





#### **Contents**

Create YDLIDAR ROS driver package	2
Run YDLIDAR ROS driver package	
YDLIDAR coordinate system	
Revision	
REVISIUI	ز

### Create YDLIDAR ROS driver package

(1) Switch your computer to the src directory of a ROS workspace and replace catkin\_ws with your ROS workspace.

```
$cd ~/catkin_ws/src
```

(2) Clone the ydlidar project into the src directory under it.

```
$git clone https://github.com/YDLIDAR/ydlidar
$cd ..
```

(3) Compile and generate ydlidar\_node and ydlidar\_client.

```
$catkin_make --pkg ydlidar
```

# **Run YDLIDAR ROS driver package**

(1) Create a YDLIDAR serial port alias [/dev/ydlidar].

```
$roscd ydlidar/startup
$sudo chmod 0777 *
$sudo sh initenv.sh
```

(2) Open lidar.launch and change the baud rate corresponding to different types of Lidar. The following is the configuration of X4.



Note 1: Baud rate: G4: 230400 X4: 128000 G6: 512000

Note 2: Re-plugging the USB takes effect, after creating an alias

Two ways to run the YDLIDAR ROS driver package.

(1) Run ydlidar\_node and rviz

```
$roslaunch ydlidar lidar_view.launch
###Lidar scan results are visible in rviz
```

(2) Run ydlidar\_node and ydlidar\_client

```
$roslaunch ydlidar lidar.launch
$rosrun ydlidar ydlidar_client
###Lidar data output can be seen at the terminal
```

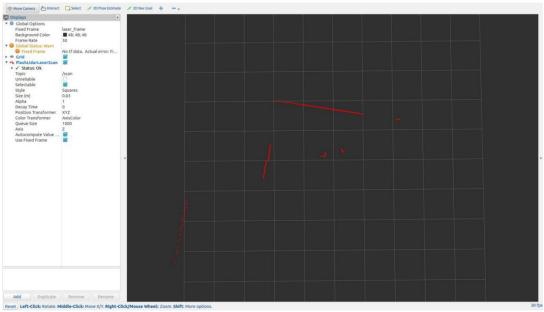


Fig. 1 YDLIDAR RVIZ display



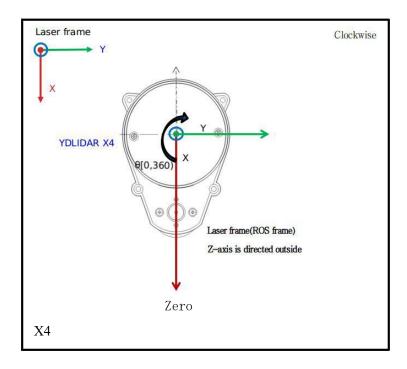
```
/**
// was a second of the sec
```

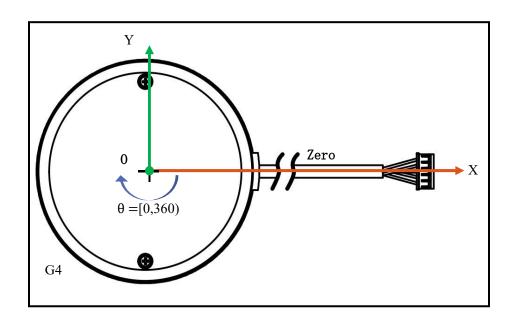
Fig. 2 YDLIDAR Terminal display

## **YDLIDAR** coordinate system

YDLIDAR rotates in the clockwise direction. SDK data output is left-handed data with distance and angle information, ydlidar.

The ROS driver package output has converted it to a right-handed coordinate system output, with the first measurement data coming from the front.





# Revision

Date	Revision	Contents
2017-11-29	1.0	First written
2019-05-11	1.1	Update github link and pages, delete info. about F4