

GLidar

Mobile lidar scanner



Delivers instant results

Real time data processing

3D model generation
and visualization

Modular design, removable
handle and battery

Samples up to 5.2 Million
points per second

Filter for horizontal
and vertical field of view,
min/max distance, reflectivity

GLidar specifications

Battery	Any common electrical tool battery
Connectivity	Ethernet, WiFi, BT, USB 3.2

Dimensions	Length × Width × Height
Scanner w/o battery and handle	130 × 97 × 130 mm
Scanner with battery w/o handle	130 × 97 × 200 mm
Scanner with handle and battery	130 × 97 × 320 mm

Lidar sensor type	OS0 REV7 Ultra-wide view	OS1 REV7 Mid-range
Vertical resolution (channels)	64 or 128	64 or 128
Maximum representable range	~100 m	~200 m
Range (10% reflective target @ 90% detection prob.)	35 m	90 m
Minimum range [1]	0.5 m	0.5 m
Precision [2]	±0.5 cm to ±5 cm	±0.5 cm to ±5 cm
Vertical field of view	90°	45°
Vertical angular resolution	1.4°(64ch) 0.7°(128ch)	0.7°(64ch) 0.35°(128ch)
Horizontal resolution	512, 1024, or 2048	512, 1024, or 2048
Horizontal field of view	360°	360°
Horizontal angular resolution	up to 0.18°	0.18°
Points per second	up to 5,242,880	up to 5,242,880
Frame rate	10 or 20 Hz	10 or 20 Hz
Number of returns	2 (strongest, second strongest)	2 (strongest, second strongest)
Operating voltage	18-24 V	18-24 V
Operating temperature [3]	-40 to +70 °C	-40 to +70 °C
Beam configuration options	Only for 64ch	Only for 64ch
Field of view left	Uniform 90°	45°
Angular resolution right (128ch and 64ch for Uniform)	Gradient	
Above Horizon	45°	22.5°
Below Horizon	45°	22.5°

[1] Blockage detection binary flag between 0 m and the minimum range (v2.0 beta feature)
 [2] 10% Lambertian reflectivity, 1 standard deviation, OS0 operating in 1024 @ 10 Hz mode
 [3] Between +53 °C to +60 °C, sensor automatically reduces range (max 20% range reduction)

Errors and technical modification subject to change.



OS0



OS1

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