LiGrip H120

Rotating Handheld SLAM LiDAR System

LiGrip handheld rotating laser scanner is a new series of products launched by GreenValley International. The product adopts a simple style design, compact body, light hand-held, convenient operation and flexible installation; with a variety of sensors, it can quickly capture a wide range of scenes Data; supports multi-platform and multi-mode operations, and combines lidar and SLAM algorithms to achieve integrated indoor multi-scene measurement. With GreenValley's self-developed LiFuser-BP point cloud processing software, the point cloud data can be post-processed quickly.

Advantages

Lightweight

Minimalistic design with an Aluminum shell provides a light yet sturdy handheld system

Multi-platform

Supports handheld, backpack, vehicle, airborne, and other operating platforms to achieve full coverage of collection requirements in different scenarios and further improving operation e☒ciency

Customizable

Highly adaptable design, allowing for various modular integrations and custom to the users' needs

Multi-modal

Supports two operating modes: mobile WIFI (all-in-one kit) and clientless (pure hand-held built-in) operation, which can be exibly selected according to the operating environment

Versatile

With add-on options allowing for adaptations as a UAV, Vehicle, or Backpack mount, the LiGrip is GreenValley's most versatile LiDAR system to date

Cutting-edge SLAM Algorithm

Utilizing GreenValley's very own Industry-leading SLAM (Simutaneous Localization And Mapping) algorithm, LiGrip providesreal-time on-the-go accurate positioning as you map your environments

Specifications

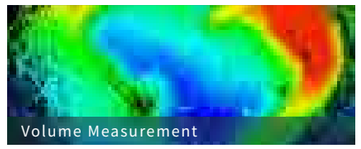
System Parameters			
Size	L204mm×W130mm×H385mm	Weight	1.74kg
Battery Pack Size	L134mm×W64.6mm×H167mm	Voltage	15.2V
Battery	5870mAh	IP Code	IP54
Storage	256GB SSD	Voltage	USB, Ethernet
Suitable Environments	Indoor and outdoor scenarios	Battery Life	~4h (per battery)

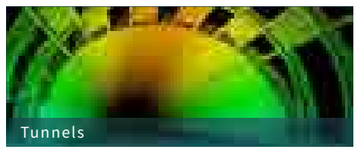
LiDAR Parameters			
Scan Rate	320,000pts/s	Scan Range	120m
LiDAR Accuracy	±3cm	FOV°	280°×360°

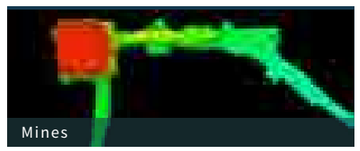
Camera			
Camera Type	360 ° panoramic lens intergration	Photo resolution	6080×3040（2：1）
Data Format	insv	Video resolution	5760×2880@30fps
Video coding	H.264 / H.265	Size	72mm×48mm×43mm

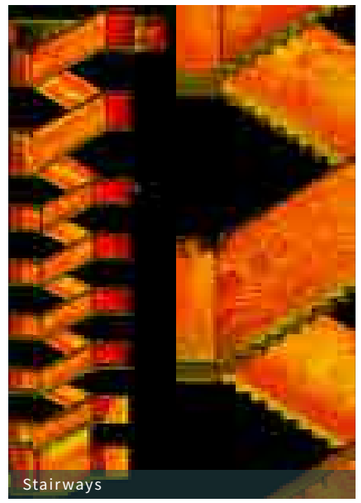
Resulting Data			
Relative Accuracy	⩽3cm*	Absolute Accuracy	5cm
Point Cloud Formats	Las, Ply, LiData		

Application









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