



Ouster OS0 Rev7: Wide View 3D 360 Lidar

Ouster OS0 is a family of lidars offering up to 90° of a vertical viewing angle with an object detection range of 0-55m. Depending on the version, from 32 to 128 beams scan the surroundings with a frequency of up to 20 Hz. The built-in IMU allows to easily implement SLAM algorithms. In addition to the typical Lidar point cloud, this sensor also provides a 2D image of the environment, thus facilitating the creation and verification of algorithms. The highest level of protection against external con...

Parameter	Value
Vertical resolution	32, 64 or 128 channels
Maximum range	55 m
Nominal range	15 m
Minimum range	0 m
Precision	± 1.5 cm - ± 5 cm
Vertical viewing angle	90
Vertical resolution	3 (32ch version), 1.5 (64ch version), 0.75 (128ch version)
Horizontal viewing angle	360
Horizontal resolution	0.18
Frames per second	10 or 20 Hz

Protection level	IP68, IP69K
Time synchronization	PTP; \$ GPRMC
Built-in IMU	Yes
Power	24V (14-20W)