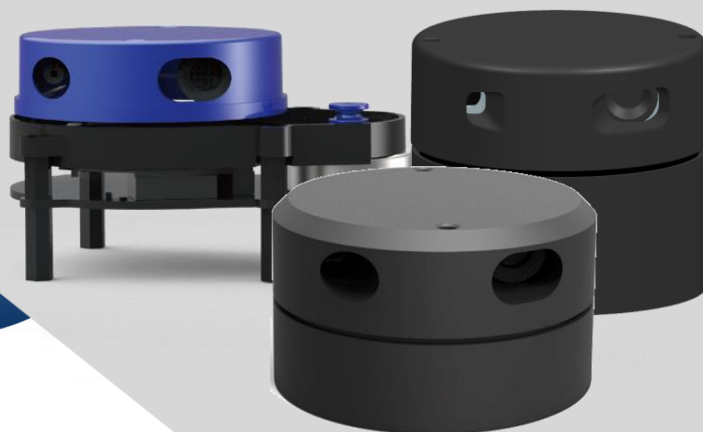




YDLIDAR SDK

测试程序说明



文档编码: 01.13.000022

解包

```
$tar -xvf ydlidar-1.2.0.tar.gz  
  
$cd ydlidar-1.2.0
```

目录结构如下

```
ydlidar-1.2.0  
├── CMakeLists.txt    --ROS 相关文件  
├── doc               --SDK 文档  
├── launch            --ROS 启动相关文件  
├── package.xml       --ROS 配置相关文件  
├── README.md         ---说明  
├── sdk               ----雷达 sdk  
├── startup           -----串口配置  
└── test              -----linux 测试程序
```

编译 LINUX 测试程序

如果你系统没有 ROS, 到 test 目录下, , 编译 Linux 版测试程序, 请执行如下操作

```
$cd test  
  
&cmake .  
  
$make
```

成功结果如下

```

yang@yang-T50Ti: ~/YdLidar/src/ydlidar-1.1.2/test
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Configuring done
-- Generating done
-- Build files have been written to: /home/yang/YdLidar/src/ydlidar-1.1.2/test
yang@yang-T50Ti:~/YdLidar/src/ydlidar-1.1.2/test$ make
Scanning dependencies of target laser_test
[ 14%] Building CXX object CMakeFiles/laser_test.dir/main.cpp.o
[ 28%] Building CXX object CMakeFiles/laser_test.dir/laser_test.cpp.o
[ 42%] Building CXX object CMakeFiles/laser_test.dir/home/yang/YdLidar/src/ydlidar-1.1.2/sdk/src/impl/linux/unix.cpp.o
[ 57%] Building CXX object CMakeFiles/laser_test.dir/home/yang/YdLidar/src/ydlidar-1.1.2/sdk/src/impl/linux/timer.cpp.o
[ 71%] Building CXX object CMakeFiles/laser_test.dir/home/yang/YdLidar/src/ydlidar-1.1.2/sdk/src/serial.cpp.o
[ 85%] Building CXX object CMakeFiles/laser_test.dir/home/yang/YdLidar/src/ydlidar-1.1.2/sdk/src/ydlidar_driver.cpp.o
[100%] Linking CXX executable laser_test
[100%] Built target laser_test
yang@yang-T50Ti:~/YdLidar/src/ydlidar-1.1.2/test$

```

进行测试

把激光数据线插入 Linux 电脑或者开发版， 查找你电脑上激光雷达的串口号，一般 X4:/dev/ttyUSB0

###测试程序使用方法

###Usage: ./laser_test <serial_port> <baudrate> <intensities>

###<serial_port> 串口号， <baudrate> 波特率， <intensities> 是否有信号质量，
以 X4 为例：

\$./laser_test /dev/ttyUSB0 128000 0

```

yang@yang-T50Ti: ~/YdLidar/src/ydlidar-1.1.2/test
Now YDLIDAR is scanning.
^CNow YDLIDAR is stopping .....
yang@yang-T50Ti:~/YdLidar/src/ydlidar-1.1.2/test$ ./laser_test /dev/ttyUSB0 128000 0
YDLIDAR C++ TEST
[YDLIDAR] running correctly ! The health status:1
[YDLIDAR] Connection established in [/dev/ttyUSB0]:
Firmware version: 1.2.0
Hardware version: 1
Model: X4
Serial: 20171009000000005
Device opened successfully.
Now YDLIDAR is scanning.
publicScanData: 26524945d , 720
: [11.229578, 10.038000]: [11.729578, 10.059000]: [15.729577, 1.697000]: [16.229578,
1.679000]: [16.729578, 1.671000]: [17.229578, 1.657000]: [17.729578, 1.635000]: [18
.229578, 1.636000]: [18.729578, 1.625000]: [19.229578, 1.622000]: [19.729578, 1.6200
00]: [20.729578, 1.619000]: [21.229576, 1.620000]: [21.729578, 1.622000]: [22.229578
, 1.623000]: [22.729576, 1.624000]: [23.229578, 1.627000]: [23.729578, 1.628000]: [2
4.229576, 1.633000]: [24.729578, 1.634000]: [25.229578, 1.643000]: [25.729576, 0.708
000]: [26.229578, 0.708000]: [26.729578, 0.712000]: [27.229578, 0.716000]: [27.72957
8, 0.720000]: [28.229578, 0.728000]: [28.729578, 0.732000]: [29.229580, 0.736000]: [
29.729580, 0.741000]: [30.229578, 0.746000]: [30.729578, 0.754000]: [31.229578, 0.76
0000]: [31.729578, 0.764000]: [32.229580, 0.769000]: [32.729576, 0.773000]: [33.2295
76, 0.783000]: [33.729576, 0.788000]: [34.229580, 0.791000]: [34.729580, 0.796000]:
[35.229580, 0.800000]: [35.729580, 0.810000]: [37.229580, 0.814000]: [37.729580, 0.8
17000]: [38.229580, 0.823000]: [41.229580, 0.386000]: [41.729580, 0.378000]: [42.229
576, 0.375000]: [42.729580, 0.369000]: [43.229580, 0.368000]: [43.729580, 0.363000]:
[44.229580, 0.361000]: [44.729580, 0.358000]: [45.229576, 0.354000]: [45.729580, 0.
354000]: [46.229580, 0.351000]: [46.729580, 0.350000]: [47.229580, 0.346000]: [47.72

```

成功打开如上图