



N10

Communication Protocol

V1.0.0 2022.08

TABLE OF CONTENT

| | | |
|-----|-----------------------------------|---|
| 1 | Overview | 1 |
| 2 | Communication Protocol..... | 1 |
| 2.1 | Serial Port Configuration | 1 |
| 2.2 | Network Port Configuration | 1 |
| 2.3 | Point Cloud Output Protocol | 1 |
| 3 | Control Lidar on PC | 2 |
| | Revision History | 4 |

1 Overview

The N10's point cloud data output and the writing and querying of calibration parameters as well as the configuration of various states are performed via the serial/network port. The point cloud output protocol is 58 bytes long, including angle, speed, distance and intensity.

2 Communication Protocol

2.1 Serial Port Configuration

Baud rate: 230400 bps

Check bits: NONE

Data bits: 8

Stop bit: 1

Data format: HEX

2.2 Network Port Configuration

Unicast Mode:

| | | |
|--------------------------------------|-------------------------|------------|
| MAC | Varies | Fixed |
| Local IP | 192.168.1.200 (Default) | Modifiable |
| Local Data Package Port Number | 2369 (Default) | Modifiable |
| Destination IP | 192.168.1.102 (Default) | Modifiable |
| Destination Data Package Port Number | 2368 (Default) | Modifiable |

Broadcast Mode:

| | | |
|--------------------------------------|-------------------------|------------|
| MAC | Varies | Fixed |
| Local IP | 192.168.1.200 (Default) | Modifiable |
| Local Data Package Port Number | 2369 (Default) | Modifiable |
| Destination IP | 192.168.1.255 (Default) | Modifiable |
| Destination Data Package Port Number | 2368 (Default) | Modifiable |

2.3 Point Cloud Output Protocol

| | | | | |
|--------|--------|--------|---------|---------|
| Byte_0 | Byte_1 | Byte_2 | Byte_3 | Byte_4 |
| A5 | 5A | Length | Speed_H | Speed_L |
| Byte_5 | Byte_6 | Byte_7 | Byte_8 | Byte_9 |

Start:

3

Revision History

| Rev. | Release Date | Revised Content | Issued/Revised By |
|--------|--------------|-----------------|-------------------|
| V1.0.0 | 2022-08-03 | Initial version | LS1286 |
| | | | |
| | | | |
| | | | |
| | | | |



Make Safer Driving, Smarter Machine, and Better Life!

Headquarters

LeiShen Intelligent System Co., Ltd.
Floor 4-5, Yunhua Times Building,
Shajing Street, Bao'an District
Shenzhen City, Guangdong Province
China
TEL: +86-0755-23242821

Factory

Building R, Dongbao Industrial Zone
Shasi Community, Shajing Street, Bao'an District
Shenzhen City, Guangdong Province
China
TEL: +86-0755-27190511

French Office

60 Rue Saint Antoine
75004 Paris,
France
TEL: 0033-(0)749044832
Eric Chen

Sales Email: sales@lslidar.com
After-Sales Mailbox: support@lslidar.com
Company Website: www.lslidar.com

*This product information is subject to change without notice.

Copyright ©2022 LeiShen Intelligent System Co., Ltd. All rights reserved.