XGRIDS

Lixel L2 Pro

Precision Redefined

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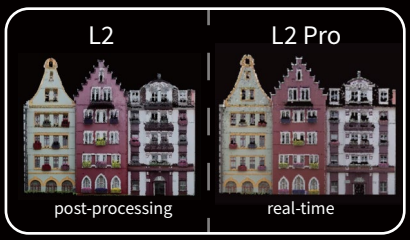
The new Lixel L2 Pro integrates LiDAR, visual, and IMU modules with AI , achieving breakthroughs in real-time data quality and usability. It's real-time point cloud data that rivals post-processed quality post-processed quality, ushering in the “zero post-processing era” for SLAM devices.

1mm
Point cloud spacing

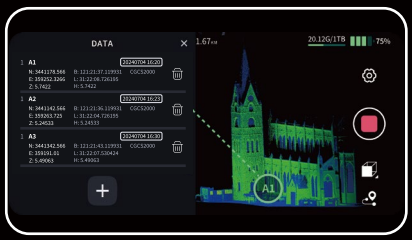
1cm [1]
Relative accuracy

3cm [2]
Real-time absolute accuracy

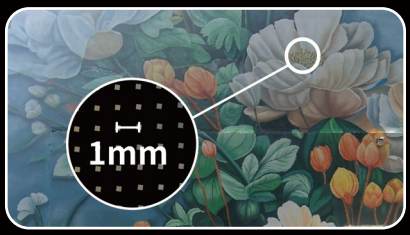
Real-time true color point cloud



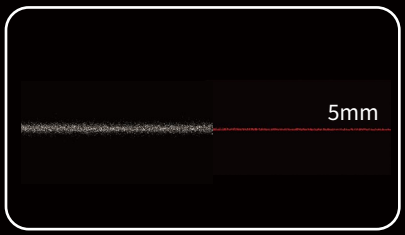
Real-time data comparable to post-processing quality
direct output for immediate mapping and modeling



Real-time absolute accuracy of 3cm



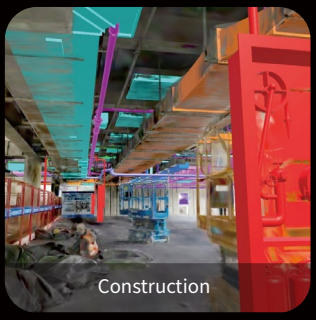
Exclusive LixelUpSample™ point cloud algorithm
denser point clouds, sharper detail



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



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 [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, 2.4~2.4835GHz and 5.15~5.85GHz

Environment

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

Functions

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

Output

Point Cloud Formats	.las .ply
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

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

【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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Company Address: XGRIDS LIMITED, SHOP 185 G/F, HANG WAI IND CTR, NO 6 KIN TAI ST TUEN MUN NT, HONGKONG
Company Website: WWW.XGRIDS.COM
Company E-mail：enterprise@xgrids.com