

SINUSOIDAL

Prescriptive180A, Static Lidar Product Datasheet

Overview

Prescriptive180, is a new generation, long distance ranging Time-of-Flight module based on ST's FilghtSense technology. The module targets the need for high performance very compact optical distance measurement sensors for applications such as unmanned autonomous vehicles where low-power high performance, reduced cost ranging sensor is desired.

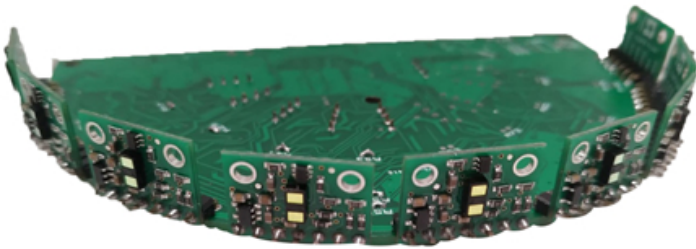


Figure I: Module overview

Features

- Fully integrated module
 - Size: 120x75mm
- Fast and accurate long distance ranging
 - 20 cm to 400 cm distance measurement
 - 20 Hz ranging frequency
- 180 degrees field of view
 - 9 distance sensor with 20 deegres FOV
- Easy integration
 - Software driver and code examples for turnkey ranging
 - Single power supply (5V)
 - Plug and play USB HID communication
 - Fully robot operating system compatible
 - Ready RVIZ configurations

Applications

- Unmanned autonomous robots (long distance and fast obstacle detection)
- Drones (landing assitance, hovering, ceiling detection)
- Smart shelves and vending machines (goods inventory monitoring)
- Smart bulding and smart lighting (people detection, gesture control)
- Sanitary (robust user detection whatever the target reflectance)
- Robot operating systems practices

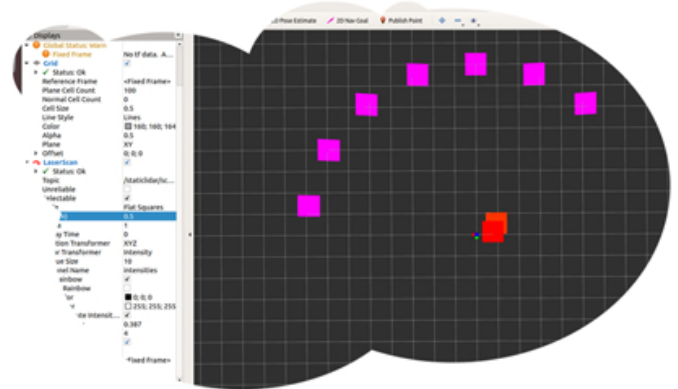


Figure II: RVIZ Configuration

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