever hand held thermal imager for firefighting over 40 years ago. Having been developed for firefighting in the UK, the camera was adopted by UK Naval firefighting personnel. Its purpose was to allow users to navigate through smoke-filled compartments on naval vessels. These were also the first commercial hand held thermal imaging cameras ever used by US firefighters.

### **Safety Through Innovation**

Our engineers haven't stopped innovating since. Today the Mi-TIC™ portfolio includes the lightest and smallest NFPA 1801:2021 compliant thermal imagers available, alongside a wider range of cameras developed from the same technology. Whether it is the safest battery technology, unmistakable application of colors, or the highest available dynamic temperature range, argus innovations are always specifically designed with firefighter safety in mind.

### **Market Leaders**

Avon Protection is the leading provider of thermal imagers in Europe, with growing share in North America and Asia.

### **Manufacturing Capabilities**

The full argus range of thermal imagers is manufactured in the UK, where each camera is subjected to the strictest quality processes.



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# Powered by the IGNIS Engine

The argus range of thermal imaging cameras from Avon Protection is powered by the IGNIS Engine, a technology first introduced in the Mi-TIC in 2018. After identifying new improvement opportunities, our engineers redesigned the core components to introduce a new sensor and lens to the entire portfolio of Mi-TIC cameras.

The IGNIS Engine, along with its sensor and lens improvements, provides unrivalled scene detail, enabling firefighters to see more of the important background details such as exit points, obstacles, and casualties, even in the presence of a fully developed fire.

We have redesigned, redeveloped and redefined the idea of thermal imagers for firefighting and continue to lead the market with IGNIS Engine technology.





## Standard Features (1- and 3-button cameras)

### **Dynamic Scene Enhancement**

Dynamic Scene Enhancement (DSE) technology increases the contrast between the fire and important details at lower temperatures such as exit points and obstacles.

### **NFPA “TI BASIC” Application Mode**

Standard application mode for quick and easy image interpretation:

**Fire Mode** – High dynamic range and imaging for interior structural firefighting.

### **Software Customization Tool**

Enables end users to configure the functionality that they desire.

### **“Black Box” Recording**

Permanently records thermal video when the camera is turned on.

### **Tri-Mode Sensitivity**

Automatically switches to the optimum level of sensitivity to give the lowest amount of noise over the widest possible temperature range.

### **Customizable Start-Up Screen**

Personalize your camera with any image when the camera is turned on.

### **Software Updates**

Free periodic software updates available online to enhance performance and add features.

## Standard Features (3-button cameras only)

### **Direct Temperature Measurement**

Measures the “spot” temperature for quantifying hazards and comparing objects.

### **Image and Video Capture**

Image and video recording for post-operation and training review.

### **Image and Video Playback**

Allows images and video to be played back on screen.

### **Image Freeze**

Allows firefighters to investigate potentially high temperature areas in the fire scene (e.g. loft space) with the shortest possible exposure time.

### **NFPA “TI BASIC PLUS” Application Modes**

Six (6) specific application modes for enhanced operations and situational awareness:

**Fire Plus Mode** – High dynamic range and imaging with spot temperature measurement for interior structural firefighting.

**Overhaul Mode** – Quickly identify hottest spots with red colorization.

**Size-Up Mode** – Easy colorization for size-up from outside of the fire scene.

**Inspection Mode** – Full color scale for preventative maintenance applications.

**White Hot Mode** (grayscale only) – White hot for general applications with no heat colorization.

**Missing Person Mode** – Optimized contrast and blue colorization used to enhance search efforts in non-fire applications (wilderness, auto accidents, etc.).

## Advanced Features

### **Extended Temperature Range**

Extended dynamic temperature range on the Mi-TIC 320 and Mi-TIC S (2000°F/1100°C) allows firefighters to see detail even in the largest and hottest fires.

### **Laser**

Laser pointer to aid communication.



### **Electronic Compass**

Displays letters to show directional information for faster rescues and improved situational awareness.



