

## Keii MC-1 Imaging Payload

Advanced thermal imaging with per pixel accurate temperature measurements

The **Keii MC-1 Imaging Payload** provides the on-scene intelligence needed to assess the situation quickly and keep emergency response teams at a safe distance until action is required. The advanced radiometric temperature data from the MC-1 payload enables the pilot to see the objects (in the field of view) that are hotter than other objects, as well as identify the hottest temperature on scene during flight.

This advanced infrared (IR) payload seamlessly integrates with the **Aeryon SkyRanger™** to capture accurate temperature measurements in both, still images and recorded video. Leveraging the 3-axis stabilized gimbal of the Aeryon HDZoom30, the MC-1 also offers stable pointing accuracy to keep eyes on target.

For first responders and tactical teams, high quality aerial imagery and data can provide the on-scene intelligence needed to assess the situation quickly, keep response teams at a safe distance until action is required, and ensure that all the evidence is collected with detail and accuracy. Secure, all-digital networking capabilities enable intelligence to be captured and assessed immediately onsite to determine the most appropriate action to take.

Fire response teams can use temperature measurement data to identify and prioritize the most critical areas within of the fire or disaster zone, including areas that might appear extinguished to the naked eye, but still continue to burn.

Tactical teams can determine the risk and/or threat of a firearm by determining whether the barrel of a gun is hotter than the body or see where a person is located based on their heat signature compared to their surroundings.

The Keii MC-1 payload is ideal for tactical teams and first responders in the following departments:

 Disaster Response	 Search & Rescue
 Fire Response and Management	 Tactical Response

For information about Aeryon sUAS solutions, contact your Aeryon Sales Representative:

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# KEII MC-1 IMAGING PAYLOAD

## TECHNICAL SPECIFICATIONS\*:

### CAMERA FEATURES:

- **Resolution:** 640 x 480
- **Digital zoom:** 4x
- **Refresh rate:** 9Hz
- **Focus:** Manual
- **Spectral range:** 7-14  $\mu$ m
- **Temperature reading:** per pixel accuracy
- **Palette:** Color and monochrome

### Operating temperature:

- 14°F to 122°F (-10°C to +50°C)

### Storage Temperature Range:

- -40°F to +158°F (-40°C to +70°C)

### GIMBAL FEATURES:

- 3-axis stabilization
- **Range of motion:**  
 Roll: +/- 20 degrees  
 Pitch: +20 to -120 degrees  
 Yaw: +/- 20 degrees

\*Technical specifications and design subject to change without notice.

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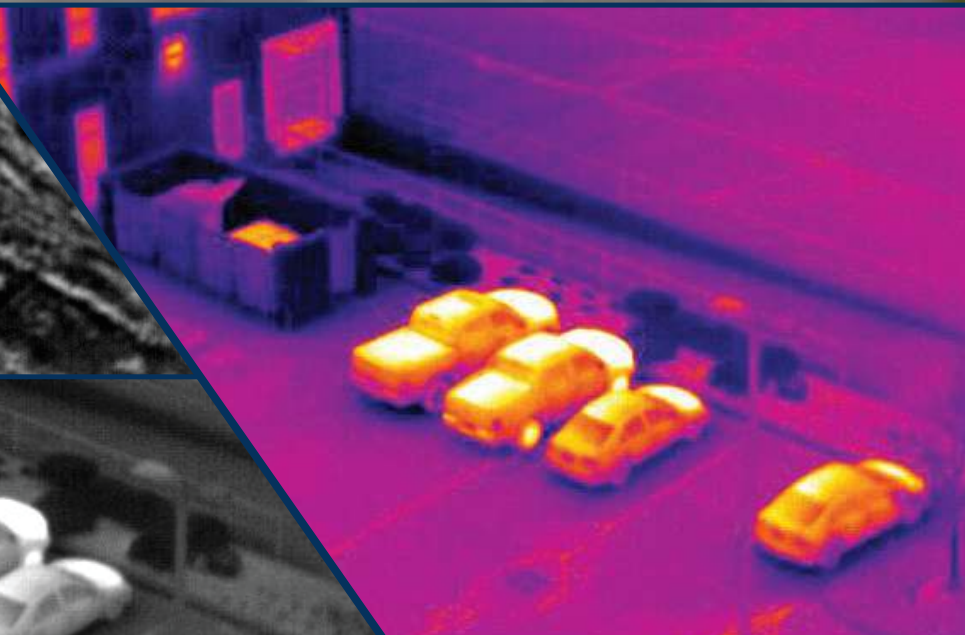
Keii MC-1 Thermal Imaging Payload



Tactical ISR



White-hot IR imagery



Situational awareness and planning

