Because every life has a purpose...

EVOLUTION® 6000 Thermal Imaging Cameras
MSA protects firefighters’ lives.

MSA introduced one of the first firefighting thermal imaging cameras over a decade ago. In the years following, we’ve refined TIC design through innovation and expertise, delivering several successful generations of market-leading TICs. We continue this commitment to the fire service by releasing the **EVOLUTION® 6000 TIC**, a new NFPA-compliant platform to make TIC use easier, faster, lighter, and more intuitive.

The EVOLUTION 6000 TIC offers many of the same benefits that firefighters have come to expect from MSA, as well as new ones to take user experience to another level. The new EVOLUTION 6000 TIC platform comprises three new models to offer the best mix of features, including NFPA 1801 compliance, to support the thermal imaging needs of all first responders.

New and enhanced features include best-in-class image quality, light weight, laser pointer and range finder, compass, integrated video and picture capture and integrated wireless video transmission system. All EVOLUTION 6000 TIC models are built with high resolution 320x240 imaging cores. All cameras employ NFPA Basic startup mode to eliminate confusion when firefighters from different departments share tools.

- **NFPA-compliant** third-party certification that builds upon MSA’s long experience with thermal imaging
- **Nonincendive equipment** (UL Class 1, Div 2) for additional safety within combustible environments
- **Fireground-tough product design** provides waterproof shock resistance
- **Camera Configuration Application** customize camera settings to meet your needs
- **Patent-pending compass** assists in faster operations and improved situational awareness
- **Three carabiner attachment points** offer firefighters flexibility of camera attachment
- **Patented dual-handle design** for easy handoff and better ergonomics on the fireground
Field-replaceable germanium lens saves on repair costs

Laser pointer pinpoints hot spots to allow fast, specific action

LED flashlight or patent-pending laser range finder options enable faster, more precise action

Six color palettes for multiple views of thermal image

2X/4X zoom for a closer look at areas of interest

Integrated video transmitter sends video for remote monitoring and improved decision making

Integrated picture/video capture saves pictures and video for future review and training use
EVOLUTION® 6000 Thermal Imaging Cameras

EVOLUTION 6000 Basic TIC

Provides easy to use TIC performance – a simplified fireground tool.

- Economical, durable value to fit your station’s budget
- Save on repair costs with rugged, waterproof and shock-resistant product design
- 320X240 high definition image quality offers excellent resolution
- Standard flashlight provides extra visibility for firefighter proximity to enhance safety and situational awareness
- Laser pointer pinpoints hot spots and other areas of interest to allow others to take fast, specific action
- Patented dual-handle design, for easy handoff on the fireground
- Three carabiner attachment points offer flexibility in attaching camera to firefighter

Colorized basic image

Three carabiner attachment points

Patented dual-handle design

Field-replaceable germanium lens

Flashlight/laser pointer
EVOLUTION 6000 Plus TIC

Adds additional tools to aid and improve fireground safety and decision making.

- 2X/4X zoom gets a closer look at areas of interest
- Six user-selectable color palettes provide flexibility to view thermal images
- Compass allows for faster rescues and improved situational awareness by displaying letters or icon for directional information
- Optional integrated video transmitter enables remote monitoring for improved decision making and situational awareness
- Optional integrated range finder offers more usable information to enable faster, more precise action from 16 to 210 feet (5 to 70 meters) away (replaces flashlight option)
EVOLUTION 6000 Xtreme TIC

Provides same standard and optional features as EVOLUTION 6000 Plus TIC. Xtreme model adds:

- Integrated picture and video capture save action to camera’s internal hard drive
- Download pictures and video to your desktop
- Use pictures and video for training, after-action review and documentation

Camera Configuration

Application

Video capture

Picture capture
Applications

Size up:
Ideal for locating the seat of any fire and for pinpointing and isolating hidden fires, as well as for location of heat accumulation areas and possible ventilation points. Optional real time video broadcast directly from operations scene to incident command control assists firefighters in making strategic decisions and increasing fireground safety.

Search / rescue:
Search for victims and downed firefighters, locate missing/ injured persons, search for suspects, or quickly scan areas for heat signatures using available six color palettes.

Operations:
Monitor building conditions to help avoid collapse, aid in decision-making process of placing firefighters on scene to find fire extensions.

Overhaul:
Search for remaining hot spots and areas of building instability. User-selectable color palettes support code inspections and maintenance.

Model Comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>EVOLUTION 6000 TIC</th>
<th>EVOLUTION 6000 Plus TIC</th>
<th>EVOLUTION 6000 Xtreme TIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH DEFINITION 320X240 THERMAL IMAGING CORE</td>
<td>•</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LASER POINTER</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>LED FLASHLIGHT*</td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>THREE CARABINER ATTACHMENT POINTS</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>FIELD-REPLACEABLE GERMANIUM LENS</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>PATENTED DUAL-HANDLE DESIGN</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>SIX COLOR PALETES</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>2X/4X ZOOM</td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>COMPASS</td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>OPTIONAL INTEGRATED VIDEO TRANSMITTER</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>OPTIONAL RANGE FINDER</td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>INTEGRATED PICTURE CAPTURE</td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>INTEGRATED VIDEO CAPTURE</td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

* Not available with range finder option
## Technical Specifications

### Construction
- Flame retardant (material passes NFPA direct flame exposure test), IP67 [withstands immersion to 3 ft (1 meter)]

### Approximate Dimensions
- 7.3” x 4.8” x 11.6” (LxWxH) (185 mm x 122 mm x 295 mm)

### Sensor
- Uncooled VOX microbolometer

### Array Size
- 320x240

### Weight
- 2.65 lbs (1.2 kg)

### Power Source
- Rechargeable lithium-ion battery

### Operating Time
- 3.5 hours at nominal 72°F (22°C)

### Field of View
- 48° H; 37° V

### Range Finder
- Maximum range 210 ft (70 m)

### Intrinsically Safe
- Nonincendive equipment (UL Class 1, Div 2)

### Approvals
- Designed to meet NFPA 1801

### Net Equivalent Temperature Difference
- High Sensitivity 40 mK (0.040°C) (typical), 78 mK (0.078°C) (max)
- Low Sensitivity 234 mK (0.234°C)

### Temperature Measurement
- ± 18 °F (10 °C) or ±10 %, whichever is greater

### Image Storage
- Number of images stored, 1000 minimum

### Video Storage
- Length – 4-hour minimum

### Environment
- Ambient Temperature and Operating Time
  - 176º F (80ºC) > 30 minutes
  - 248º F (120ºC) > 20 minutes
  - 500º F (260ºC) > 6 minutes
  - -22º F (-30ºC) > 40 minutes
  - -40º F (-40ºC) > 25 minutes

### ACCESSORIES
- 10145859 Multi-use charger (12V) kit
- 10148136 Vehicle mounted charger system
- 10147390 Vehicle mounting bracket
- 10145748 Reflective label ID kit (includes 3 sets of reflective ID labels)
- 10040005 Carabiner
- 10040226 Retractable lanyard
- 10039515 Shoulder strap
- 10039516 Wrist strap
- 10148391-SP Protective display covers (3 per package)

### Video Transmitter Receiving Systems
- 10048134 Mini Receiver Kit (frequency: 2327 / 2390 MHz)
- 10119319 Deluxe Receiver Kit (frequency: 2327 / 2390 MHz)

For other frequencies, please contact your local MSA affiliate.

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