

# EVOLUTION 5800 TIC

## Superior Imagery



MSA's Evolution 5800 TIC, the newest addition to MSA's 5000 Series of Thermal Imaging Cameras, offers state-of-the-art imagery with a high-resolution-format, microbolometer-based infrared sensor.

Our new Image Detail Enhancement (IDE) software enhances the camera's imagery so that it matches the total dynamic range of the original image, and makes image detail visible to you, even in scenes with extreme-temperature dynamics. This enhanced imagery is combined with five user-selectable palettes, to give firefighters a customized image that maximizes the scene information you need for your plan of attack, even in low-temperature-contrast environments.

The heart of the Evolution 5800 TIC is the vanadium oxide microbolometer that incorporates a 320 x 240 focal plane array sensor, generating over 76,000 pixels of image detail with a 36° field of view. 2X Digital zoom magnifies the image detail that you want to see.

Two additional features in all camera models, Standard Quick Temp and Heat Seeker Plus, complete the most advanced thermal imaging package available on the market today.

The Evolution 5800 TIC incorporates all of the established user-friendly form factors in MSA's 5000 Series TICs. These features include single-button activation, patented dual-handle design for ease of handoff, a lightweight lithium ion battery with over two hours of run time, a protective battery compartment, and a comprehensive offering of interchangeable accessories.

As with all MSA TICs, the Evolution 5800 comes standard with a two-year camera core warranty and a one-year warranty on all of the other camera components.

FEATURES	BENEFITS
User Selectable Palettes	Maximizes scene information, providing greater image detail
Image Detail Enhancement	Enhances camera imagery in low contrast temperature environments
Instant On	Camera starts in 2 seconds or less
High Sense Imagery	Best high sense imagery 2 to 4 times longer than competitive cameras
320 x 240 Focal Plane Array	Increased number of pixels for improved picture quality
2X Digital Zoom	Magnifies image, providing more detail
Heat Seeker Plus	Only MSA offers color pixelization in high- and low-sense modes

### 5800 User Selectable Palette Imagery



White Hot Imagery



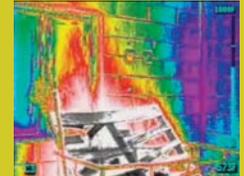
Black Hot Imagery



Fire and Ice Imagery



Fusion Imagery



Rainbow Imagery

### Specifications

<b>Detector</b>	Uncooled Microbolometer Vanadium Oxide (VOx)
<b>Array Format</b>	320 x 240
<b>Pixel Size</b>	38 µm
<b>Spectral Response</b>	7.5 to 13.5 µm
<b>Video Output</b>	NTSC
<b>Frame Rate</b>	30 Hz
<b>NEdT</b>	≤65mK (in High Sensitivity) ≤240mK (in Low Sensitivity)
<b>Time to Image</b>	< 2 sec.
<b>Scene Temp Range</b>	560°C (1040°F)
<b>Weight</b>	48.2 oz (with battery)
<b>Dimensions</b>	10.8" x 8.1" x 4.4" (HxWxD)
<b>Video Output</b>	RS-170
<b>Operating Time</b>	> 2 hours
<b>Includes</b>	Five user selectable palettes (White hot, Black hot, Fusion, Fire & Ice and Rainbow) 2X Digital Zoom

See product specification sheet for more detailed product information.

### Ordering Information

Description	Part Number	
	Fahrenheit	Celsius
Evolution 5800 complete with User selectable palettes, 2X Digital Zoom, Heat Seeker, Quick Temp and User's instruction manual	10097333	10097334

## THERMAL IMAGING KITS:

### Fire Station TIC Kit

This kit contains all of the components and accessories that a fire department needs to put their MSA Evolution Thermal Imaging Camera into service. The Fire Station Kit consists of two (2) rechargeable Lithium-Ion Batteries, Single-Unit AC Charger, Retractable Lanyard, Carabiner, Instruction CD and a hard plastic carrying case.



PN 10096887

### Vehicle TIC Kit

This kit contains all of the components and accessories that a fire department needs to install their MSA Evolution Thermal Imaging Camera into service on a fire truck. The Vehicle Kit consists of two (2) rechargeable Lithium-Ion Batteries, Universal Truck Charger, Retractable Lanyard, Carabiner, and Instruction CD.



PN10096886

## VIDEO TRANSMISSION AND RECORDING SYSTEMS

### Mini Receiver Kit

The Mini Receiver Kit enables users to customize your own video monitoring and recording setup. The kit includes a two channel receiver, multiple power cords, and additional adapters packaged in a soft-sided case, with additional room for accessories and the transmitter. Receiver kits come standard with a magnetic mounted, omni-directional antenna.



PN 10050376

### Evolution Video Transmitter

Self-contained, modular design allows for maximum flexibility to deploy the transmitter easily when needed. Requires no modification to the TIC. An independent power supply does not draw power from the TIC battery, thus allowing for maximum run time of both TIC and transmission system.



PN 10047573

### Deluxe Receiver Kit

The Deluxe Receiver Kit provides users with a complete solution for viewing transmitted images using a single receiver console. The kit features a 12" display that is integrated into the lid of the protective, Pelican case. It comes complete with an omni-directional antenna and wall-type and cigarette-lighter powered supply cords, which can use either 110-220 volt AC, 12 volt, or DC current.



PN 10050375

### Evolution Video Capture Kit

Small, easy-to-use, stand-alone video device records screen action of any Evolution 5000-Series TIC for up to 2 hours. Connects in seconds and provides downloadable video clips of fireground for recordkeeping and training.



PN 10071750

## ACCESSORIES

### Single-Unit Charger

Desktop charger that charges the Evolution Lithium-Ion batteries. Requires 110 or 22 volt AC power supply.



PN 10041100

### Non-Charging Universal Truck Bracket

A bracket used to secure the Evolution TIC in a vehicle. System does not have any charging capabilities.



PN 10067707

### Universal Truck Charger

Charges any Evolution 5000 Series TIC WITH or WITHOUT the Wireless Transmitter or the Video Capture unit attached. The "smart" Universal Charger trickle charges the battery inside the TIC first, then switches over to the spare battery charging module.



PN 10067565

### Reflective Label ID Kit

These HIGHLY REFLECTIVE Write-On Labels will make TIC accountability easier, and provide additional reflectivity on the top and sides of your Evolution 5000 Series. Each Label Kit contains five sets of four labels in bright red, orange, yellow, green and blue. Labels are easily written on with a permanent marker.



PN 10062184

### Sun shroud

PN 10039603

### Disposable display covers

PN 10038970

### Lithium ion battery

PN 10038412

### Tripod adapter

PN 10040229

### Carabiner

PN 10040005

### Plastic carrying case

PN 10040223

### Retractable Lanyard

PN 10040226

### Shoulder Strap

PN 10039515

### Wrist Strap

PN 10039516

**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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