



2D LiDAR Bank Setting Software

OForge

User Manual

This manual is applicable to LR-1B、LR-1BS

Please read this user manual for best product performance before using the product.
Be sure to keep this manual properly for future reference.

OFOMEN-1B/1BS-202012

目录

1. Software Installation	1
2. Network Configuration	1
3. Software interface	2
3.1. Menu composition and menu options	2
4. Software usage	3
4.1. Connect the LiDAR	3
4.2. Define collision avoidance area Bank	3
4.3. Introduction of LiDAR Info interface.....	5

1. Software Installation

Software operating environment:

- Windows 7, Windows 8 or Windows 10
- No less than 2G memory capacity
- At least 100M free hard disk space

Points for attention:

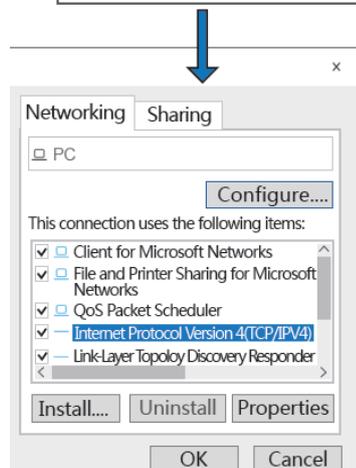
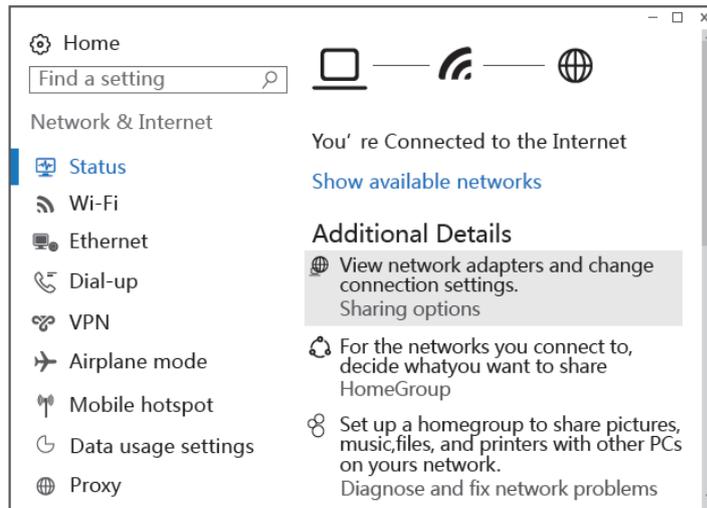
1. The Windows OS firewall must authorize the UDP communication of Oforge
2. Ensure that the installation path is in English characters, Avoid software adaptation failures caused by non ASCII characters

2. Network Configuration

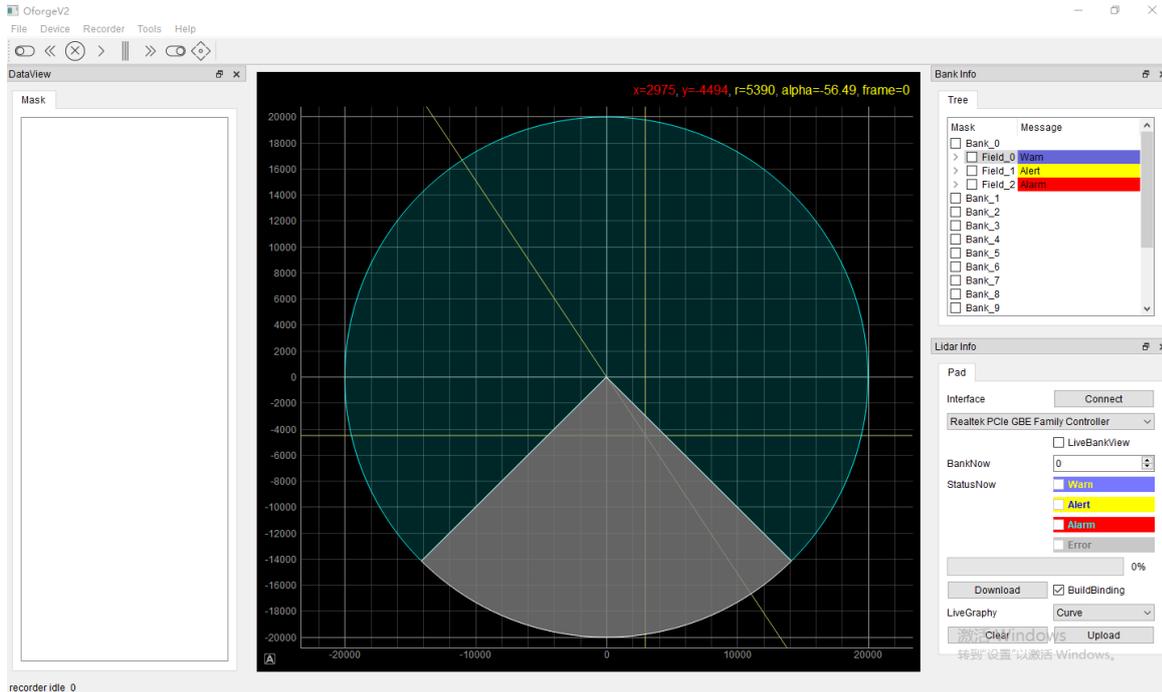
The communication between LiDAR and computer adopts Ethernet medium; Using UDP protocol; The factory default is static IP and port.

