

LiGrip H300



Discover the latest innovation in GreenValley's LiGrip handheld series, the LiGrip H300. This sleek and compact device offers lightweight handling, user-friendly operation, and versatile installation options. With its advanced sensors, the LiGrip H300 can quickly capture extensive scene data across various platforms, such as handheld, backpack, mounted on vehicle and drone.

Experience the power of multiple high-precision mapping methods, including SLAM, PPK-SLAM, and RTK-SLAM, allowing you to swiftly acquire point cloud data with absolute coordinates. Combined with GreenValley's self-developed LiDAR 360 and LiDAR 360MLS software, the LiGrip H300 effortlessly tackles last-mile challenges in mapping, mining, forestry, and road asset survey.

Features

- 300-Meter Scanning Range
- 640,000 pts/s
- Versatile Mapping Methods (SLAM, RTK-SLAM, and PPK-SLAM)
- Multi-Platform Compatibility (Backpack, Mounted on Vehicle and Drone)
- Real-Time Point Cloud Data Processing
- 1-inch CMOS Detachable Panoramic Camera with 6K Resolution
- Lightweight (1.3kg) and Portable



System Parameters

Handheld Dimensions	L195mm×W125mm×H350mm	Voltage	15.2V
Battery Box	L134mm×W64.6mm×H167mm	Storage	512GB
Handheld Weight	1.67kg (Including Tripod and Camera)	Battery Capacity	5870mAh
Protection Level	IP54	Port	USB, Ethernet
Suitable Environments	Versatile for a wide range of indoor and outdoor applications		
Continuous Scanning Duration	up to 55 minutes	Single Battery Life	3 hours

LiDAR Sensor Parameters

Scanning Frequency	640,000pts/s	Scanning Range	up to 300 meters
Scanning Accuracy	Up to 1cm	FOV	280°×360°

Camera

Camera Type	Insta One RS 1-inch Panoramic Version	Imagery Resolution	6528×3264
Data Format	MP4, INSV	Video resolution	6144×3072
Dimensions	L95mm×W60mm×H55mm (including heat dissipation structure)	CMOS Size	1 inch

RTK Module

GNSS System	GPS+BDS+Glonass+Galileo+QZSS, Supports 5 constellations and 16 frequencies		
RTK Accuracy	1cm+1ppm	RTK/PPK Protocol	NTRIP
Dimensions	L97mm×W71mm×H30mm	Weight	190g
GNSS Raw Data Format	.log	RTK Data Format	.rtk
Compatibility	RTK/PPKsupport for H300 and H120 models		

Mapping Method

Mapping Principles	RTK-SLAM, PPK-SLAM, SLAM	Real-time processing	supported
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Data Outcomes

Relative Accuracy	Up to 1cm	Absolutely Accuracy	≤5cm
Point Cloud Data Format	Las, LiData		
