Keii MC-1 Imaging Payload

Advanced thermal imaging with per pixel accurate temperature measurements

The **Keii MC-1 Imaging Payload** enables you to capture detailed, infrared (IR) images at a safe distance from structures and buildings – reducing time in the field and improving inspection processes & results. 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 the temperature differences between the objects - with pixel accuracy.

For commercial and industrial users, Aeryon small Unmanned Aerial Systems (sUAS), provide a faster, cheaper, safer, and more accurate means of collecting aerial imagery than conventional alternatives including satellites, planes or helicopters. As a Vertical Take-Off and Landing (VTOL) aerial vehicle, Aeryon sUAS can operate lower and slower than manned aircraft, and fly in confined areas or environments where fixed-wing UAS or ground personnel cannot reach safely. Aeryon sUAS can fly pre-planned, repeatable flight paths that ensure the consistent monitoring and inspecting of infrastructure and facilities are easily achieved and maintained.

The Keii MC-1 Imaging 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.

This camera payload is designed for monitoring and inspecting structures, buildings and surrounding environments that are typically located in hard-to-reach and hazardous locations, and where crew safety is a priority. The pixel accuracy helps determine which components are operating within normal parameters, or in need of repair or replacement. During flight, the inspector/pilot is also able to determine the spot meter temperature of the highest temperature within the field of view of the camera.

The Keii MC-1 payload is ideal for Aeryon SkyRanger operators that inspect and maintain:

Buildings, roofs & support structures	Power lines and towers
Cell and radio towers	Pipelines

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

Call +1-519-489-6726 ext: 320 or email sales@aeryon.com
www.aeryon.com | @aeryonlabs

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 µm
- **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.

Aeryon Labs Inc.

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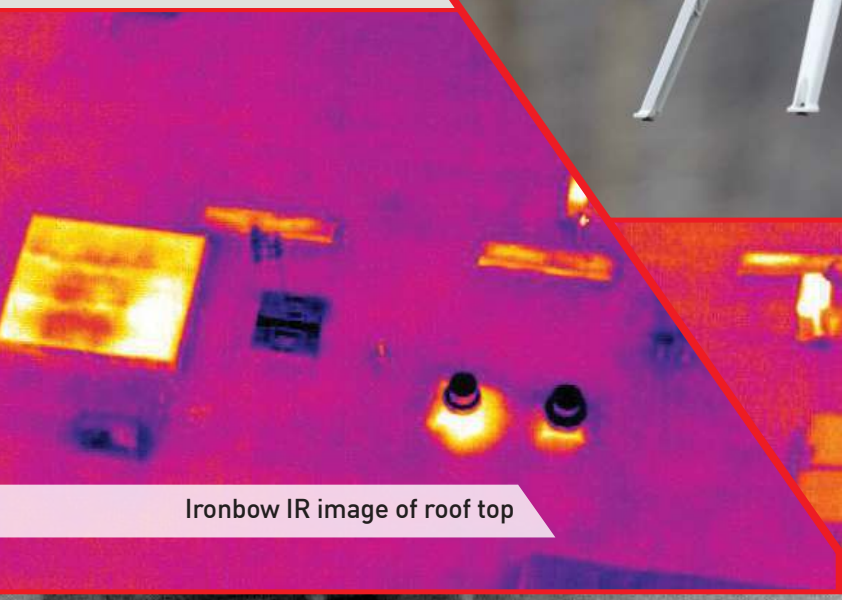
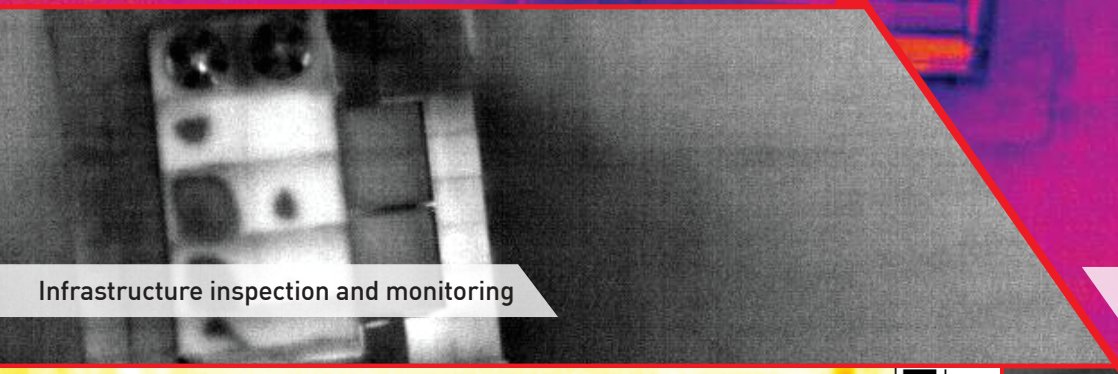
www.aeryon.com

