

# Evolution<sup>®</sup> 5200 Thermal Imaging Camera

Product Information



*Because every life has a **purpose...***

# Evolution 5200 TIC

The Evolution 5200 TIC is the choice of hundreds of fire departments for structural firefighting applications in the US and globally. As MSA's first TIC to use the Photon VOx (vanadium oxide) microbolometer infrared sensor, the Evolution 5200 TIC incorporates a 160X120 focal plane array, generating over 19,000 pixels of image detail in both Low and High Sense modes.

- Large 49° field of view provides firefighters with information needed to make fast and safe decisions about their plan of attack.
- As with all MSA TICs, the Evolution 5200 TIC comes standard with two-year camera core warranty and one-year warranty on all other camera components.

**The Evolution 5200 TIC incorporates these user-friendly form factors:**

- Single-button activation
- Patented dual-handle design for easy handoff
- Lightweight lithium-ion battery with more than two hours run time
- Protective battery compartment
- Many interchangeable accessories

**Features**

Instant power on  
 160X120 focal plane array  
 Heat Seeker Plus  
 Quick Temp  
 High-sense Imagery

**Benefits**

Camera starts in two seconds or less  
 High resolution imagery with 19,000 pixel power  
 Identifies hottest objects in both High and Low Sense modes  
 Numerical temperature readout at scene  
 Best-in-class imagery, two to four times longer than competitive cameras



Evolution 5200 TIC in High Sense mode



Evolution 5200 TIC in Low Sense mode

## Specifications

<b>DETECTOR</b>	Uncooled microbolometer vanadium oxide (VOx)
<b>ARRAY FORMAT</b>	160X120
<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>	40mK (nominal)
<b>NEdT</b>	≤ 65mK (in High Sensitivity) ≤ 300mK (in Low Sensitivity)
<b>TIME TO IMAGE</b>	< 2 seconds
<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

## Ordering Information

Evolution 5200 TIC complete with Heat Seeker, Quick Temp, user's instruction manual.	Part Number	
	Fahrenheit	Celsius
	10097245	10097246

## Thermal Imaging Camera Kits

### Fire Station TIC Kit P/N 10096887

Contains all components and accessories needed to put Evolution TIC into service.

- Two rechargeable lithium-ion batteries
- Single-unit AC charger
- Retractable lanyard
- Carabiner
- Instructional CD
- Hard plastic carrying case



### Vehicle TIC Kit P/N 10096886

Contains all components and accessories needed for Evolution TIC fire truck installation.

- Two rechargeable lithium-ion batteries
- Universal Truck Charger
- Retractable lanyard
- Carabiner
- Instructional CD
- Hard plastic carrying case



## Video Transmission and Recording Systems

### Mini Receiver Kit P/N 10050376

Provides customization of video monitoring and recording setup.

- Two-channel receiver
- Multiple power cords
- Additional adapters packaged in soft-sided case
- Additional room for accessories and transmitter
- Magnetic-mounted, omni-directional antenna standard



### Deluxe Receiver Kit P/N 10050375

Provides complete solutions for viewing transmitted images using single receiver console.

- 12" display integrated into protective Pelican case lid
- Omni-directional antenna, wall-type and cigarette-lighter powered supply cords that can use 110-220 volt AC, 12 volt or DC current



### Evolution Video Transmitter P/N 10047573

Self-contained, modular design for maximum flexibility of transmitter deployment.

- Requires no TIC modification
- Independent power supply does not draw power from TIC battery, allows for maximum run time of both TIC and transmission system.



### Evolution Video Capture Kit P/N 10071750

Small, easy-to-use, stand-alone video device records screen action of any Evolution 5000 Series TIC for up to two hours.

- Connects in seconds
- Provides downloadable fireground video clips for recordkeeping and training



## Accessories

### Single-unit Charger

**P/N 10041100**

- Desktop charger for Evolution TIC lithium-ion batteries
- Requires 110 or 22 volt AC power supply



### Universal Truck Charger

**P/N 10067565**

- Charges any Evolution 5000 Series TIC with or without wireless transmitter or video capture unit attached
- Smart universal charger trickle charges battery inside TIC first, then switches to spare battery charging module



### Non-charging Universal Truck Bracket

**P/N 10067707**

- Bracket secures Evolution TIC within vehicle
- System does not have charging capabilities



### Reflective Label ID Kit

**P/N 10062184**

Highly reflective write-on labels enable easier TIC accountability, providing additional reflectivity on Evolution 5000 Series top and sides.

- Each kit contains five sets of four labels in bright red, orange, yellow, green, and blue
- Labels are easily written using permanent marker



Description	P/N	Description	P/N
Sun shroud	10039603	Plastic carrying case	10040223
Disposable display covers	10038970	Retractable lanyard	10040226
Lithium-ion battery	10038412	Shoulder strap	10039515
Tripod adapter	10040229	Wrist strap	10039516
Carabiner	10040005		

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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