



Solid-state ToF LiDAR Sensor

Cyg-LiDAR

2D / 3D Dual LiDAR

Light Detecting and Ranging Sensor

Cyg-LiDAR Monitoring Program

Software enables users to verify operation of LiDAR by turning 2D and 3D data into flat Images and Point Cloud



Ethernet

TCP	50660
UDP	45454

Connected 10.10.31.180 ☒

Device Info

Release Version

Firmware

Hardware

Device Model CygLiDAR-H2

Display Mode 3D

Maximum Distance 15000 mm

Maximum Angle 110 °

Angle Step

2D Frame Per Secon 0

3D Frame Per Secon 0

Settings

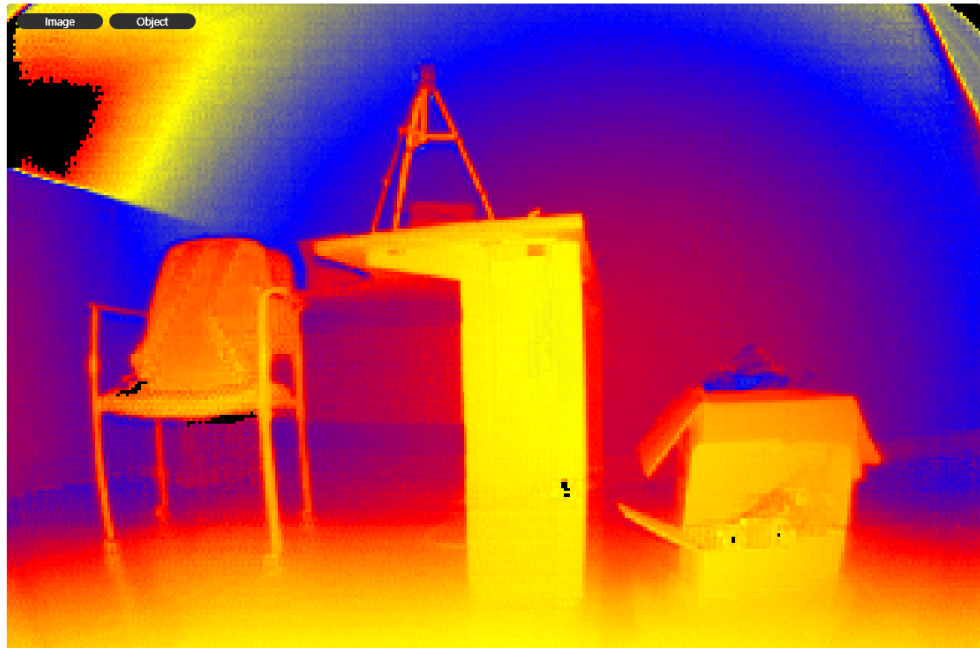
Filter ☐ Median ☐ Average ☐ Edge

HDR Mode ☐ On ☒ Off

Modulation 12Mhz

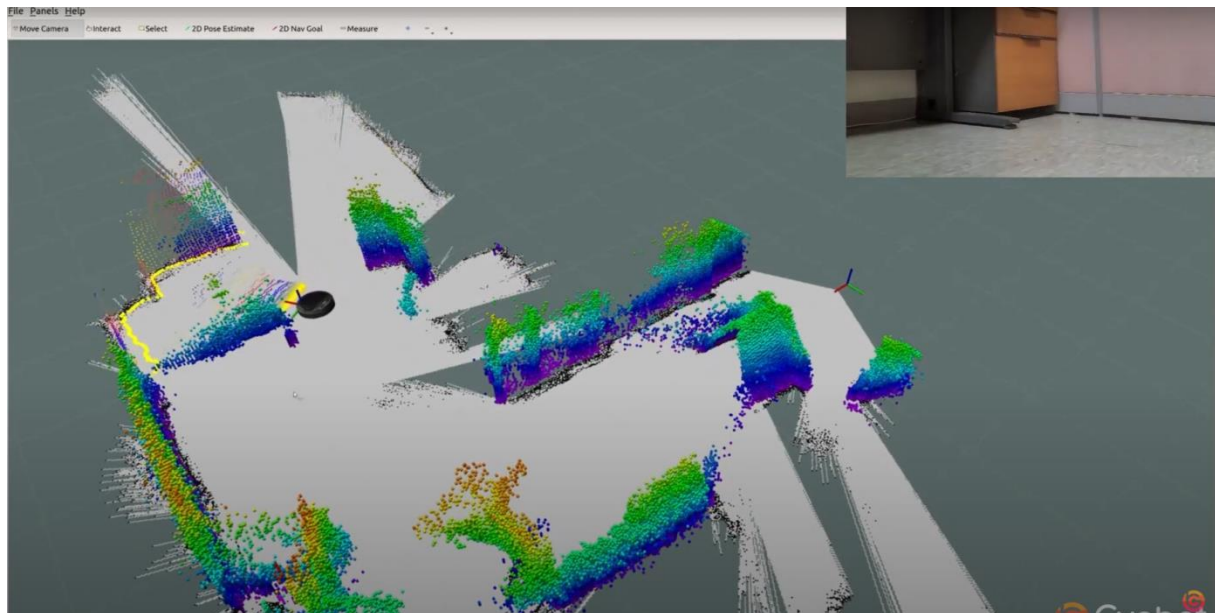
Display Settings

Maximum Distance 5000 mm



SLAM

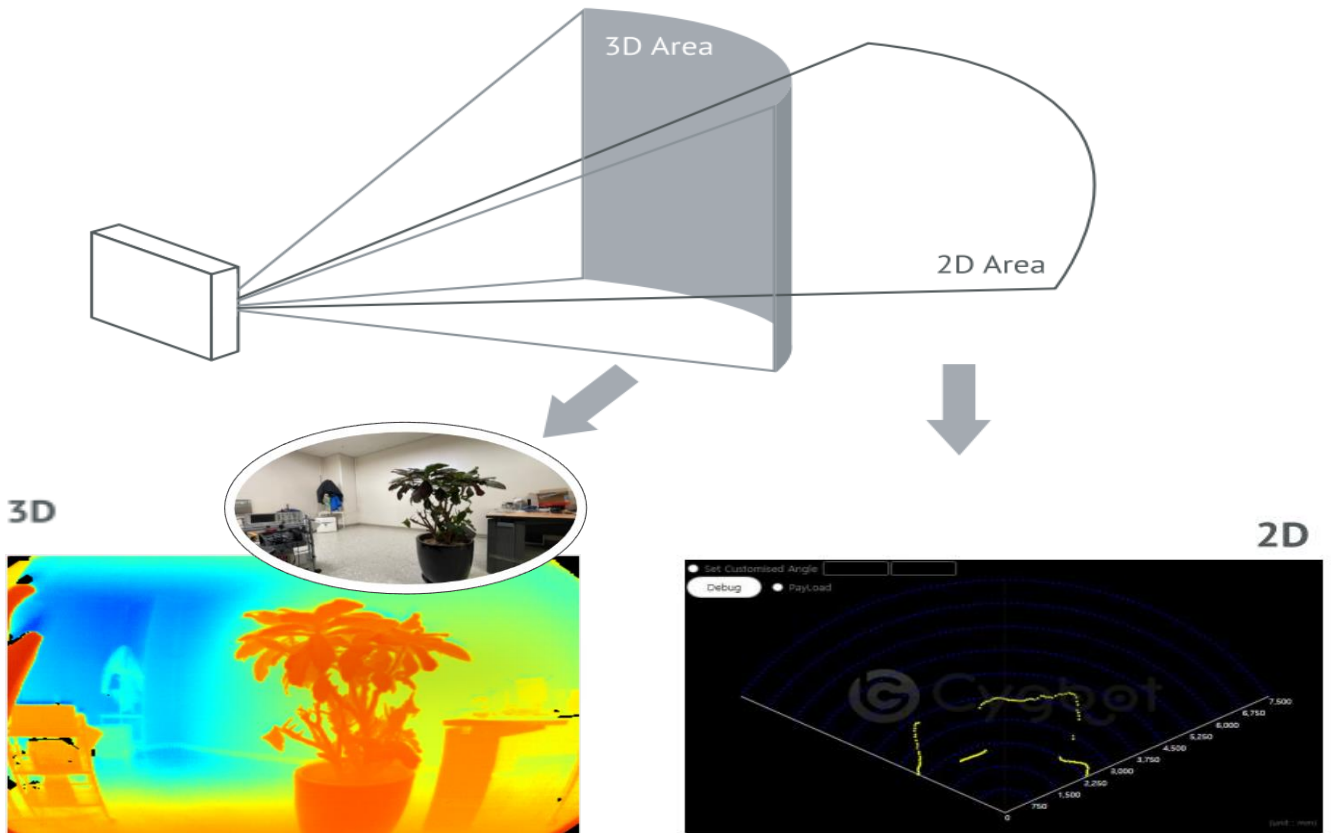
Simultaneous localization and mapping.
Image of robot using 2D and 3D distance data.



