

Thermal Imaging “Scorecard”

Fire Department TIC Evaluation

Fire Department

Address

Date

Completed By

	MSA Evolution® TIC	Other #1	Other #2	Other #3
Camera Engine and Functionality				
Does the camera feature color pixelization in both the High Sense and Low-Sense modes?	YES			
Does the camera display temperature in a graph format for quick reference and a numerical format?	YES Available in Fahrenheit and Celsius.			
Does the camera switch from High Sense to the Low Sense mode above 300°F?	YES All Evolution Cameras switch at 320°F.			
Can the camera withstand 15% or greater pixel saturation before switching from the High Sense to Low Sense mode?	YES Evolution 5200 and 5600 TICs switches at 15% pixel saturation. Evolution 5200HD ² and Evolution 5800 switch at 32% pixel saturation.			
When the camera switches to Low Sense mode, does it become difficult to see the surrounding environment beyond the source of the heat?	NO The user can still see the surrounding environment information with ease.			
Is the camera’s engine a Vanadium Oxide Microbolometer?	YES			
Does the TIC feature one button operation?	YES			
Is the camera available with three different engines featuring the same user interfaces to facilitate training and optimize the camera selection for the chosen application?	YES E5200 is 160 x 120. E5200HD ² and E5800 is 320 x 240. E5600 is 120 x 120. All cameras operate in the same way.			
Does the camera offer User Selectable Palettes designed to improve image contrast in low contrast applications?	YES Evolution 5800 offers (5) five User Selectable Image Palettes. White Hot, Black Hot and 3 color			
Ergonomics				
Does the TIC use a single button to either place the camera in a Standby Mode or activate the Zoom Feature and turn the camera off and on?	YES			
Does the camera display an image in two seconds or less when the camera’s power button is depressed?	YES			
Does the camera feature a balanced design where the weight is distributed to minimize strain and fatigue?	YES The Evolution series of TICs feature a patented design that optimizes the user interfaces.			
Does the camera feature an integrated dual handle design that allows the user to handoff the camera to another user, even with a gloved hand?	YES This is an MSA patented design.			
Does the camera feature a mechanical means of attaching it to the firefighter, allowing the cameras use without having to be un-tethered?	YES A retractable lanyard is available.			

Durability

Has the camera been tested to and meets FCC Part 15 Radio Frequency Interference standards?	YES All Evolution models meet and exceed this requirement.			
Does the camera meet the NFPA 1981 Direct Flame and Heat Exposure tests?	YES All Evolution models meet and exceed this requirement.			
Has the camera been tested to and meets IP67 for water and dust ingress?	YES All Evolution models meet and exceed this requirement.			
Has the camera undergone vibration testing to MIL-STD-810E Category 1 Loose Cargo Transport?	YES All Evolution models meet and exceed this requirement.			
Does the camera meet the NFPA 1901-12 test for vehicle rollover?	YES All Evolution models meet and exceed this requirement.			
Has the camera been dropped from a height of six feet, three consecutive times at any angle with no operational defects or physical damage to the camera's housing?	YES All Evolution models meet and exceed this test.			
Is the camera's battery protected from heat exposure? Is the battery integral to the camera housing?	YES The Lithium Ion battery is contained in the camera's handle.			

Accessories

Does the manufacturer offer a wireless video transmitter that has its own independent battery?	YES The MSA Video Transmitter uses its own battery that is the same as the camera's battery.			
Does the manufacturer offer a selection of video receivers?	YES MSA offers two models of video receiver, a deluxe self-contained system and a mini system.			
Does the manufacturer offer a Video Capture system that records the video image being generated by the camera?	YES MSA's Video Capture System records up to 2 hours of video in 5-minute independent files.			
Does the manufacturer offer a selection of camera retention systems?	YES The Evolution Series of retention systems includes a shoulder strap, wrist strap and retractable lanyard.			
Does the manufacturer offer a tripod adapter?	YES			
Is a cover lens available designed to protect the camera's primary display lens?	YES Clear lens for firefighting applications and red for Law Enforcement Applications.			

Warranty

Does the camera manufacturer offer a standard two year warranty on the camera's engine and one year on all of the other camera components?	YES			
Does the camera manufacturer offer an optional warranty extension program that extends the standard warranty by a minimum of one year?	YES			

Overall TIC Selection

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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