Basic communication parameters:

LiDAR IP	192.168.1.100(default)	Allow editing
Host IP	192.168.1.10(default)	Allow editing
Host Port	2368(default)	Allow editing
Netmask	255.255.255.0	Allow editing
Gateway	192.168.1.1	Allow editing



3. Software interface



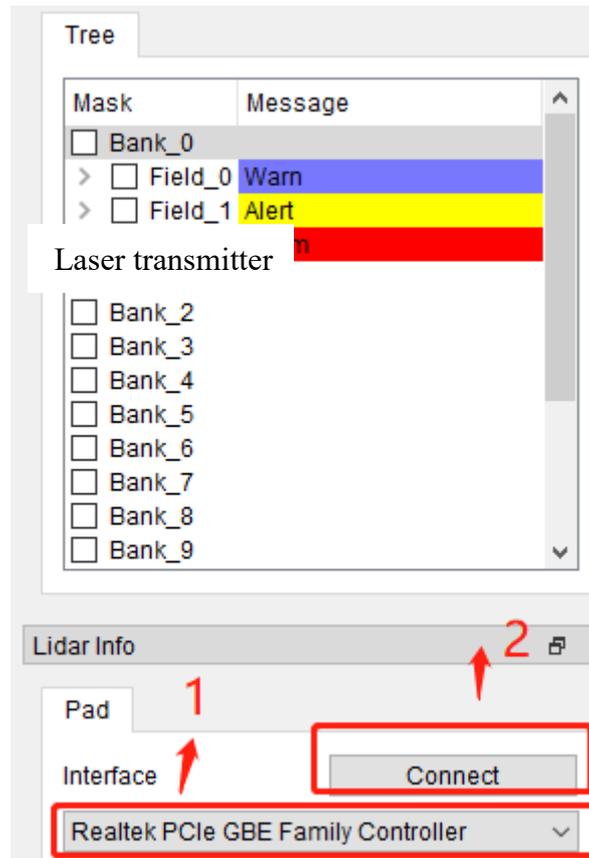
3.1. Menu composition and menu options

File	
OpenMaskFile	Open the “Bank Mask File“ of the LiDAR
SaveMaskFile	Save the “Bank Mask File” of local disk
Device Select LiDAR device model	
Add	Add new LiDAR device model
Remove	Remove LiDAR device model
LiDAR-1, LiDAR-2, LiDAR-3, Preinstall LiDAR model	
Tools	
Editing Table	Show the data table currently being editing
BankInfo	Show the Bank info
LiDARInfo	LiDAR basic information
LiDARParameter	LiDAR Parameter , After modifying the IP, you need to restart the LiDAR to take effect
LiDARIPdiscover	Get the IP address of the initialization LiDAR. Firmware support is required.
Help	
About	About software version
Language	Switch language

