Lixel L2 Pro
Precision Redefined

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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 [1]
Relative accuracy

3cm [2]
Real-time absolute accuracy

Real-time true color point cloud

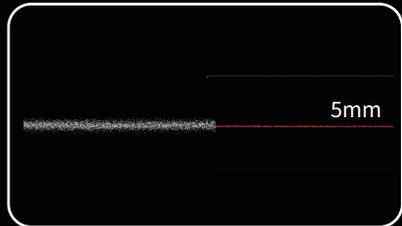L2 — post-processing | L2 Pro — real-time

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
- Viewing, editing, processing, industry plugins
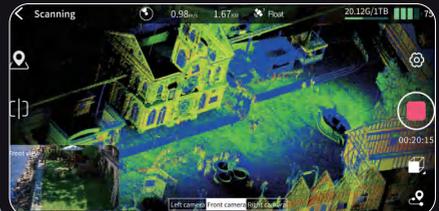- Support for .las .ply .e57

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 [1]	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: 802.11a/b/g/n/ac, 2.4G Wifi 2412-2472MHz 5G2 Wifi 5180-5240MHz 5G8 Wifi 5745-5825MHz

Environment

Operating Temperature	-20℃~50℃ -4°F - 122°F
IP Rating	IP54

Functions

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

Output

Point Cloud Formats	.las
Image Formats	.jpg

Accessories

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

Accuracy

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

LiDAR

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

Camera for Panoramic Images

Camera Resolution	2×48 Megapixels
Panoramic Image Resolution	Max 56MP
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

[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

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