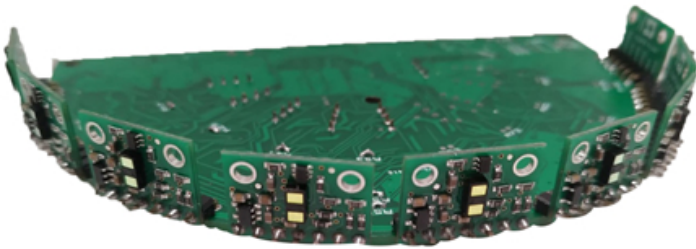


# SINUSOIDAL

## 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.



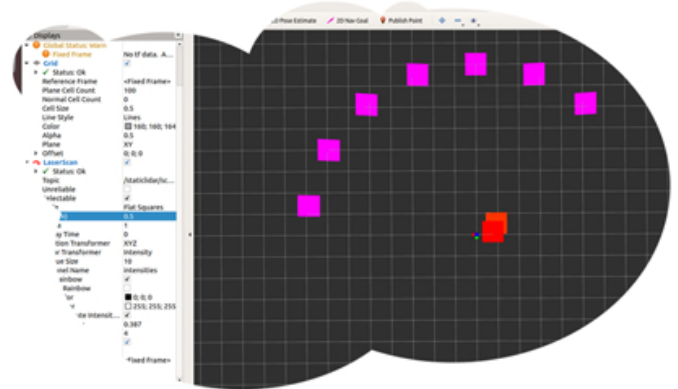
**Figure I:** Module overview

### 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

**Please visit our store**

**<https://sinusoidal.com.tr/Store.html>**