



**Lixel L2 Pro**  
**Precision Redefined**

# Lixel L2 Pro

## Precision Redefined

The new Lixel L2 Pro integrates LiDAR, visual, and IMU modules with AI, achieving breakthroughs in real-time data quality and usability. It's real-time point cloud data that rivals post-processed quality post-processed quality, ushering in the “zero post-processing era” for SLAM devices.



1mm  
Point cloud  
spacing



1cm<sup>[1]</sup>  
Relative  
accuracy



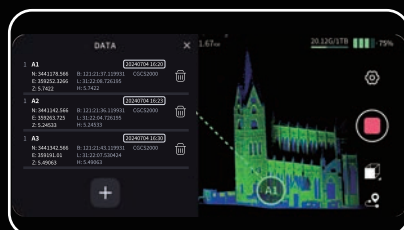
3cm<sup>[2]</sup>  
Real-time  
absolute accuracy



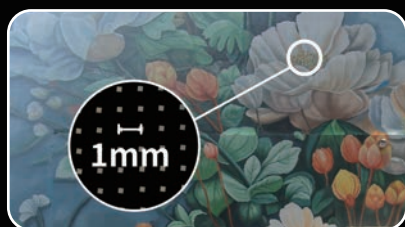
Real-time  
true color  
point cloud



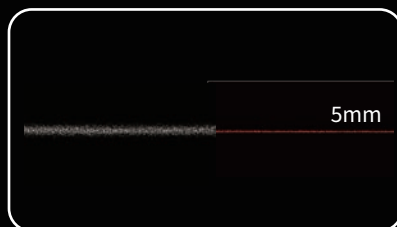
Real-time data comparable to post-processing quality  
direct output for immediate mapping and modeling



Real-time absolute accuracy of 3cm



Exclusive LixelUpSample™ point cloud algorithm  
denser point clouds, sharper detail



5mm point cloud thickness  
enhanced precision for mapping and line drawing

[1] The distance between two points is less than 100 meters

[2] The disconnection distance of the control point/RTK is less than 100 meters.

# Industry Applications



Topographic Surveying



Engineering



Inspection and Maintenance



Construction



Agricultural and Forestry



Film and Game Production

## Software

PC



LixelStudio

- All-in-one 3D point cloud processing software
- Seamless viewing, editing, and processing
- Industry plugins

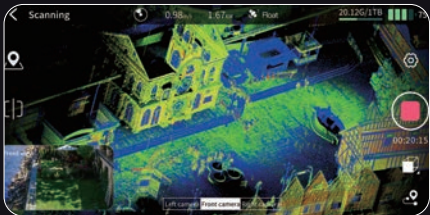


APP



LixelGO

- Mobile-controlled workflow
- Real-time preview of collected data
- Monitor device status at a glance



# Specifications



## System Parameters

|                           |                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Weight                    | 1.7kg (without battery)                                                                                                    |
| Size <sup>[1]</sup>       | 180mm×130mm×400mm                                                                                                          |
| Outer Casing              | Industrial-grade Aluminium                                                                                                 |
| Power Consumption         | <30W                                                                                                                       |
| Interfaces                | USB 3.1 Gen2                                                                                                               |
| Storage                   | 1T SSD                                                                                                                     |
| Continuous Operation Time | 90 min                                                                                                                     |
| Wireless                  | Supports WiFi, Bluetooth:<br>802.11a/b/g/n/ac,<br>2.4G Wifi 2412-2472MHz<br>5G2 Wifi 5180-5240MHz<br>5G8 Wifi 5745-5825MHz |

## Environment

|                       |                            |
|-----------------------|----------------------------|
| Operating Temperature | -20°C~50°C<br>-4°F - 122°F |
| IP Rating             | IP54                       |

## Functions

|                      |           |
|----------------------|-----------|
| Visual Positioning   | Supported |
| Real-time RGB Fusion | Supported |
|                      | Supported |

## Output

|                     |           |
|---------------------|-----------|
| Point Cloud Formats | .las .ply |
| Image Formats       | .jpg      |

## Accessories

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Backpack with Stabilizing Arm | Dimensions: 60cm×60cm×15cm<br>Weight: 2.5KG            |
| Backpack with Padding         | Dimensions: 55cm×35cm×25cm<br>Weight: 2.7KG            |
| Shipping case                 | Dimension: 42cm*34cm*18cm<br>Weight with System: 6.6kg |
| 2m Extension Pole             | Supported                                              |
| Mobile Phone Mount            | Supported                                              |
| Control Point Plate           | Supported                                              |

[1] With handheld battery and GCP collection plate; [2] Refers to real-time/processed data. No RTK signal loss more than 100m  
[3] Distance between two points is less than 100m; [4] Two scans both with full RTK signal  
[5] Horizontal thickness of the point cloud within 10m of the travel path

## Accuracy

|                                                             |           |
|-------------------------------------------------------------|-----------|
| Absolute Vertical/Horizontal Accuracy (RMSE) <sup>[2]</sup> | 3cm       |
| Real-time Relative Accuracy (RMSE) <sup>[3]</sup>           | 2cm       |
| Processed Relative Accuracy (RMSE) <sup>[3]</sup>           | 1cm       |
| Repeat Accuracy(RMSE) <sup>[4]</sup>                        | 2cm       |
| Point Cloud Thickness <sup>[5]</sup>                        | 0.5cm     |
| LixelUpSample™                                              | Supported |

## LiDAR

|                    |                                      |
|--------------------|--------------------------------------|
| Operating Range    | 0.5m~120m<br>0.5m~300m               |
| LiDAR Sensor       | Class 1 / 905nm                      |
| Sensor FOV         | 360°×270°                            |
| Scanning Frequency | 320,000 points/s<br>640,000 points/s |

## Camera for Panoramic Images

|              |                 |
|--------------|-----------------|
| Resolution   | 2×48 Megapixels |
| Focal Length | 2mm             |
| Aperture     | F/2.0           |
| CMOS         | 1/2"            |
| Shutter      | Rolling shutter |
| FOV          | 190°×190°       |

## Camera for Visual Positioning

|            |                |
|------------|----------------|
| Resolution | 1×1MP          |
| Shutter    | Global shutter |
| FOV        | 190°×119°      |

## Battery

|          |        |
|----------|--------|
| Voltage  | 14.4V  |
| Capacity | 46.8wh |

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