GENERAL LASER

GLidar Atlas

Long-range mobile SLAM scanner

Powered by Ouster REV8 – native color lidar

Delivers **instant results**

Real-time data processing, 3D model generation and visualization

Native color point cloud – RGB captured directly by the REV8 sensor

Over 200 m range with the Ouster OS1 Max

Samples up to **10.4 million points** per second

Modular design, exchangeable battery

Available with Ouster REV8 sensors

OS**Dome**

OS**0**

OS**1**

OS**1 Max**

GLidar Atlas specifications

Lidar sensor type	OSDome REV8 Full hemisphere	OS0 REV8 Ultra-wide view	OS1 REV8 Mid-range	OS1 Max REV8 Long-range
Vertical resolution (channels)	64 or 128	64 or 128	64 or 128	64, 128 or 256
Native color point cloud (RGB-D)	Yes	Yes	Yes	Yes
Maximum representable range	~250 m	~250 m	~250 m	~500 m
Range (10% reflective target @ 90% detection prob.)	20 m	35 m	90 m	200 m
Range (80% reflective target)	45 m	75 m	170 m	350 m
Minimum range	0.0 m	0.0 m	0.0 m	0.0 m
Precision [1]	±0.5 to ±5 cm	±0.25 to ±1.5 cm	±0.25 to ±1.5 cm	±0.25 to ±1.5 cm
Accuracy [1]	±1.25 cm	±1.25 cm	±1.25 cm	±1.25 cm
Vertical field of view	180°	90°	45°	45°
Vertical angular resolution	1.4° (64ch) 0.7° (128ch)	1.4° (64ch) 0.7° (128ch)	0.69° (64ch) 0.34° (128ch)	0.69° (64ch) 0.34° (128ch) 0.17° (256ch)
Horizontal resolution	512, 1024, 2048 or 4096	512, 1024, 2048 or 4096	512, 1024, 2048 or 4096	512, 1024, 2048 or 4096
Horizontal field of view	360°	360°	360°	360°
Horizontal angular resolution	up to 0.09°	up to 0.09°	up to 0.09°	up to 0.09°
Beam divergence (FWHM)	0.35°	0.35°	0.18°	0.09°
Points per second	up to 10,485,760	up to 10,485,760	up to 10,485,760	up to 10,485,760
Frame rate	5, 10, 15, 20 or 30 Hz	5, 10, 15, 20 or 30 Hz	5, 10, 15, 20 or 30 Hz	5, 10, 15, 20 or 30 Hz
Number of returns	2 (strongest, second strongest)	2 (strongest, second strongest)	2 (strongest, second strongest)	2 (strongest, second strongest)
Sensor operating temperature [2]	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C

Battery	Exchangeable 5,000 mAh Li-ion pack, USB-C, 485 g – up to 150 min per charge
Connectivity	Ethernet, WiFi, BT, USB 3.2
Export formats	.las, .lx – more coming soon
Ingress protection	IP 54

[1] Typical, Lambertian targets beyond 1 m, 1024 @ 10 Hz mode, 1 standard deviation
[2] Sensor specification when mounted in accordance with the Ouster Thermal Integration Guide

Errors and technical modification subject to change.

OS**Dome**

OS**0**

OS**1**

OS**1 Max**

Painted Ladies, San Francisco – native color point cloud captured with an Ouster REV8 sensor

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