



Evolution[®] Thermal Imaging Cameras (TIC)

[Durability, Functionality, Performance]

Take a Quantum Leap in Thermal Imaging.

Thermal imaging technology has revolutionized the fire service. Whether used in search and navigation, overhaul, or in advanced firefighting, thermal imaging has given firefighters a powerful tool to get the job done.

MSA's Evolution thermal imaging cameras provide a full array of choices to fit the specific needs of firefighters and varying budgets. All of MSA's cameras are built to be tough, functional, and offer superior performance.



Durability

MSA's TICs are built to withstand the rigors of firefighting. All Evolution TICs are housed in a unique high-impact housing and feature shock-absorbing rubber bumpers to provide drop protection from any angle and ensure outstanding durability. Each has a scratch-resistant germanium lens that will stand up to use in the fire service.

All Evolution TICs are built to withstand the temperature extremes that are inherent to firefighting. Additionally, Evolution TICs also provide outstanding protection against water intrusion, a common failure in other TICs. Furthermore, the Evolution 4000- and 5000-series have built-in protection from Radio Frequency Interference, which can wreak havoc with unprotected TICs.

Functionality

A thermal imaging camera is a tool. Evolution TICs offer excellent user functionality so that the TIC will be there when you need it without interfering with your gear and will not inhibit your other activities. Designed for superior ergonomic performance and comfort, Evolution TICs are designed for ease-of-use, handoff and balance.

A full-line of carrying attachments allows the user to choose the most functional means of incorporating the Evolution TIC with your full ensemble.

Performance

Evolution TICs deliver unmatched performance to the Fire Service. Superior image quality and advanced features such as temperature measurement, heat seeker indicators, and advanced user indicators and warnings mean that you are using one of the best performing TICs in the industry.



Evolution® 5000 TIC

The Evolution 5000 TIC is the newest member of the Evolution family. Not only is it smaller and lighter, it offers better image quality and superior durability over other “small format” TICs. The Evolution 5000 outperforms competitive small TICs with features including an advanced 160 x 120 Vanadium Oxide Microbolometer, a unique design that makes it much easier to use, an image refresh rate of 30 Hz and the ability to withstand high-heat and punishment. It’s also the only small-format TIC to offer heat seeker colorization of high-heat areas of a scene.



Evolution 5000 TIC

Evolution® 4100 TIC

The Evolution 4100 TIC combines our patented popular design with a proven high-performance vanadium oxide microbolometer sensor. Its dual-handle design and 5" display provide functionality and ease of use not found in competitive TICs. With the capacity for two batteries, the Evolution 4100 TIC allows up to 3 hours of continuous operation.

The heat seeker and digital temperature readout features provide even more valuable information to the firefighters using the camera.

A full line of accessories, such as the truck-mounted charger, are also available for the Evolution 4100 TIC.



Evolution 4100 TIC

NEW!



Enhanced digital and bar graph Quick Temp readout.

Key Features at a Glance

Features	Evolution 5000 TIC*	Evolution 4100 TIC*
Engine	Customized Microbolometer from Indigo	Customized Microbolometer from Indigo
Focal Plane Array	160 x 120	160 x 120
Display Size	3.5 Inches Diagonal	5 inches Diagonal
Operation	1-Button On/Off and Standby	1-Button On/Off and Standby
Battery Life	Up to 2 hours on single battery	Up to 3 hours with 2nd battery
Battery Change	Can Be Performed With Gloves	Can Be Performed With Gloves
Water Resistance	IP67	IP67
Quick-Temperature with digital display	Optional	Optional
Heat Seeker Indicator	Optional	Standard
Flame/Heat Resistance	Passes NFPA 1981:2002 simulated testing	Passes NFPA 1981:2002 simulated testing
Vibration Resistance	MIL-STD 810E, Category 3	MIL-STD 810E, Category 3
Power Source	Lithium Ion Pack	2 Rechargeable NiMH Batteries

* Patent Pending



WARNING

This device is not certified as intrinsically safe. Do not operate in flammable or explosive atmospheres. Failure to comply with this warning can result in serious personal injury or death.

Ordering Information

Evolution 4100 Models

Part Number	Description
10057641	Evolution 4100 TIC with Quick Temp, Heat Seeker, Transmitter, Standard Charger
10057642	Evolution 4100 TIC with Quick Temp, Heat Seeker, Standard Charger
10057643	Evolution 4100 TIC with Quick Temp, Heat Seeker, Transmitter, Truck Charger
10057609	Evolution 4100 TIC with Heat Seeker, Transmitter, Truck Charger
10057610	Evolution 4100 TIC with Heat Seeker, Standard Charger
10057701	Evolution 4100 TIC with Truck Charger
10057702	Evolution 4100 TIC with Heat Seeker, Quick Temp, Truck Charger
10057703	Evolution 4100 TIC with Heat Seeker, Transmitter
10057704	Demo Unit: Evolution 4100 TIC with all Accessories
10057719	Evolution 4100 TIC with Quick Temp Celsius, Heat Seeker, Transmitter, Standard Charger

Part Numbered configurations with a truck charger include a wrist strap.

Part Numbered configurations with a standard charger include carrying case, shoulder strap and reflective trim kit.

Use the Assemble-To-Order (ATO) Configurator to order customized configurations.

Evolution 5000 Models

Part Number	Description
10040961	Evolution 5000 TIC with desktop charger, Quick-Temp °F, Heat Seeker, 2 batteries, wrist strap, carrying case and reflective trim kit
10040960	Evolution 5000 TIC with truck-mounted charger, Quick-Temp °F, Heat Seeker, 2 batteries and wrist strap
10040939	Evolution 5000 TIC with desktop charger, Quick-Temp °F, Heat Seeker, 2 batteries, Retractable Lanyard, carrying case and reflective trim kit
10040938	Evolution 5000 TIC with truck-mounted charger, Quick-Temp °F, Heat Seeker, 2 batteries, and Retractable Lanyard
10040937	Evolution 5000 TIC with desktop charger, Quick-Temp °F, Heat Seeker, 2 batteries, shoulder strap, carrying case and reflective trim kit
10040936	Evolution 5000 TIC with desktop charger, 2 batteries and carrying case
10040935	Evolution 5000 TIC with truck-mounted charger, 2 batteries and carrying case
10040933	Evolution 5000 TIC with desktop charger, Quick-Temp °C, Heat Seeker, 2 batteries, wrist strap, carrying case and reflective trim kit
10040962	Evolution 5000 TIC with desktop charger and one battery

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.



ID 3400-01-MC / Oct 2004
© MSA 2004. Printed in U.S.A.

Corporate Headquarters
P.O. Box 426, Pittsburgh, PA 15230 USA
Phone 412-967-3000
www.MSAFire.com

U.S. Customer Service Center
Phone 1-877-MSA-FIRE
Fax 1-800-967-0398

MSA Canada
Phone 800-MSA-2222
Fax 905-238-4151

MSA Mexico
Phone 52-55 21 22 5770
Fax 52-55 5359 4330

MSA International
Phone 412-967-3354
Fax 412-967-3451

Offices and representatives worldwide
For further information:

