α-GEO

Lixel L2 Pro

Precision Redefined

1mm
Point cloud
spacing

1cm [1]
Relative
accuracy

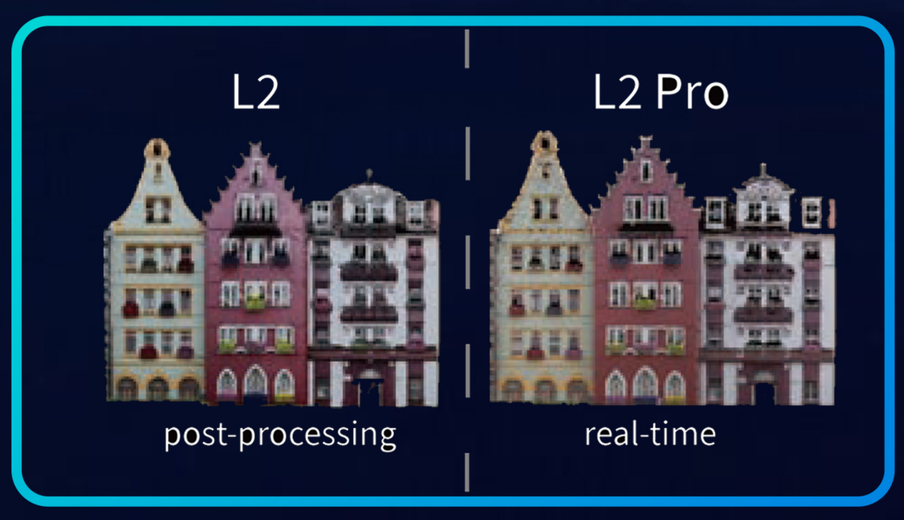
3cm [2]
Real-time
absolute accuracy

Real-time
true color
point cloud

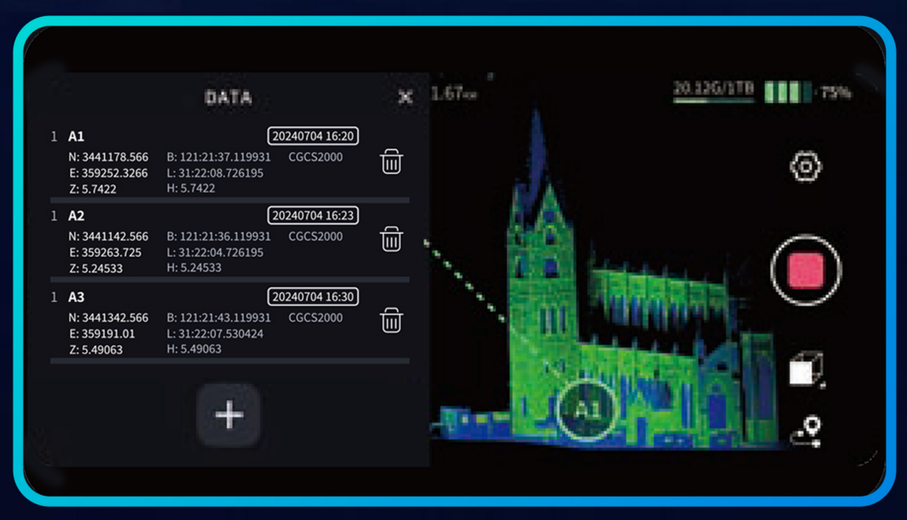
Lixel L2 Pro »»

The new LixelL2 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, ushering in the “zero post-processing era” for SLAM devices.

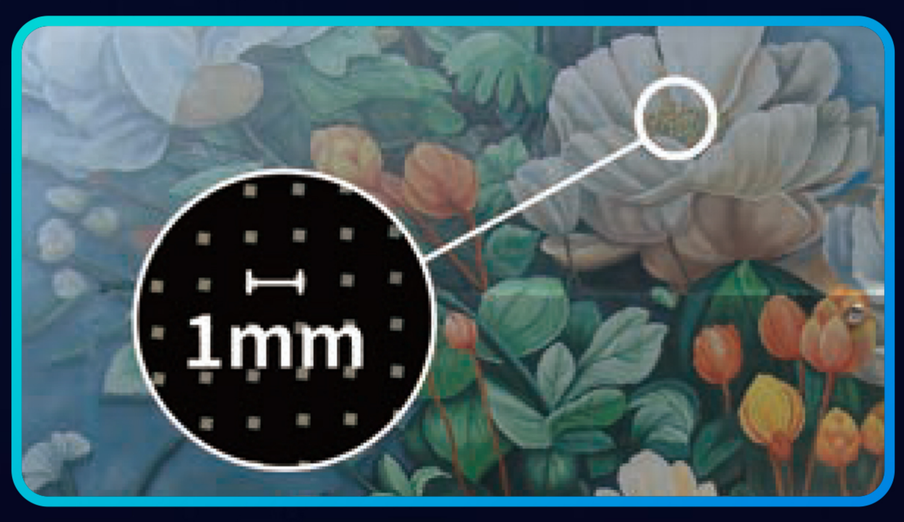
Features »»



