

EasyOneLiDAR NDAA

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

Built upon our 4th-gen drone technology, the EasyOne NDAA is compact, lighter, safer, efficient and NDAA compliant. 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.



EasyOneLiDAR NDAA 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: Ouster OS1 LiDAR sensor (128 channels)
- Camera Sensor: Triple 1" mechanical shutter, hardware mid-exposure pulse, 60 MP combined, RGB
- 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: 20 mm
- Accuracy: 25 mm
- Number of returns: 2

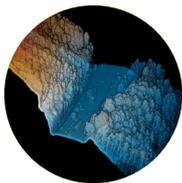
GNSS/INS Performance

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

Survey System Performance

- Precision observed on one strip: Typical 6cm 1 sigma at 60m
- Accuracy: Typical 5cm RMSE – depending on GNSS conditions, accuracy of control points and coordinate system





Compact Carrying Case

PAYLOAD TECHNICAL SPECS

LiDAR Range - Usable	120 m @ 20% reflectivity
LiDAR Beams/Returns	32/2
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

EasyOneLiDAR NDAA SURVEY PERFORMANCE GRAPH

