

Empowering You with Advanced Autonomy Solutions

OMEGA™

Open Modular Environment for General Autonomy

Open Modular Architecture

Adapt OMEGA to suit your unique needs and applications. With its interchangeable components and expandable functionalities, customization has never been easier.

Open Software Architecture

OMEGA's open architecture enables advanced navigation applications for precise and autonomous flight, allowing you to focus on your objective.

Powerful Compute Module

OMEGA incorporates industry-leading embedded compute platforms, delivering exceptional processing power and computing capabilities.

Unbeatable Connectivity

Stay connected and in control with the optional Rajant Mesh network integration. OMEGA ensures reliable and seamless communication, enabling mission-critical operations in even the most challenging environments.

Superior Sensor

OMEGA is equipped with cutting-edge Ouster OS Lidar technology, providing precise and comprehensive environment perception. Experience enhanced situational awareness and obstacle avoidance for safe and efficient autonomous flights.



SYSTEM SPECIFICATIONS

Unlock the limitless possibilities of open autonomy with OMEGA by UVify. With its state-of-the-art open modular design, advanced technology, and intelligent navigation capabilities, OMEGA gives you the power to take autonomous drone technology to new heights. OMEGA empowers you to redefine what's possible. Contact UVify today to learn more about OMEGA and how it can transform your operations. Discover the power of open autonomy with OMEGA. Unlock endless possibilities and redefine what's possible with OMEGA.

PLATFORM

Dimensions (LxWxH)	419 x 449 x 253 mm
Weight (battery excluded)	2,850 g
Operating frequency	2.4 GHz, 5.8 GHz (Channel will vary by country) Sub 1 GHz (Country-specific frequency)
Hovering accuracy	±0.1 (with SLAM or RTK)
Max horizontal speed	10 m/s
Max ascent speed	6 m/s
Max descent speed	5 m/s

BATTERY

Capacity	10,000 mAh
Voltage	22.2 V
Battery type	Li-Ion 6S
Net weight	900 g
Operating temperature	0° to 50°C
Optimal storage temperature	22° to 30°C

GNSS (RTK)

Receiver type	184-channel u-blox F9 engine GPS L1C/A L2C, GLO L10F L20F, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L1S L2C, SBAS L1C/A
Position accuracy	(RTK) 0.01 m + 1 ppm CEP
GNSS	GPS + QZSS / SBAS, GLONASS, Galileo, Beidou
Number of concurrent GNSS	4
Moving baseline RTK	Supported

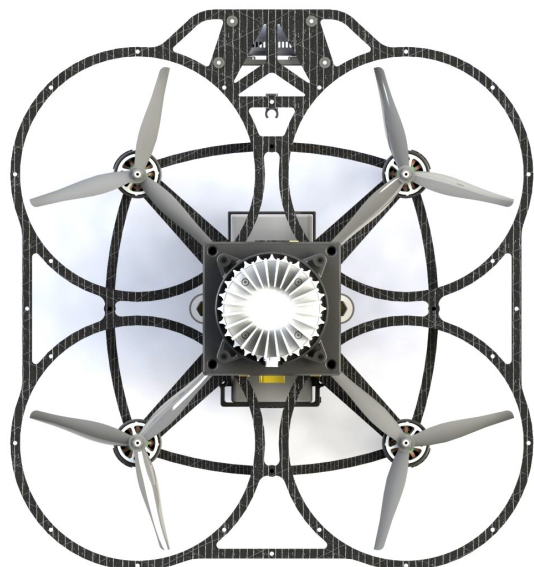
Payload Options

Companion computer	Jetson Orin NX Intel NUC
Cameras	Intel D435, D435i, D455 D435f, D435if, MIPI, Luxonis
Sensors	Ouster OS0-32/64/128

SOFTWARE

Flight control	PX4 (UVify Core) Ardupilot
High-level control	ROS Melodic (Jetson) ROS Noetic (Intel) MATLAB UAV Toolbox (Both)

TOP VIEW



SIDE VIEW



SALES CONTACT

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