



Aeryon HDZoom30 Imaging Payload

High resolution aerial images and video with the detail you need

The **Aeryon HDZoom30 imaging** payload improves operational effectiveness and lets you see your target from a greater distance with precision and clarity.

For first responders, surveillance teams and investigators, 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.

High resolution aerial imagery from Aeryon sUAS integrates with traditional photogrammetry software to provide accurate, detailed information and long-lasting evidence. Advanced optics combined with secure, all-digital networking capabilities enables intelligence to be captured instantly onsite and assessed to determine the most appropriate action to take. 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 **Aeryon HDZoom30 payload** seamlessly integrates with the Aeryon SkyRanger™ to capture stabilized high resolution, high quality, images and HD recorded video. The large-aperture, 30x optical (60x enhanced digital) zoom lens and next-generation imaging engine ensure the images are precise and provide the clarity needed to monitor and assess any situation – within minutes and from a distance.

For example, SkyRanger operators can read a license plate number from a distance of over 1000 ft. (300 m).

The optional **Vector™ embedded computing** platform employs advanced video processing algorithms to maximize operator efficiency and 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

Designed to capture clear, precise images and video, the Aeryon HDZoom30 payload is ideal for tactical teams and first responders in the following departments:

Crime Prevention	Investigations
Emergency Response	Tactical Response
Intelligence	Traffic Safety

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

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Aeryon
labs inc.

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.



Vector-enabled HDZoom30 automatically highlights moving targets



Ensure evidence provides detail & accuracy



Keep response teams at a safe distance



30x optical zoom at 1000 ft (300 m)



Maintain stationary or moving targets in center of camera view



Monitor and assess any situation