Aero Systems West[™]

Unmanned Aerial **Systems**

Industrial Drones & Payloads



Aero **Systems** West[™]

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Organizational Member



Building the world's safest drone. Realizing the KAYAKU Spirit

Our vision is a future where the usability, reliability, and safety of small unmanned aircraft allow them to become a value-added part of everyday operations.

Aero Systems West was founded in 2015 by a team of private flight school owners, collegiate aviation professors, human factors engineers, mechanical engineers, and unmanned systems engineers with UAS experience in both government and civilian sectors.

The team at ASW has extensive experience providing complex unmanned systems to civil and government customers. We can provide expert solutions to meet your requirements. Our services include full systems engineering support, OEM design, integration, payload design, software design, and custom builds.

Payloads ranging from precision agriculture sensors to counter-UAS and package delivery systems have been integrated with our aircraft. Common payloads can be integrated with an off-the-shelf payload tray. For unique

- payloads, our experienced team can design a bolt-on interface tailored to your mission. Our aircraft are designed to work with nearly any payload—whether it exists today or will be released years from now.
 - In July of 2021, Aero Systems West, Inc. was acquired by Nippon Kayaku Company. This acquisition further advanced our commitment to enabling UAS flight safety. Nippon Kayaku Company has contributed to UAS safety through the development of high reliability fast deploying parachute safety devices. Through this acquisition, Nippon Kayaku Company and ASW have unified their visions and goals to deliver "Safety as a Standard."
- With the support of Nippon Kayaku
 Company, ASW will work towards
 becoming the global leader in offering
 industrial grade drones with safety system
 integration as a standard feature. Our
 mission is to introduce a wide array of
 safety technologies for use over land and
 water to move the industry forward, taking
 our clients' visions and turning them into
 their realities. "We are Safety", protecting
 people, property, & payload is our priority.



ILM Quadcopter supports small camera payloads (fixed or gimballed) and surveying of small to medium areas.

Want more information about the ready to fly ILM Quadcopter?

Visit aerosystemswest.com

Learn more about our the PARASAFE[™] ™ safety parachute device at parasafe.us



Quick Specs

Number of Motors: 4

Total Diameter: 1158 mm

Max Endurance: 43+ minutes

Total Height: User Adjustable

Ground Clearance: User Adjustable

Avionics: Ships w/ CubePilot • GNSS (RTK Ready)

Typical Payload Range: 0 - 5+ kg

Typical Takeoff Weight: 7 - 12 kg

Aero Systems West[™]

ILM Quadcopter Capacity: up to 11 lbs

Designed to handle the rigors of real-world field work while continuing to perform flawlessly mission after mission.

The Intermediate Lift Multirotor (ILM) is an in a single, luggage-sized Pelican[™] brand case. Dollar for dollar, the ILM meets industrial grade quadcopter that ships or exceeds the capabilities of other and packs easily while supporting various competitors in its size class for portability, payloads. The smallest in ASW's family of multirotors, this features the same performance, and endurance. modularity and ease of maintenance In 2023, our ILM Quadcopter systems will for which our larger options are already come with a 15kg PARASAFE™ ™ Parachute known. Made in the US from aircraft-grade Safety Device as a "Standard Feature." carbon fiber and aluminum. Built with



NDAA compliant models available

modular, serviceable, plug-and-play arms and high accessibility frame components to allow for easy servicing. The ILM can deliver a lifetime of industrial use with proper maintenance. The entire ILM system is highly portable; airframe, battery, and controller can be stored and transported in a single, luggage-sized Pelican[™] brand case. Dollar for dollar, the ILM meets or exceeds the capabilities of other competitors in its size class for portability, performance, and endurance.





HLM Quadcopter supports a variety of payload possibilities. Ideal for medium to large cameras (fixed or gimballed), medium weight multispectral or lidar packages, surveying medium to large areas, and small granule spreaders. HLM Quad also supports missions requiring a small number of on-board peripherals (computers, sensors, etc.).

Want more information about the HLM Quad and custom payload integration?

Visit www.aerosystemswest.com

Learn more about our the PARASAFE™ safety parachute device at parasafe.us

Quick Specs

Number of Motors: 4

Total Diameter: 1505 mm

Max Endurance: 50+ minutes

Total Height: 607 mm

Ground Clearance: 430 mm

Avionics: Modular Tray • Ships w/ CubePilot System • Redundant GNSS (RTK ready)

Typical Payload Range: 0 - 11+ kg

Typical Takeoff Weight: 16 - 32 kg

Aero Systems West[™] **HLM Quadcopter** Capacity: up to 24 lbs

A space-efficient entry into large class drones built with logistics in mind to accommodate the widest possible array of missions.

