Cygbot

Human and technology

Solid-state ToF LiDAR Sensor

Cyg-LiDAR

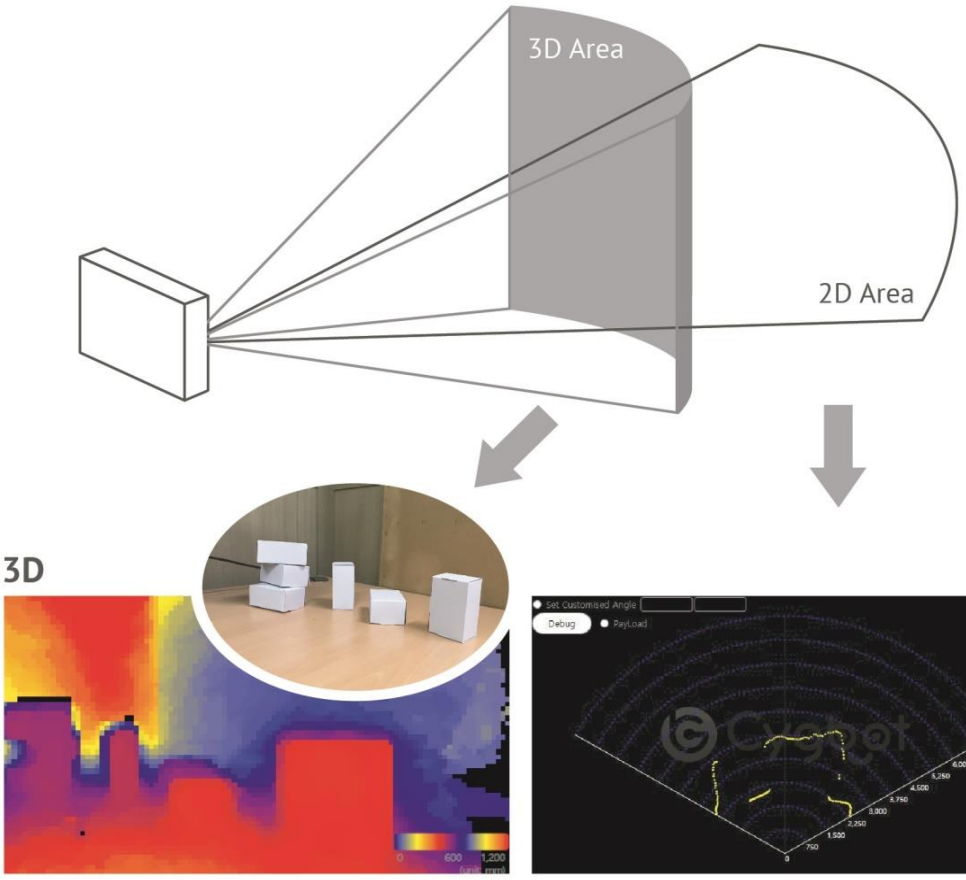
2D / 3D Dual LiDAR

Light Detecting and Ranging Sensor

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



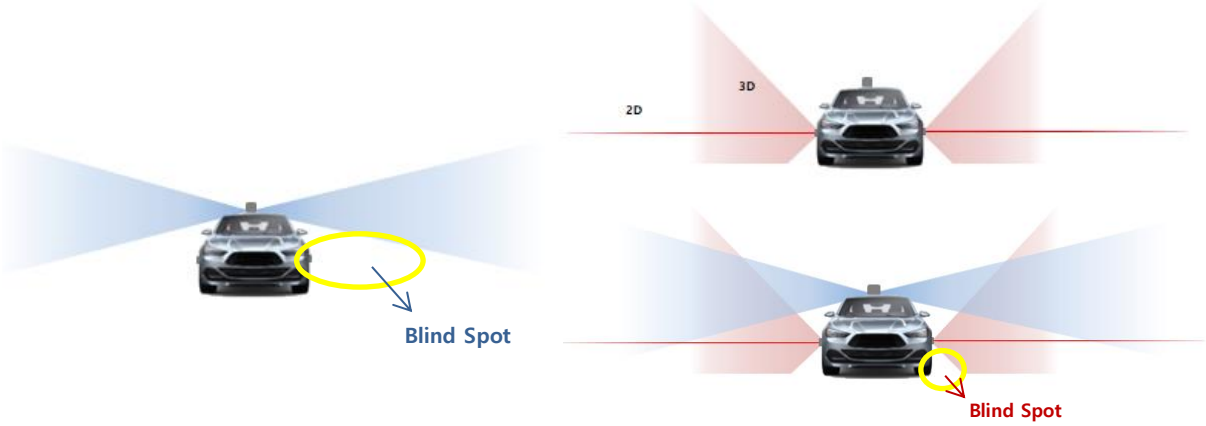
Strength

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

Cyg-LiDAR

Near-Field LiDAR For Autonomous Vehicles

CygLiDAR can detect dangerous corner cases and objects (such as pets, children, etc.)
It can further comprehensively achieve less blind spots in the sensing zone to ensure the safety of autonomous driving.

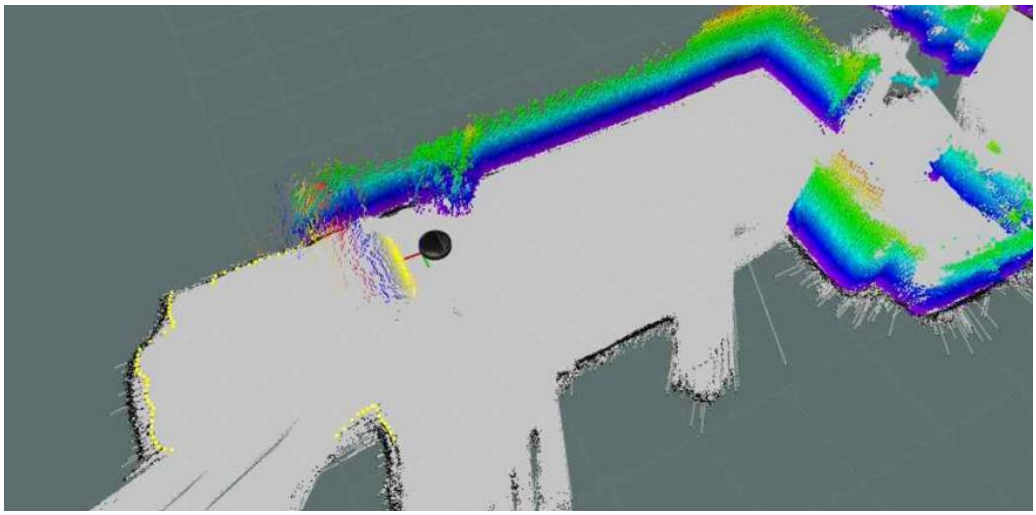


W/O Near-field LiDAR

W/ Near-field LiDAR

SLAM

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



PRODUCTS

2D/3D Dual Solid State ToF LiDAR For Mobile Robot

Horizontal FOV	2D : 120deg
	3D : H120, V45deg
Measurement Range	2D : < 10.0M
	3D : < 2.0M
Angular Resolution	2D : 1deg
	3D : 160 x 60
Frame Refresh Rate	2D : 20Hz
	3D : 10Hz
Distance Accuracy	< ± 1%
Interface	UART
Operation Voltage	5V
Operation Temperature	-30°C ~ 70°C
Power Consumption	1.2W
Connector	5pin, P2.54 mm
Weight	28g
Size	37*37*25 mm

Used for Vacuum Robot, Small home appliances

CygLiDAR HD2

Horizontal FOV	2D : 110deg
	3D : H110deg,V60deg
Measurement Range	2D : <13.0M
	3D : <6.5M
Angular Resolution	2D : 0.35deg
	3D : 320 X 240
Frame Refresh Rate	2D : 20Hz
	3D : 20Hz
Distance Accuracy	< ±1%
Interface	Ethernet
Operation Voltage	12V
Operation Temperature	-30°C ~ 70°C
Power Consumption	3W
Connector	5pin, P2.54mm

With 2D/3D Dual LiDAR :SLAM and obstacle avoidance.

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Cygbot Researches sensors
that recognize environments
and
Provides information to robots
that recognize space.

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