



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

¹ - Technical specifications and design subject to change without notice.

² - Vector-enabled HDZoom30 may have reduced upper operating temperature.

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Vector-enabled HDZoom30 keeps target centered in the camera's field of view

Close inspection of critical infrastructure

30x optical zoom at 65 ft (20 m)

Enhance maintenance & reliability programs

See serial numbers at 100 ft. (30 m)

Improve safety, processes & results