Capable of lifting up to 31 lbs (depending on configuration), the HLM has the highest payload capacity on the market compared to other options in the same size class. The HLM offers an operational up-time unsurpassed by other drones on the market. Equipped with the industry standard ArduCopter flight stack and programmed to support fully autonomous



NDAA compliant models available

- missions, including takeoff and landing. Capable of flights nearing 1 hour, the HLM delivers flight times needed to complete truly industrial missions. The
- HLM Quadcopter uses top-mounted batteries and arm-mounted landing gear,
- leaving an amazing 620 square inches of unhindered payload space. The HLM truly is the pickup truck of drones. With custom payload mounts available from ASW, there is nothing you can't carry.

In 2023, our HLM Quadcopter systems will come with a 25kg PARASAFE[™] Parachute Safety Device as a "Standard Feature".





HLM Hexacopter supports a wide variety of payload possibilities. Small to medium packages/parcel delivery, large camera arrangements and large gimbals requiring extra clearance are typical payload integrations for HLM Hex. Ideal for missions requiring a medium number of additional on-board peripherals (computers, sensors, etc.). HLM Hex also supports high weight multispectral or lidar packages, liquid sprayers (limited volume, granule sprayers (medium to large), and offers a high level of redundancy for missions that require enhanced stability.

Learn more at www.aerosystemswest.com

Quick Specs

Number of Motors: 6

Total Diameter: 1658 mm

Max Endurance: 55+ minutes

Total Height: 607 mm

Ground Clearance: 430 mm

Avionics: Modular Tray • Ships with CubePilot System • Redundant GNSS (RTK ready)

Typical Payload Range: 0 - 20+ kg

Typical Takeoff Weight: 24 - 45 kg

Aero Systems West[™] HLM Hexacopter Capacity: up to 44 lbs

Representing the pinnacle of industry, consider the HLM Hex for important missions requiring enhanced stability.

Payloads ranging from precision Capable of lifting up to 56 lbs (depending agriculture sensors to counter-UAS and on configuration), the HLM has the package delivery systems have been highest payload capacity on the market integrated with our aircraft. Common compared to other options in the same payloads can be integrated with an size class. With redundancy on multiple off-the-shelf payload tray. For unique subsystems and factory maintenance payloads, our experienced team can plans available, the HLM offers an design a bolt-on interface tailored to your operational up-time unsurpassed by other mission.



NDAA compliant models available

drones on the market. The HLM Hex is capable of flights nearing 1 hour, delivering flight times needed to complete truly industrial missions and payloads.





HLM Octocopter supports the greatest variety of payload possibilities. Large packages/parcel delivery, extra large camera arrangements (multiple), and surveying of large areas are typical payload integrations for HLM Octo. Ideal for missions requiring a high number of additional on-board peripherals (computers, sensors, etc.), especially those with high power demands. HLM Octo also supports high weight multispectral or lidar packages, liquid sprayers, granule sprayers (large to extra large), and offers the highest level of redundancy for missions that require ultimate stability.

Learn more at www.aerosystemswest.com

Quick Specs

Number of Motors: 8

Total Diameter: 2107 mm

Max Endurance: 50+ minutes

Total Height: 607 mm

Ground Clearance: 430 mm

Avionics: Modular Tray • Ships with CubePilot System • Redundant GNSS (RTK ready)

Typical Payload Range: 0-30+ kg

Typical Takeoff Weight: 43-72 kg

Aero Systems West[™] HLM Octocopter Capacity: up to 66 lbs

Consider the HLM Octocopter for highly specialized missions, larger payloads, multiple cameras or extra on-board peripherals.

As the largest and **most powerful** industrial unmanned aircraft that ASW produces, the HLM Octocopter delivers the highest performance value. Equipped with the industry standard ArduCopter flight stack and programmed to support fully autonomous missions, including takeoff and landing. The HLM uses modular mounts for drive train, avionics and payload. This allows customers to



NDAA compliant models available

configure each aircraft to suit their own
 needs if the default arrangement is not
 right for them.

Capable of lifting up to 84 lbs (depending on configuration), the HLM has the highest payload capacity on the market compared to other options in the same size class. Built with modular, serviceable, plug-and-play arms and high accessibility frame components to allow for easy maintenance. This HLM can deliver a lifetime of industrial use with proper care. The capabilities of other competitors in its size class for portability, performance, and endurance.

