

# LiGRIP

## Rotating Handheld SLAM LiDAR System



LiGrip is a new series of products launched by GreenValley International. The product adopts a simplistic lightweight design compact body for convenient and versatile operating options. Boasting an integrated Velodyne VLP-16 puck LiDAR sensor and HD camera, LiGrip is a fit for many industry-specific projects. Multi-platform support, combining LiDAR and cutting-edge SLAM algorithms to achieve highly accurate HD mapping in even the most challenging environments.

### Specifications

System Parameters			
Size	L270mm×W210mm×H120mm	Battery Pack Size	L128.5mm×W64mm×H165mm
Weight	1.5kg	Battery	5870mAh
Battery Life	~4h (per battery)	Voltage	18V
Connections	USB, Ethernet	Storage	128G SSD
Suitable Environments	Indoor and outdoor scenarios		
LiDAR Parameters			
LiDAR Sensor	VLP16	LiDAR Accuracy	±3cm
FOV°	280°×360°	Scan Range	100m
Scan Rate	300,000 pts/s		
Camera			
Type	Panoramic Camera	Resolution	TBC
Resulting Data			
Relative Accuracy	≤3cm*	Absolute Accuracy	5cm
Point Cloud Formats	Las, Ply, LiData		

## Advantages

### ▮ Weather-Resistant Design

With an IP65 protection rating, the LiGrip is rugged and resistant to rain and dust

### ▮ Lightweight

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

### ▮ Customizable

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

### ▮ 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 (Simultaneous Localization And Mapping) algorithm, LiGrip provides real-time on-the-go accurate positioning as you map your environments

## Applications

