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<<PackageHeader(rplidar_python)>>
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Overview

the rplidar_python package provides a solution for RPlidar sensor usage in ros. This package also allow robot launches a 360 degree scanning map through gmapping module without twisting.

Hardware Requirements

to use rplidar_python, you should get a robot that provides odometry, like turtlebot. Also, you need a [RPlidar](#) sensor. Here we use RPLIDAR 360 laser scanner development kit.

we use RPlidar to replace kinect sensor and we mount it in the position of kinect , thus kinect tf frame is useful for RPlidar sensor as well.

Example

to make a map by RPlidar, you should launch rplidar_gmapping_demo.launch.

```
roslaunch rplidar_python rplidar_gmapping_demo.launch
```

Nodes

rplidar_scan_ver3.py

driver for RPlidar. Automatically starts sensor and convert data stream into [sensor_msgs/LaserScan](#) type. sensor publish topic every frame, one frame contain 360 laser data.

Published Topic

/scan([sensor_msgs/LaserScan](#))

output Laser scans to create the map from

Parameters

range_min (float default 0.15)

- the min range that laser can scan

range_max (float default 6.0)

- the min range that laser can scan

frame_id (string default 'laser')

- rplidar frame

angle_max(float default pi)

- the max angle that laser can reach

angle_min(float default -pi)

- the min angle that laser can reach

angle_increment(float default -0.017453292519943295)

- angular distance between measurements

scan_time (float)

- time between scans

ranges (float[])

- range data

```
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## CategoryPackage
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