Cyg-LiDAR

2D / 3D Dual LiDAR

Cyg-LiDAR can obtain 2D and 3D distance data at the sametime.
3D data is able to accurately recognize the situation and 2D data
can be measured long distance



Strength

- Low Cost** Solid-State LiDAR without motor.
- Small Size** and Light Weight.
- Applicable to various robots to realize precise **SLAM** technology and **obstacle avoidance**.



PRODUCTS



CygLiDAR D1 : Indoor
CygLiDAR D2 : Outdoor



CygLiDAR H2



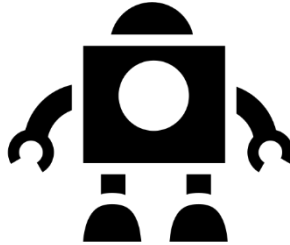
CygLiDAR H2A

FOV	2D : 120deg 3D : H120,V65deg	FOV	2D : 120deg 3D : H120,V80deg	FOV	3D : H90,V65deg
Measurement Range	2D : <8.0M 3D : <2.0M	Measurement Range	2D : <25.0.0M 3D : <13.0M	Measurement Range	3D : <25.0M
Angular Resolution	2D : 0.7deg 3D : 160 x 60	Angular Resolution	2D : 0.35deg 3D : 320 x 240	Angular Resolution	3D : 320 x 240
Frame Refresh Rate	2D : 15Hz 3D : 15Hz	Frame Refresh Rate	2D : 20Hz 3D : 20Hz	Frame Refresh Rate	3D : 20Hz
Distance Accuracy	<±1%	Distance Accuracy	<±1%	Distance Accuracy	<±1%
Interface	UART	Interface	ETHERNET	Interface	ETHERNET
Operation Voltage	5V	Operation Voltage	12V	Operation Voltage	12V
Operation Temperature	-10 ~ 50℃	Operation Temperature	-10 ~ 50℃	Operation Temperature	-10 ~ 50℃
Power Consumption	1.2W	Power Consumption	5W	Power Consumption	5W
Connector	5pin,P2/54mm	Connector	RJ45	Connector	RJ45
Weight	28g	Weight	204g	Weight	204g
Size	37*37*25mm	Size	70*45*40mm	Size	70*45*40mm

Applications



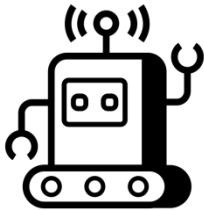
① Cleaning Robot



② Service Robot



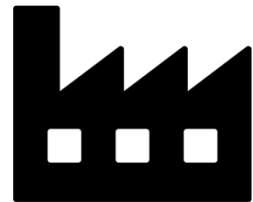
③ Toy Robot



④ Mobile Robot



⑤ Drone



⑥ Industrial



⑦ People Counting



⑦ Autonomous Driving
(Auto Parking)



⑧ VR / AR

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Cygbot researches sensors
that recognize 3D
environments and provides
information to robots that
recognize space.

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