Because every life has a purpose...
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 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
**EVLUTION 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 ads:

- 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
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>
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<tr>
<th>Feature</th>
<th>EVOLUTION 6000 TIC</th>
<th>EVOLUTION 6000 Plus TIC</th>
<th>EVOLUTION 6000 Xtreme TIC</th>
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<tbody>
<tr>
<td>HIGH DEFINITION 320X240 THERMAL IMAGING CORE</td>
<td>•</td>
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<tr>
<td>LASER POINTER</td>
<td>•</td>
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<tr>
<td>LED FLASHLIGHT*</td>
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<tr>
<td>THREE CARABINER ATTACHMENT POINTS</td>
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<tr>
<td>FIELD-REPLACEABLE GERMANIUM LENS</td>
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<tr>
<td>PATENTED DUAL-HANDLE DESIGN</td>
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<tr>
<td>SIX COLOR PALETTES</td>
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<tr>
<td>2X/4X ZOOM</td>
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<tr>
<td>COMPASS</td>
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<tr>
<td>OPTIONAL INTEGRATED VIDEO TRANSMITTER</td>
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<tr>
<td>OPTIONAL RANGE FINDER</td>
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<td>INTEGRATED PICTURE CAPTURE</td>
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</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** (6000X ONLY)  
Number of images stored, 1000 minimum  
Format – JPG

**VIDEO STORAGE** (6000X ONLY)  
Length – 4-hour minimum  
Format – MPEG 4

**ENVIRONMENTAL**  
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

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Temperature units</th>
<th>Part number</th>
<th>With range finder option</th>
<th>With video transmitter option</th>
<th>With range finder and video transmitter options</th>
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</thead>
<tbody>
<tr>
<td>EVOLUTION 6000 Basic TIC</td>
<td>Fahrenheit</td>
<td>10145938</td>
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<td></td>
<td>Celsius</td>
<td>10145939</td>
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<td>EVOLUTION 6000 Plus TIC</td>
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<tr>
<td></td>
<td>Celsius</td>
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<tr>
<td>EVOLUTION 6000 Xtreme TIC</td>
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<td>10145962</td>
<td>10145964</td>
<td>10145965</td>
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<tr>
<td></td>
<td>Celsius</td>
<td>10145962</td>
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</tbody>
</table>

**EVOLUTION 6000 CHARGING KITS**

10145750  
EVOLUTION 6000 TIC Station Kit  
(includes carrying case, 2 rechargeable batteries, multi-use charger (North America), retractable lanyard, and carabiner)

10145771  
EVOLUTION 6000 TIC Vehicle Kit  
(includes 2 rechargeable batteries, vehicle charger, retractable lanyard, and carabiner)

**VIDEO TRANSMISSION 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.

**ACCESSORIES**

10145859  
Multi-use charger (12V) kit

10148136  
Vehicle mounted charger system

10147390  
Vehicle mounting bracket

10145749  
Reflective label ID kit (includes 3 sets of reflective ID labels)

10120606-SP  
Lithium-ion battery

10145748  
Tripod adapter

10040005  
Carabiner

10127441-SP  
Plastic carrying case

10040226  
Retractable lanyard

10039515  
Shoulder strap

10039516  
Wrist strap

10148391-SP  
Protective display covers (3 per package)

For further information:

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

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