### **Heat Seeker**

Identifies and tracks the hottest point in the scene for directing the fire attack.



### **Cold Seeker**

Identifies and tracks the coldest point in the scene (e.g. to locate the SCBA of a downed firefighter).





Fire Mode



Size-Up Mode



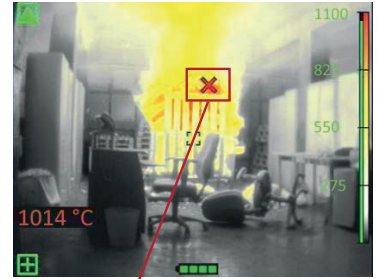
Missing Person Mode



Fire Plus Mode



Inspection Mode



Heat Seeker Feature



Overhaul Mode



White Hot Mode



Cold Seeker Feature

STANDARD FEATURES	Mi-TIC €	Mi-TIC € L	MI-TIC 320	Mi-TIC S
320x240 Resolution	●	●	●	●
Digital spot temperature measurement	○	○	●	●
Tri-Mode Sensitivity	●	●	●	●
Customizable start-up screen	●	●	●	●
Pocket clip and retractable lanyard	●	●	●	●
“Black box” recording	●	●	●	●
Data transfer software and hardware	●	●	●	●
Digital video and image capture	○	○	●	●
Display size (diagonal)	2.7"/69mm	3.5"/90mm	2.7"/69mm	3.5"/90mm
Dynamic range	1400°F/760°C	1400°F/760°C	2000°F/1100°C	2000°F/1100°C
Multiple color and fire viewing modes	○	○	●	●
Highest dynamic range			●	●
Heat Seeker to locate hottest spot in the scene			●	●
Cold Seeker to locate coldest spot in the scene			●	●
Electronic compass for greater scene awareness				●
Laser pointer to aid communication				●

Available with 3-button cameras ○ Standard ●

APPLICATIONS	SUB-APPLICATIONS	Mi-TIC €	Mi-TIC € L	Mi-TIC 320	Mi-TIC S
Ventilation location selection		■	■	■	■
Search and rescue (fire & non-fire)		■	■	■	■
Seat of fire localization		■	■	■	■
Overhaul		□	■	■	■
Size-up		□	■	■	■
Interior structural firefighting	Fully developed fire (post flashover)	□	□	■	■
Interior structural firefighting	Rapid fire development (pre-flashover)	□	□	■	■
Interior structural firefighting	Burning materials	□	□	■	■
Interior structural firefighting	Surrounding materials	□	□	■	■
Interior structural firefighting	Room contents	□	□	■	■
Interior structural firefighting	Seat of fire localization	□	□	■	■
Hot spot localization		□	□	■	■
Cold spot localization		□	□	□	■
Directional awareness/compass					■

Better □ Best ■

# Mi-TIC E™

Lightweight size-up imager and an affordable interior structural firefighting camera. The combination of low cost and long list of features make this the perfect tool for any fire department.

- Available in 1- or 3-button options.
- 3-button models are user configurable.
- The smallest, lightest, most affordable NFPA 1801:2021 compliant thermal imager for firefighters.
- Small and wearable at just 1.7lb (755g) with a 2.7" (69mm) display.
- High dynamic temperature range: 1400°F (760°C) for excellent detail in day-to-day fire scenarios.



Enhanced image quality powered by the latest sensor technology and class leading battery technology.



## FEATURES

2.7" (69mm) LCD Display

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Direct Temperature Measurement (DTM)\*

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Tri-Mode Sensitivity

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Customizable Start-Up Screen

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Firefighting Application Modes

- Fire
  - Fire Plus\*
  - Overhaul\*
  - Size-Up\*
- 

Search and Rescue Application Modes

- White Hot\*
  - Missing Person\*
- 

X2 and X4 Digital Zoom\*

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Image Capture (1000 images)\*

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Video Capture (up to 16 hours)\*

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"Black Box" Video Recording (up to 16 hours)

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Image Freeze\*

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User Replaceable Germanium Window  
(Order code: ARG\_MI\_RWS)

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No PC Software required for image and video download  
– when the camera is docked, it is recognized as a  
removable device (like a USB memory stick)

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\* 3-button variants only

Lowest total cost of  
ownership firefighter  
thermal imaging camera.

