

XGRIDS



Lixel L2 Pro
Precision Redefined

Lixel L2 Pro

Precision Redefined

The Lixel L2 Pro fuses LiDAR, visual sensors, and IMU with AI to deliver post-processed quality point clouds in real-time. This breakthrough eliminates traditional processing delays, giving you professional results directly in the field while setting a new standard for SLAM efficiency.



1mm
Point cloud
spacing



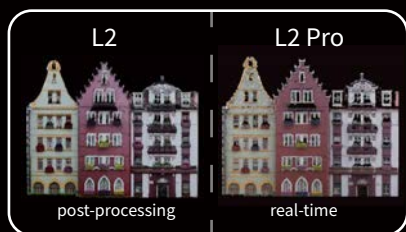
1cm^[1]
Relative
accuracy



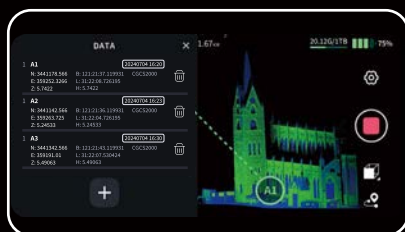
3cm^[2]
Real-time
absolute accuracy



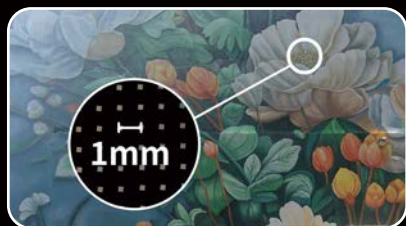
Real-time
true color
point cloud



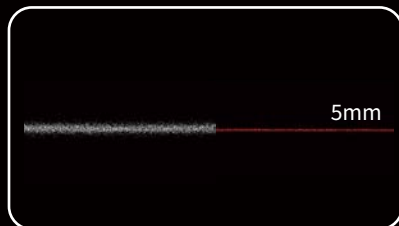
Instant results matching post-processing quality.
Field-ready without waiting



Real-time absolute accuracy of 3cm



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



5mm point cloud thickness for precise mapping
and accurate line extraction

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

[2] RTK signal or control points must remain within 100 meters to maintain precise positioning accuracy.

Industry Applications



Topographic Surveying



Engineering



Inspection and Maintenance



Construction



Agricultural and Forestry



Film and Game Production

Software

PC



LixelStudio

- Complete point cloud workflow: capture, edit, process
- Industry-standard file compatibility (.las, .ply) and plugins
- Advanced visualization and analysis tools



APP



LixelGO

- Control scanning directly from your smartphone
- Monitor real-time data collection progress
- Instant point cloud quality verification



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°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
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

[1] Handheld battery with GCP collection plate; [2] RTK signal maintained within 100m range; [3] Points spaced less than 100m apart; [4] Full RTK signal for both scans; [5] Horizontal thickness within 10m of travel path

Accuracy

Absolute Vertical/Horizontal Accuracy (RMSE) ^[2]	3cm
Real-time Relative Accuracy (RMSE) ^[3]	2cm
Processed Relative 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

Follow Us



LinkedIn



YouTube



Facebook



X

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

*Copyright belongs to Shenzhen XGRIDS Innovation Technology Co., Ltd. Reproduction is authorized only with permission.