

EasyOneLiDARUHR+

THE MOST COMPACT SURVEY-GRADE DRONE LiDAR SURVEYING EQUIPMENT ON THE MARKET

This is our best LiDAR drone surveying equipment ever. Built upon our 4th-gen drone technology, all EasyOne systems are more compact, more optimized, lighter, safer and more efficient. This system delivers integration unmatched in the drone surveying industry, making it easier than ever for you to plan, fly, collect, process and visualize your geospatial data projects.



EASYONEUHR+ TECHNICAL SPECS

SOLUTION COMPONENTS

Platform

EasyOne

Ground Control System

- RC with 7-inch integrated tablet
- mdCockpit 2
- FPV camera
- Radio: 2.4 GHz
- Tx power: up to 23dB
- Encryption: AES-128

Payload

- LiDAR Sensor: Hesai Pandar XT32M2X
- Camera Sensor: 1x Microdrones CMOS APS-C 26 MP
- Georeferencing: Trimble APX-15 UAV

Software

- mdCockpit 2
- LP360 Drone



TECHNICAL SPECIFICATIONS

Takeoff Weight (TOW)

- 5.2 kg

System Operation Temperature

- -10 °C to 40 °C
- 14 °F to 104 °F

Scanner Performance

- Precision: 5 mm
- Accuracy: 20 mm
- Number of returns: 3

GNSS/INS Performance

- Position: 20-50 mm
- Angle: 0.025 deg Roll/Pitch, 0.08 deg Heading

Survey System Performance

- Precision observed on one strip: Typical 20 mm, Less than 15 mm (1 sigma) observed at 75 m on concrete
- Accuracy: Typical 3 cm RMSE, better than 5 cm 3D RMSE – depending on GNSS conditions, accuracy of control points and coordinate system

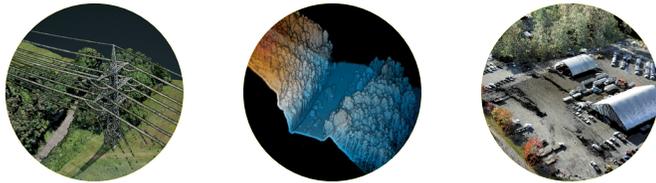
Photogrammetry

- Horizontal: 2 – 3 pixels
- Vertical: 3 – 5 pixels

* 1 @ 50 m, nadir and with Strip Align



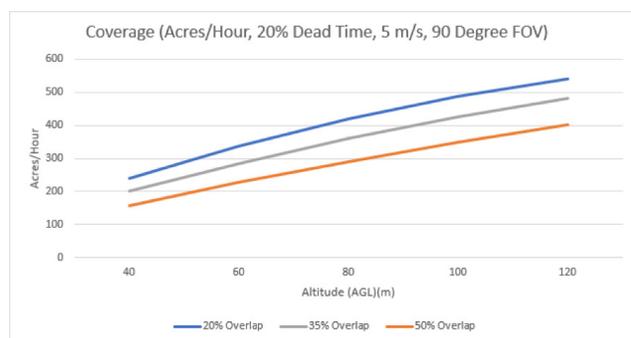
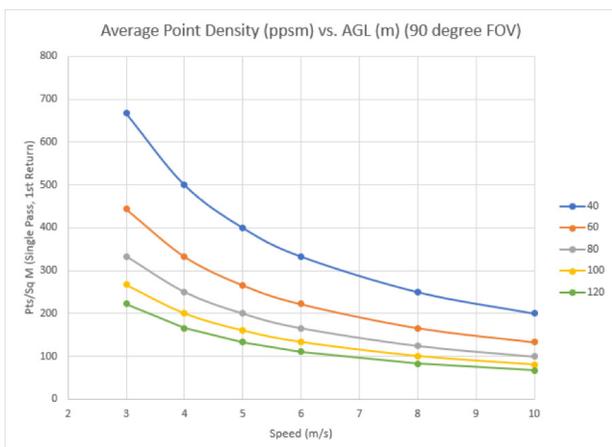
Compact Carrying Case



PAYLOAD TECHNICAL SPECS

LiDAR Range - Usable	120 m @ 20% reflectivity
LiDAR Beams/Returns	32/3
Cross-track Field of View (FOV)/Combined	120°
In-track FOV	40.3° (-20° to +19.5°)
Pulse Repetition Rate	640 kHz
Accuracy	Typical 3 cm
Precision	Typical 3 cm
System Operation Temperature Range	-15° to 50° C

EASYONEUHR+ SURVEY PERFORMANCE GRAPHS



- (1) Flight Altitude Above Ground Level (AGL)
- (2) Coverage estimated for approximately 25 minutes of flight time.
- (3) Point density calculated for Single Pass, 90 Degree FOV, 1st Return Only.