# Mi-TIC EL™

Lightweight size-up imager with an oversized display and an affordable interior structural firefighting camera. The combination of low cost and long list of features make this the perfect tool for any fire department.

- Available in 1- or 3-button options.
- 3-button models are user configurable.
- The smallest, lightest, most affordable large screen NFPA 1801:2021 compliant thermal imager for firefighters.
- Small and wearable at just 1.9lb (870g) with a large 3.5" (90mm) display.
- High dynamic temperature range: 1400°F (760°C) for excellent detail in day-to-day fire scenarios.



Enhanced image quality powered by the latest sensor technology and class leading battery technology.



## FEATURES

3.5" (90mm) LCD Display

Direct Temperature Measurement (DTM)\*

Tri-Mode Sensitivity

Customizable Start-Up Screen

Firefighting Application Modes

- Fire
- Fire Plus\*
- Overhaul\*
- Size-Up\*

Search and Rescue Application Modes

- White Hot\*
- Missing Person\*

X2 and X4 Digital Zoom\*

Image Capture (1000 images)\*

Video Capture (up to 16 hours)\*

"Black Box" Video Recording  
(up to 16 hours)

Image Freeze\*

User Replaceable Germanium Window  
(Order code: ARG\_MI\_RWS)

No PC Software required for image and  
video download – when the camera is  
docked, it is recognized as a removable  
device (like a USB memory stick)

\* 3-button variants only



Large screen firefighter  
thermal imaging camera.

# Mi-TIC 320™

Lightweight high-end thermal imaging with premium dynamic range and firefighting capabilities.

- User configurable function buttons.
- The smallest, lightest, high dynamic range NFPA 1801:2021 compliant thermal imager for firefighters.
- Small and wearable at just 1.7lb (755g) with a 2.7" (69mm) display.
- Highest dynamic temperature range: 2000°F (1100°C) for excellent detail in heavy firefighting applications.



Enhanced image quality powered by the latest sensor technology and class leading battery technology.





## FEATURES

2.7" (69mm) LCD Display

Direct Temperature Measurement (DTM)

Tri-Mode Sensitivity

Customizable Start-Up Screen

Firefighting Application 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

Image Capture (1000 images)

Video Capture (up to 16 hours)

"Black Box" Video Recording  
(up to 16 hours)

Image Freeze

User Replaceable Germanium Window  
(Order code: ARG\_MI\_RWS)

No PC Software required for image and video download – when the camera is docked, it is recognized as a removable device (like a USB memory stick)



Smallest full feature firefighter thermal imaging camera.

# Mi-TICS™

Premium lightweight thermal imaging with industry leading dynamic range and oversized display for top performance in the most extreme firefighting environments. The most versatile thermal imager in the market.

- User configurable function buttons.
- The smallest, lightest, high dynamic range, large screen NFPA 1801:2021 compliant thermal imager for firefighters.
- Small and wearable at just 1.9lb (870g) with a large 3.5" (90mm) display.
- Highest dynamic temperature range: 2000°F (1100°C) for excellent detail in heavy firefighting applications.
- Laser pointer, compass, Heat Seeker (hottest spot identifier), Cold Seeker (coldest spot identifier) and much more.



Enhanced image quality powered by the latest sensor technology and class leading battery technology.



## FEATURES

3.5" (90mm) LCD Display

Direct Temperature Measurement (DTM)

Tri-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 (1000 images)

Video Capture (up to 16 hours)

"Black Box" Video Recording  
(up to 16 hours)

Image Freeze

User Replaceable Germanium Window  
(Order code: ARG\_MI\_RWS)

No PC Software required for image and  
video download – when the camera is  
docked, it is recognized as a removable  
device (like a USB memory stick)

Best-in-class feature set firefighter  
thermal imaging camera.