4. Software usage

4.1. Connect the LiDAR

1. Select the local network adapter connected to the LiDAR
2. Click “connect”



4.2. Define Bank collision avoidance area

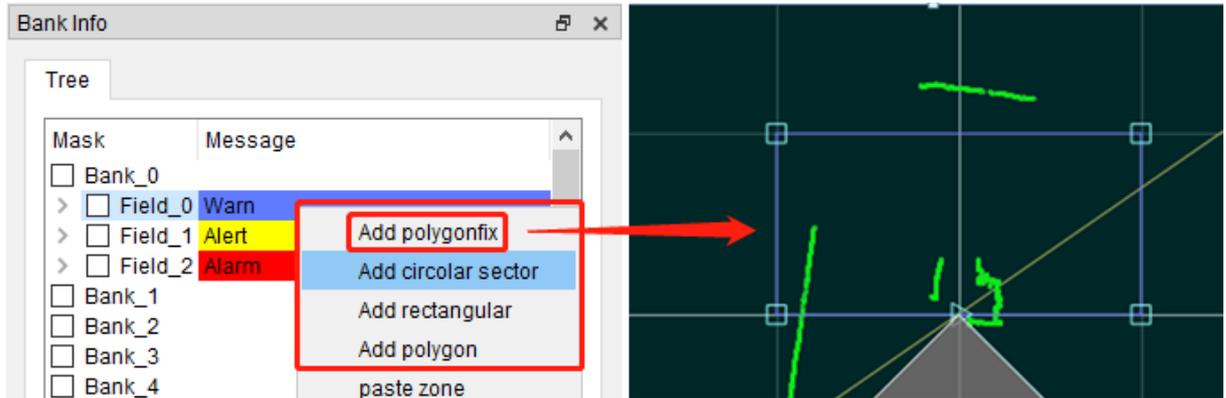
LiDAR can define 16 Bank records. Using one of 16 default field sets, each with 3 predefined field. Which can be activated by checking.

1. How to create a Bank records

Select a Bank, Right-click on field will shown below; In the right-click menu, select the new Bank field graphic style.

Predefined area graphic styles:

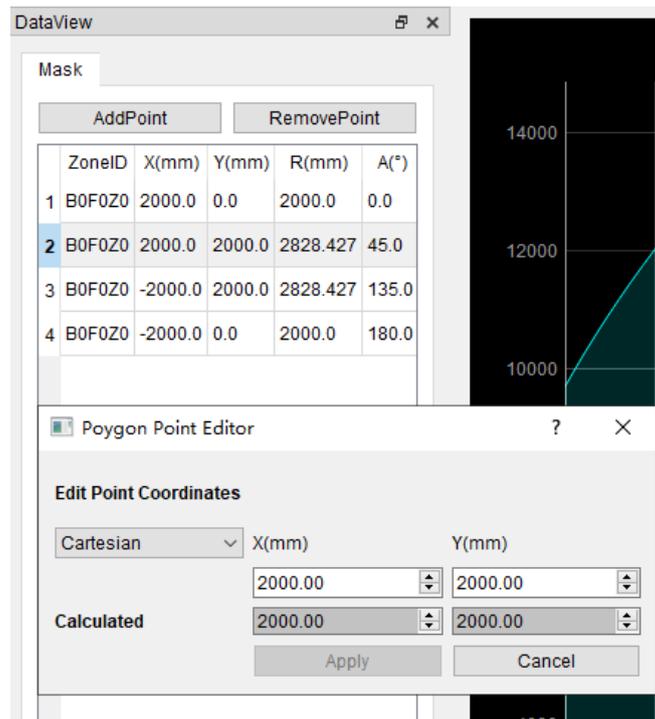
Polygonfix	A polygon fixed starting point is the LiDAR origin
Circular Sector	A Circular Sector fixed starting point is the LiDAR origin
Rectangular	A Rectangula fixed starting point is the LiDAR origin
Polygon	Freeform polygon with unlimited start point