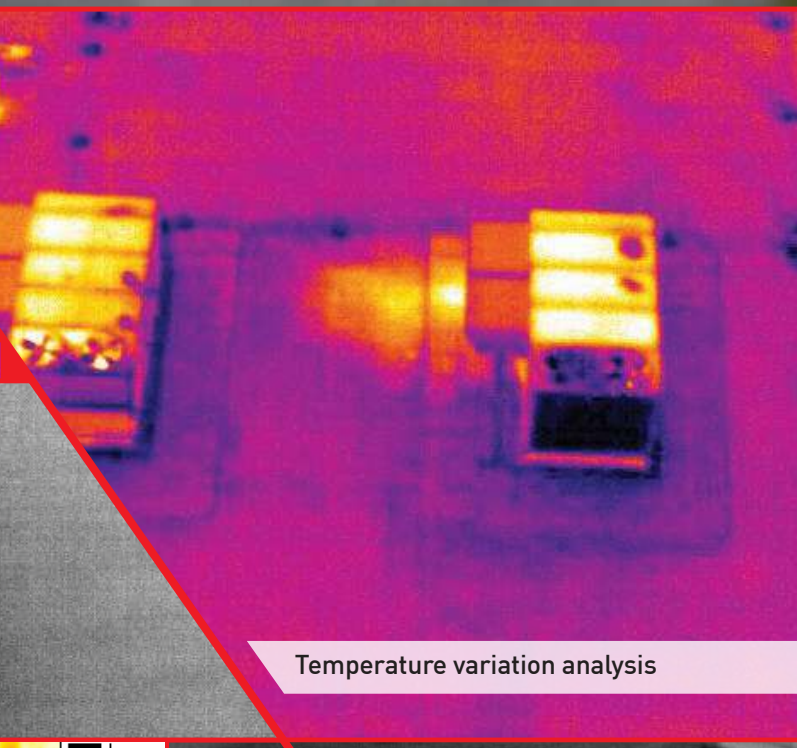
Keii MC-1 Thermal Imaging Payload



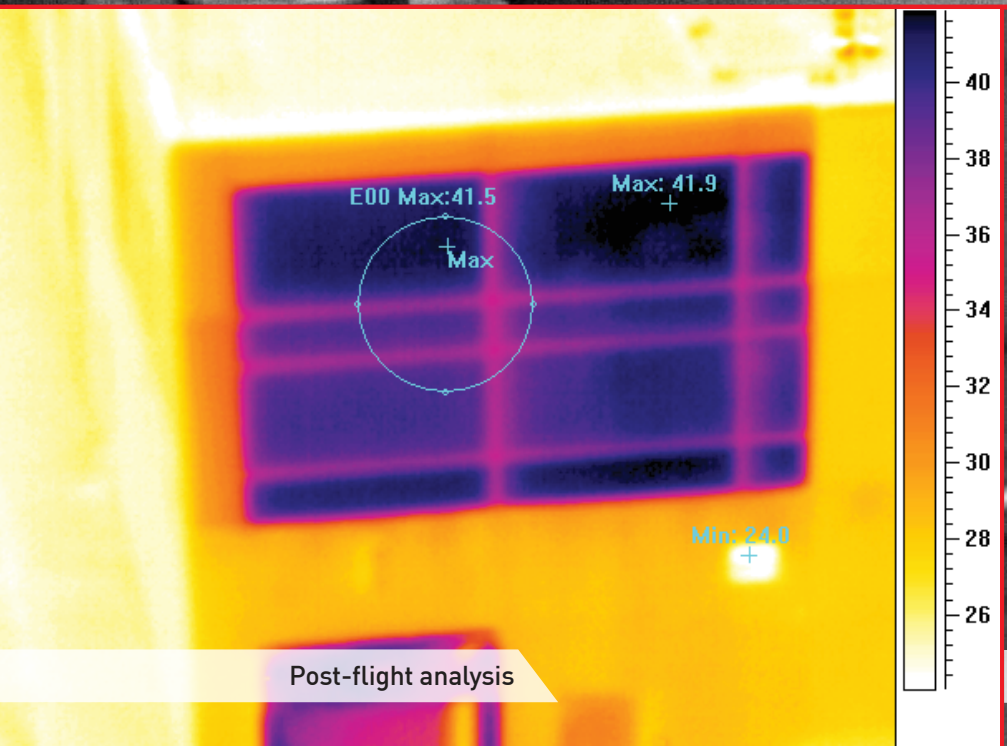
Ironbow IR image of roof top



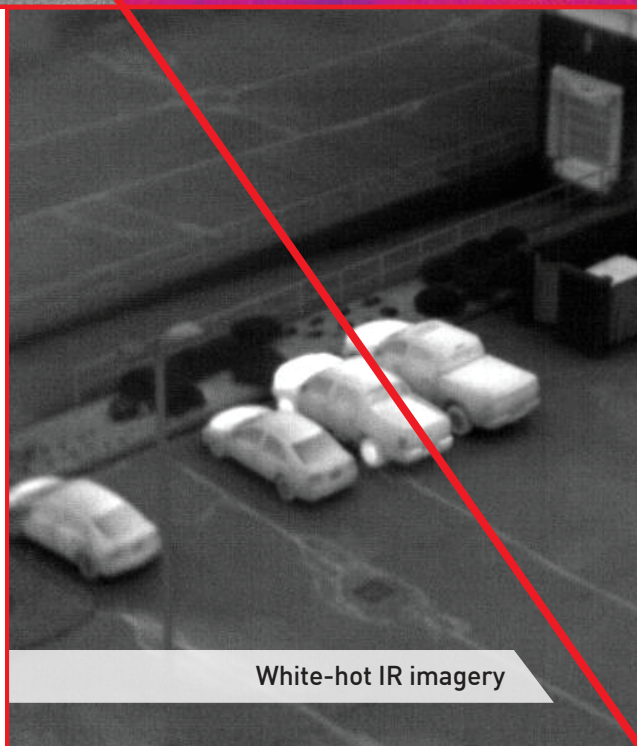
Infrastructure inspection and monitoring



Temperature variation analysis



Post-flight analysis



White-hot IR imagery