# Carry Options

## Soft Carry Case

- Made of lightweight Cotton Drill material.
- Provides an easy way to carry the camera.
- Protects camera and its accessories.



Soft Carry Case

## Hard Carry Case

- Available in black or yellow.
- Designed to safely stow all Mi-TIC models and accessories.
- Case shell made of polypropylene (PP).
- Certified with the STANAG 4280, DEF STAN 81-41 and ATA 300 standards.
- Automatic air pressure compensation valve.
- Strong, dustproof, waterproof (IP67 certified).
- Temperature resistant from -22°F (-30°C) up to 176°F (80°C).
- Rubberized handle.
- Stackable.
- Two eyelets for padlocks (Ø 0.3").



Black Hard Carry Case  
(camera contents not included)

## Retractable Lanyard

- Length of 235mm extending to 470mm.
- NFPA 1801:2021 compliant with Mi-TIC.



Retractable Lanyard

# Battery Options

## “AA” Battery Pack

- Available in red and yellow.
- Uses 7 “AA” batteries.
- Powers camera in excess of 4 hours.
- Provides a non-NFPA alternative to the rechargeable Mi-TIC batteries.



“AA” Battery Pack

## Rechargeable Battery Pack

- Available in red and yellow.
- Powers camera for up to 4 hours.
- Features a thumb operated latch that allows it to be easily removed and re-attached to the camera during an exercise or back at the station without a tool.
- Uses Lithium Iron Phosphate (LiFeP04) technology which does not suffer from the thermal runaway and consequent risk of explosion that is typical of other common Lithium batteries, making it the right choice for use in high operating temperatures.
- Includes a 5-year warranty.
- Allows over 2000 charge cycles.



Rechargeable Battery Packs

# Charging Station

- Dual use desktop/in-truck charger station.
- Download image and video via USB.
- Supplied with every camera.
- Truck rollover NFPA 1901:2016 compliant.
- Charges camera and spare battery.
- 120V/240V AC or 12/24V DC.
- Daisy-chain up to 6 chargers.



Charging Station

## Warranties

### Mi-TIC E & Mi-TIC E L

#### Standard 3-5-10 warranty

- Camera 3 years.
- Batteries 5 years.
- Sensor and Lens 10 years.

### Mi-TIC 320 & Mi-TIC S

#### Extended 5-5-10 warranty

- Camera 5 years.
- Batteries 5 years.
- Sensor and Lens 10 years.



# Purchasing Options

- (●) Item is included as standard when ordering full kits.
- (○) Item is available to purchase separately.



	ORDER CODE	Mi-TIC E		Mi-TIC E L		Mi-TIC 320		Mi-TIC S	
1-Button Camera	Refer to Catalog	●	○	●	○	●			
3-Button Camera	Refer to Catalog	●	○	●	○	●		●	
Retractable Lanyard	ARG_MI_RL	●	○	●	○	●	○	●	○
Charger Station	ARG_MI_CS	●	○	●	○	●	○	●	○
AC and DC Power Cords	ARG_MI_PSU	●	○	●	○	●	○	●	○
Charger Mounting Bracket	ARG_MI_MB	●	○	●	○	●	○	●	○
2 x Rechargeable Batteries (4+ hrs)	ARG_MI_BLR; ARG_MI_BLY	●	○	●	○	●	○	●	○
"AA" Battery Pack	ARG_MI_YAA; ARG_MI_BAA		○		○		○		○
Black Hard Case	ARG_MI_BHC		○		○		○		○
Yellow Hard Case	ARG_MI_YHC		○		○		○		○
Neck Strap	P7030NS		○		○		○		○
Standard 3-5-10 Warranty	-	●		●					
Extended 5-5-10 Warranty	ARG_MI_5-5-10		○		○	●		●	



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