

# EasyOneLiDARUHR Lite

OUR BEST LiDAR PAYLOAD FROM THE 1000 SERIES, NOW AVAILABLE ON OUR NEW AIRFRAME

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 Lite 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 XT-16 (upgradeable to XT-32 via firmware)
- Camera Sensor: 1x Microdrones CMOS APS-C 26 MP
- Georeferencing: Trimble APX-15 UAV

#### Software

- mdCockpit 2
- LP360 Drone



### TECHNICAL SPECIFICATIONS

#### Takeoff Weight (TOW)

- 5.6 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: 2

#### GNSS/INS Performance

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

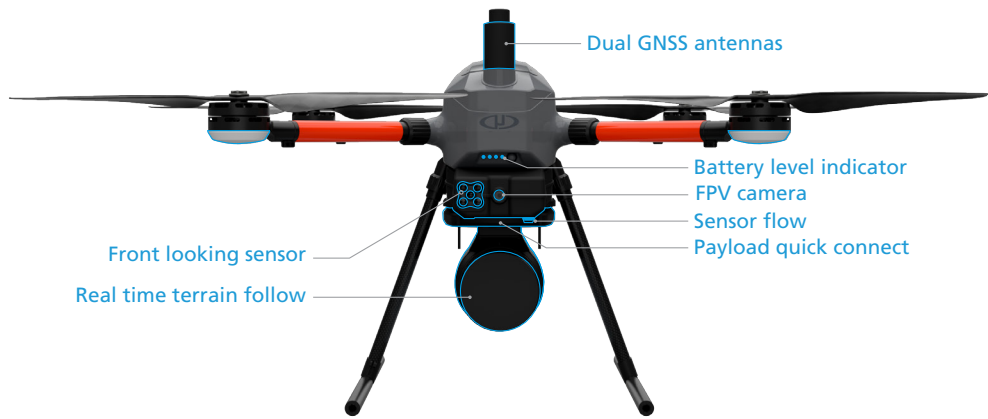
#### Survey System Performance

- Strip precision: 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

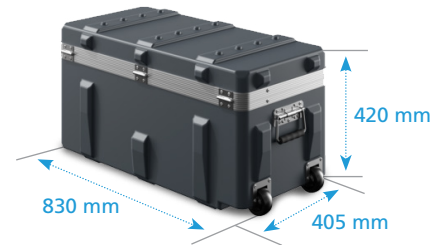
- Horizontal: 2 – 3 pixels
- Vertical: 3 – 5 pixels

\* 1 @ 50 m, nadir and with Strip Align



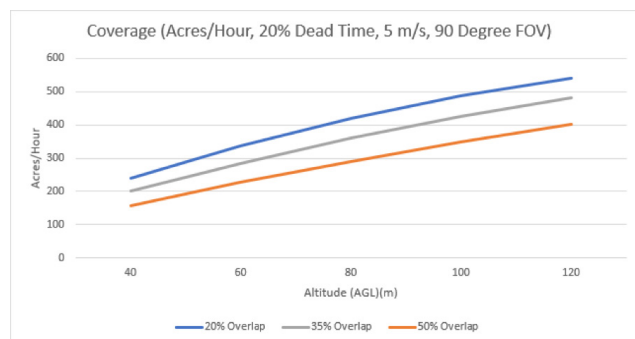
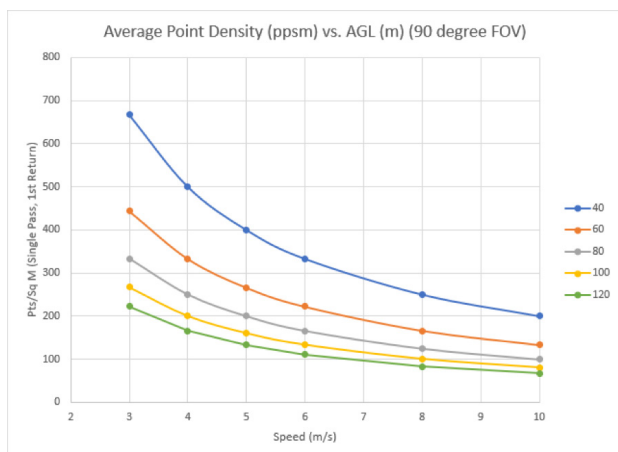
## PAYLOAD TECHNICAL SPECS

Flight Altitude AGL (1,2) (m/ft)	40/130	60/200	80/260	100/330
Area Coverage at 20% Overlap (hectare/acres) <sup>(3)</sup>	87/214	121/299	149/368	171/423
Area Coverage at 35% Overlap (hectare/acres) <sup>(3)</sup>	72/179	102/253	129/318	150/372
Area Coverage at 50% Overlap (hectare/acres) <sup>(3)</sup>	57/141	82/203	104/258	124/308
Speed (m/s)	Average Point Density in pts/m <sup>2</sup> (2,3) (Single Pass, 90 degree FOV, 1st Return Only)			
3	334	222	166	133
4	250	166	125	100
5	200	133	100	80
6	166	111	83	66
8	125	83	62	50
10	100	66	50	40
Camera GSD (mm)	9.4	14.1	18.8	23.5
Swath width (m/ft) at 56° FOV	42/138	63/207	85/279	106/348
Swath width (m/ft) at 90° FOV	80/262	120/394	160/525	200/656
Swath width (m/ft) at 110° FOV	114/374	171/561	228/751	285/935
Number of Laser Returns	2	2	2	2



Compact Carrying Case

## EasyOneUHR Lite 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.