



Ouster OS2 Rev7: Long Range 3D 360° Lidar

OS2 Ouster is a family of lidars offering up to 22.5° angle in a vertical 1-400 m range object detection. Depending on the version, between 64 and 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 point cloud typical of Lidars, 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 conditio...

Parameter	Rev7
Vertical resolution	64 or 128 channels
Maximum range	400 m
Nominal range	200 m
Minimum range	0.8 m
Precision	± 2cm - ± 8 cm
Vertical viewing angle	22.5°
Vertical resolution	0.36° (64ch version), 0.17° (128ch version)
Horizontal viewing angle	360°
Horizontal resolution	0.18°

Frames per second	10 or 20 Hz
Protection level	IP68, IP69K
Time synchronization	gPTP; PTP; \$GPRMC
Built-in IMU	Yes
Power	24V (14-20W)