



- Unprecedented Resolution
- Quick and Safe Surveys
- Easy-to-Export Data

Small Package + Big Results

Topographic + Underwater Mapping

Seeing Beyond the Surface

Edge™ is now the optimal choice for both small scale and larger scale survey and mapping projects:

- Streams, Rivers, Ponds, & Lakes
- Near-Shore / Coastal Environments
- Water Resource Management
- Natural Disaster Assessment & Recovery
- Underwater Infrastructure Inspection
- Military Logistics
- Industrial Retention Ponds



Edge™ is the world's first small-scale topographic and bathymetric scanning LiDAR that can detect small underwater objects, measure shallow water depth, and survey critical underwater infrastructure from a small UAV platform.

LiteWave Technologies, *inc.* was created with the vision of providing unique LiDAR capabilities, sensors, and products for next-gen bathymetric surveying. We give our customers the tools to see beyond the surface using novel LiDAR and optical capabilities. From coastal mapping and surveying, to infrastructure inspection and military logistics, the applications of our LiDAR are numerous and widespread.

Edge™ provides high-definition measurements both above and below the water surface and accurately measures the transition from land to water. Additionally, we provide simultaneous water- and bottom-surface detection at sub-centimeter accuracy and precision from shore through shallow waters—an industry first.

Our versatile scanning LiDAR provides 3-D imagery of the underwater scene, and yet meets the size, weight, and power requirements for common-use UAV (drone) deployment—another industry first.

System Specifications

Weight	5 kg
Dimensions	27 cm x 23 cm x 19 cm
Power Supply	Internal Li-Ion Battery – 1-hour lifetime
Data Interface	USB
Data Volume	1 GB / 10 minutes
Laser Class	Class 3R Laser Product according to IEC 60825-1:2007
Nominal Ocular Hazard Distance (NOHD)	3 m: (Eye safe at > 3 m) distance from observer

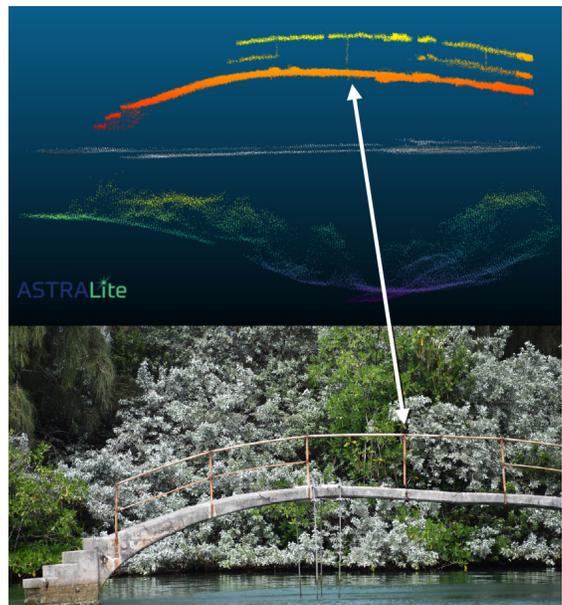
Note: These are preliminary specifications for first article production unit. Actual specifications will vary based on design options selected and/or purchase order agreement.

- Low size, weight and power design for use on small form-factor UAVs.
- Rechargeable Li-Ion battery is easily removed and swapped for additional flights.
- Optional data interface can be specified upon ordering.
- Extremely low data volume compared to other LiDAR systems makes for faster processing and lower storage requirement.



System Includes

Edge LiDAR	<ul style="list-style-type: none"> • Includes internal GPS/IMU • Includes internal downward-pointing camera
Dual GPS antennas	With mounting booms
Mounting Hardware	For integration onto UAV (e.g. DJI Matrice 600 Pro)
Removable data storage	USB drive
USB cord	To connect smart device to LiDAR
Li-Ion battery with charger	1-hour runtime - additional batteries for purchase
Pelican Case	For safe storage and transport



Coastal Mapping - Panama City, FL

