Aeryon HDZoom30 Imaging Payload
High resolution aerial images and video with the detail you need

The Aeryon HDZoom30 Imaging Payload lets you target and capture the high resolution detailed images and HD video that you need to monitor & inspect your infrastructure and facilities.

For commercial and industrial users, Aeryon small Unmanned Aerial Systems (sUAS), provide a faster, cheaper, safer, and more accurate method 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 fly pre-planned, repeatable flight paths that ensure the consistent monitoring and inspecting of infrastructure and facilities are easily achieved and maintained.

The Aeryon HDZoom30 Imaging Payload seamlessly integrates with the Aeryon SkyRanger™ to capture stabilized high resolution, high quality, images and HD recorded video. The large-aperture, 30x optical zoom lens and imaging engine ensure high-quality images that offer the detail and accuracy needed to monitor and assess any structure - within minutes and from a distance. Optional onboard image processing capabilities provide the automatic identification and tracking of moving targets. Pilots can also maintain a fixed hold on stationary objects while the aircraft is repositioned.

The optional Vector™ embedded computing platform employs advanced video processing algorithms to optimize target identification and acquisition. The tracking algorithm adapts in real-time to changes in target shape and maintains a hold on the target even when its position changes or another object obstructs the view. Initial applications deployed on the Vector-enabled HDZoom30 imaging payload include:

- **Target Tracker**: Automatically holds a stationary or moving target centrally in the camera’s field of view (FoV) by repositioning the gimbal and aircraft
- **Moving Target Indicator (MTI)**: Automatically annotates up to 10 moving objects within the camera’s FoV
- **Digital Image Stabilization (DIS)**: onboard video stabilization

The Vector-enabled version of the HDZoom30 automates the ability to target a component of critical infrastructure and zoom-in to highlight areas for repair, etc. – improving pilot productivity and image capture accuracy by removing the need for manual adjustments.

Designed for monitoring and inspecting structures and facilities that are typically located in hard-to-reach, hazardous locations and where inspection crew safety is a priority, this Aeryon sUAS solution is ideal for organizations that operate and maintain:

- Buildings, roofs & support structures
- Power lines and towers
- Cellphone and radio towers
- Pipelines
- Flarestacks
- And more

For information about Aeryon sUAS solutions, contact your Aeryon Sales Representatives:
Call +1-519-489-6726 ext: 320 or email sales@aeryon.com
www.aeryon.com | @aeryonlabs

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HDZOOM30 IMAGING PAYLOAD

TECHNICAL SPECIFICATIONS¹:

CAMERA FEATURES:
- **Image capture**:
  - Stills: 20 megapixels
  - Optical zoom: 30x
  - Enhanced digital zoom: 60x
  - File format: JPEG
  - Field of view:
    - 68.6 deg to 2.6 deg (30x), 1.3 deg (60x)
- **Video**:
  - Resolution: 1080p60 H.264 HD recorded
  - HD streamed to Mission Control Station (MCS)
  - STANAG 4609 metadata
- **Removable memory**: SDHC, SDXC
- **Weight**: 24 oz (670 g)
- **Operating temperature**: -4°F to 122°F (-20°C to 50°C)²
- **Ruggedized and weather-sealed**: IP-53 compliant

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

MINIMUM SYSTEM REQUIREMENTS (VECTOR):
- Aeryon Mission Control Station (MCS) software version 3.6.0+
- Vector-enabled Aeryon HDZoom30 Imaging Payload

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¹ - Technical specifications and design subject to change without notice.
² - Vector-enabled HDZoom30 may have reduced upper operating temperature.
Vector-enabled HDZoom30 keeps target centered in the camera’s field of view.

Close inspection of critical infrastructure.

Enhance maintenance & reliability programs.

30x optical zoom at 65 ft (20 m).

See serial numbers at 100 ft (30 m).

Improve safety, processes & results.

www.aeryon.com