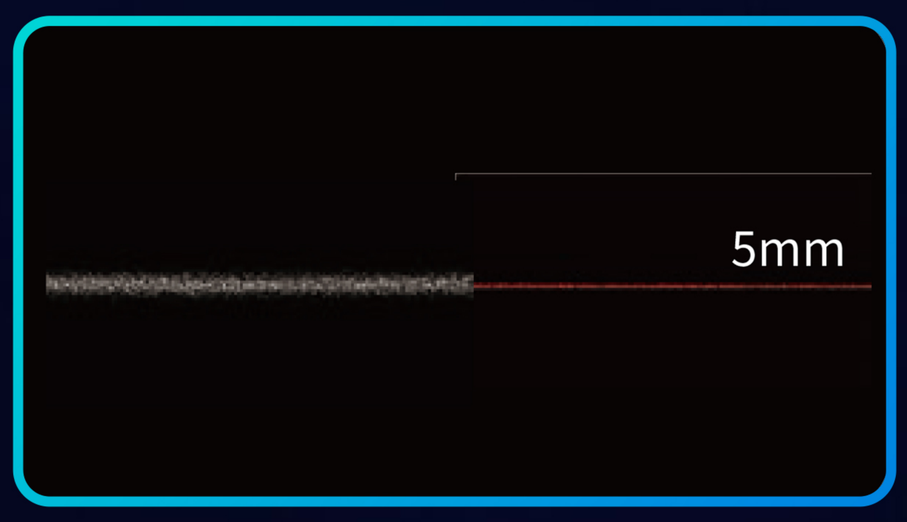
Real-time data comparable to post-processing quality
direct output for immediate mapping and modeling



Real-time absolute accuracy of 3 cm



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



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

APPLICATION SCENARIOS

Topographic Surveying

Construction

Engineering

Agricultural and Forestry

Inspection and Maintenance

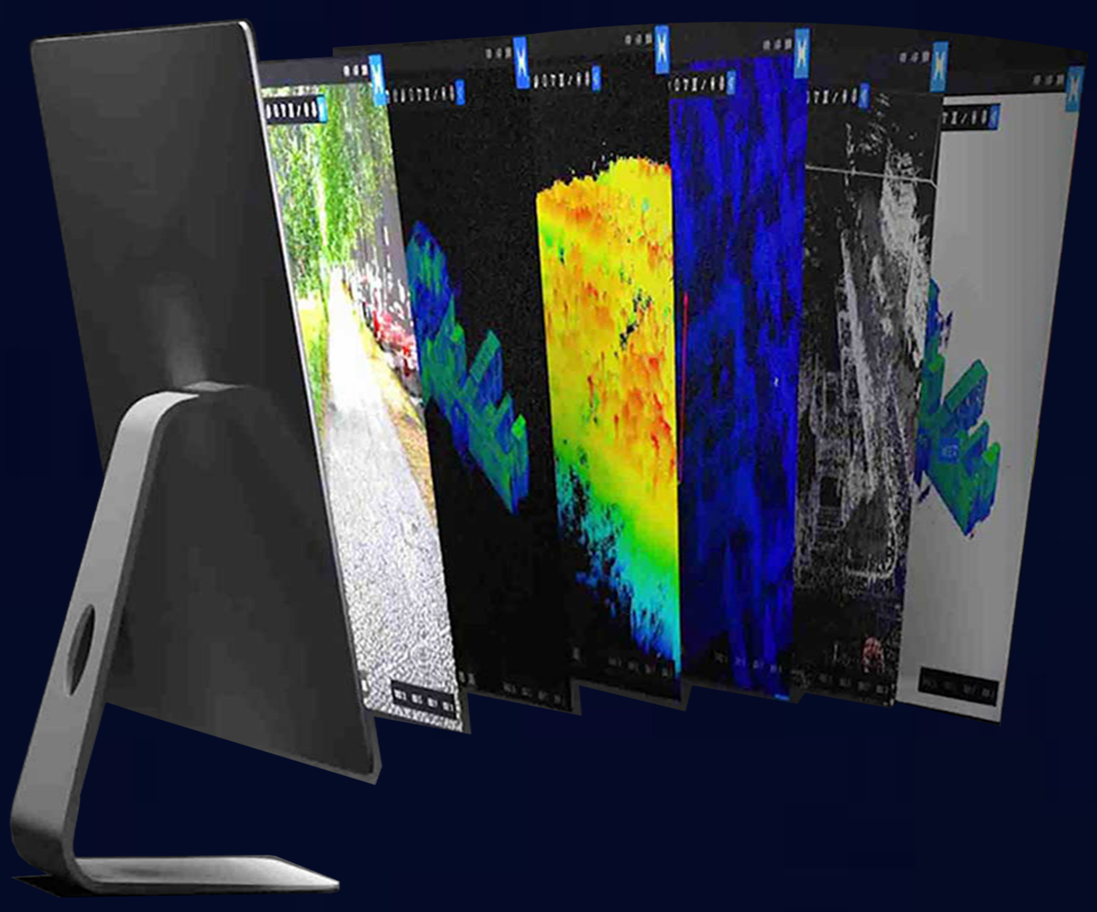
Film and Game Production

Software

APP

LixelGO

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



PC

LixelStudio

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

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	90min
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 .ply
Image Formats	.jpg

Accessories

Backpack with Stabilizing Arm	Dimensions: 60cmx60cmx15cm Weight: 2.5kG
Backpack with Padding	Dimensions: 55cmx35cmx25cm 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°x270°
Scanning Frequency	320,000 points/s 640,000 points/s

Camera for Panoramic Images

Resolution	2x48 Megapixels
Focal Length	2mm
Aperture	F/2.0
CMOS	1/2″
Shutter	Rolling shutter
FOV	190°x190°

Camera for Visual Positioning

Resolution	1x1MP
Shutter	Global shutter
FOV	190°x119°

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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