



Model Code	LiDAR-wiz
Product Series	Scan2Cloud
Application Mode	UAV-based scanning & imaging
LiDAR Field-of-View	70.4°(H.)x77.2°(V.)
Net Weight (with camera)	1.015 kg
Dimensions (LxWxH)	155x92x93 mm
Power Supply	12-24 V
Power Consumption	20 W
Constellation Support	GPS L1/L2/L5; Glonass L1/L2;

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	BDS B1/B2/B3; Galileo E1/E5a/E5b

Operating Temperature20~+55°C	
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Data Storage.. SD card, 64 GB on board, 128 GB external Positioning Accuracy..... ≤5 cm (H. 2 cm; V. 3 cm typical)

POS Refresh Rate..

IMU Accuracy.. pitch/roll 0.025°; heading 0.08° UAV Interface. standard flange connector

solid state sensor
Class 1 (IEC 60825-1:2014)
905 nm
equivalent to 64-channel
IP 67
optimal 2 cm (1σ @ 20m)
≤10 cm @100 m
max. 3 returns
max. 720,000 points per second
(in triple returns)
max. 450 m @ 80% reflectivity
typical 50-200 m, best below 150 m
26 MP, E17 mm
83°
equidistance/isochronal
155x92x93 mm



LiDAR-wiz, Scan2Cloud Series



Drone-eco Plus, Fly2Map Series

AERIAL EFFICIENCY

flight height	imaging resolution	point density	absolute accuracy	aerial coverage
53 m	1.25 cm	approx. 200-300 pts/sq.m	≤5 cm	approx. 100 ha
64 m	1.5 cm	approx. 180-250 pts/sq.m	≤7 cm	approx. 120 ha
85 m	2.0 cm	approx. 150-230 pts/sq.m	≤10 cm	approx. 150 ha
106 m	2.5 cm	approx. 120-180 pts/sq.m	≤12 cm	approx. 180 ha
128 m	2.5 cm	approx. 100-150 pts/sq.m	≤15 cm	approx. 200 ha

Note: the data shown above is based on flat terrain conditions for job reference only, and the estimated coverage per flight is computed with 10m/s flight speed, horizontal FOV 77° and 30 minutes for a mission. Complex terrain of elevated areas or vegetated zones might reduce the work efficiency somehow. The point density varies greatly from reflective distance and reflective ratio of the target, moving speed of the carrier and air permeability. In case that colorized point cloud and orthophoto map are supposed to generate both, the aerial coverage will be accordingly decreased due to higher side overlapping or say, smaller strip interval to meet photogrammetry requirements.



















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dealer info



One-key Operation. One-step Processing.







----- standard flange connector ---- SD card slot Type-C interface LiDAR-WIZ power switch ----- imaging sensor ------ scanner sensor

FEATURES



toolless assembly designed for quick mount

centimeter-level accuracy to satisfy diverse needs





one-key operation for quick start to mission

well-balanced scanning/imaging FOV to meet efficiency





Platform A:

one-step process straight to colorized point cloud

✓ PLATFORM



Payload interface: flange connector

LiDAR-wiz to connect:

ready to fit (as default)





Platform B: Matrice300-RTK, DJI Dimensions (LxWxH): 810x670x430 mm Endurance (with LiDAR): approx. 25-30 min

Payload interface: SkyPort PSDK **LiDAR-wiz to connect:** ready to fit (by PSDK)

Extra Customization Needed

✓ WORKFLOW

flight planning





scanning & imaging

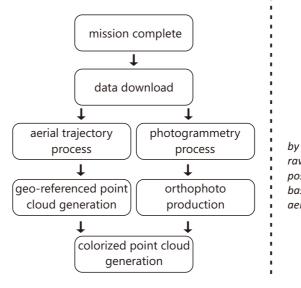




one-step processing

mapping & application

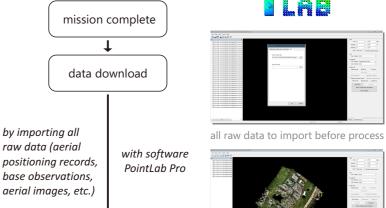
Some Other Solutions ↓



Our Solution ↓

colorized point cloud

generation



colorized point cloud generated

Geo-referenced Point Cloud Orthophoto Map **Colorized Point Cloud**