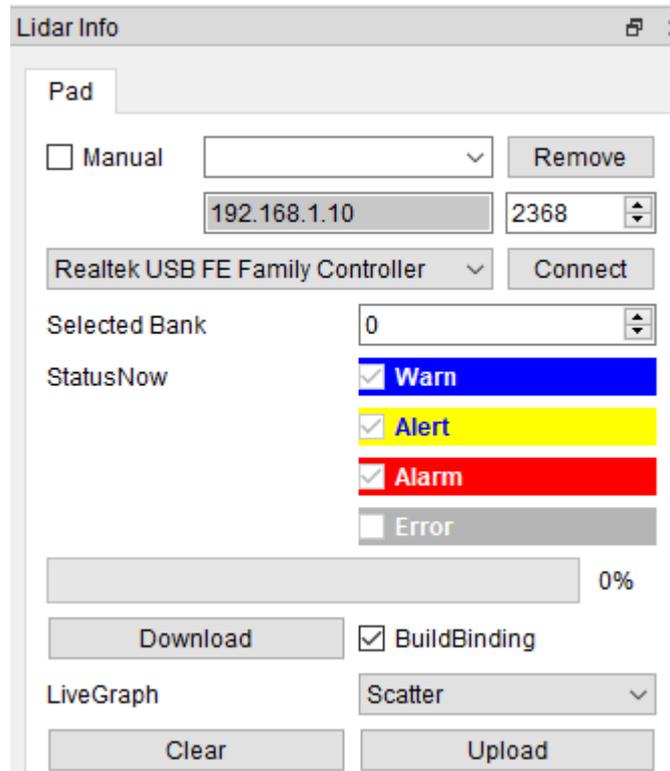
2. Edit Bank field graphic style

Any Bank field graphic style has several field points and connected lines. Drag and drop field points to change the size, shape and location of the graph.

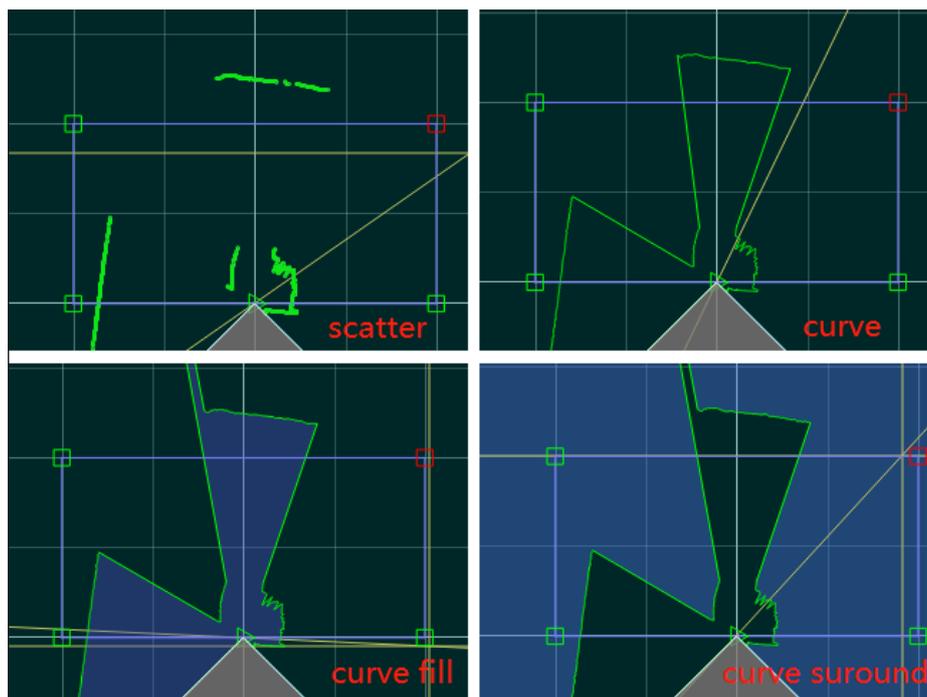
- 1) Double click on the line to add an field point
- 2) Right click **“Remove handle”** on the field point -- delete the point
- 3) In the **“DataView”** view on the right, the specific values of all current anchor points are displayed. Double click the record to fine tune the values



4.3. Introduction of LiDAR Info interface



1. Selected Bank
Displays the Bank field area number currently in effect.
2. StatusNow
Displays the status of the security level area in effect
3. Download
Download the currently set Bank area graphic style to the LiDAR internal memory
4. BuildBinding
When downloading, build the basic data of the Bank area
5. LiveGraph
Display of point cloud style in real time (scatter , curve, curve fill, curve surround)



6. Upload

Upload the graphic data of Bank area in the internal memory of LiDAR to the Oforge interface for display.



Official WeChat

Regarding changes in specifications, etc., without notice!

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