



Lixel L2 Pro
Precision Redefined

3D scanning services and scanner rental, Singapore.

Volumet runs reality-capture projects end to end — and rents the same equipment to teams who run their own. This document is the manufacturer's; we host it for our rental and project clients.

CAPTURE & DOCUMENTATION SERVICES

- **3D laser scanning** — reality capture of sites, buildings and interiors.
- **As-built documentation** — floor plans, elevations, sections, RCPs.
- **Scan-to-BIM** — point cloud to Revit at a specified LOD.
- **Drone & LiDAR aerial** — mapping, photogrammetry, inspection.
- **Digital twins & 3DGS** — virtual tours and Gaussian splat models.

EQUIPMENT RENTAL & SALES

- **XGRIDS Lixel K2** — flagship handheld SLAM LiDAR.
- **Lixel K1 · L2 Pro** — entry and long-range handheld.
- **PortalCam** — 3D Gaussian splatting camera.
- **Matterport Pro3** — virtual tours and digital twins.
- **Leica BLK360 G2 · RTC360** — tripod terrestrial scanning.
- **Trimble X12** — high-end survey-grade scanning.

About this document. This is the Lixel L2 Pro brochure, published by XGRIDS and hosted by Volumet for our rental and project clients. Volumet is an independent rental and services provider and is not affiliated with, endorsed by, or an agent of the manufacturer. Specifications are the manufacturer's own and may change without notice.

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Equipment collection & return

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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^[1]
Relative
accuracy



3cm^[2]
Real-time
absolute accuracy



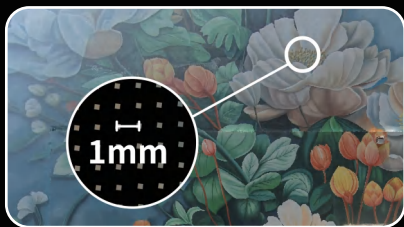
Real-time
true color
point cloud



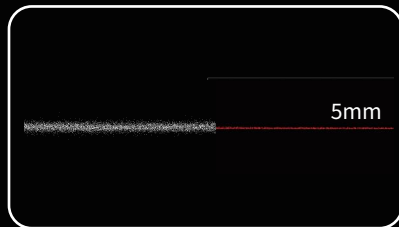
Real-time data comparable to post-processing quality
direct output for immediate mapping and modeling



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



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

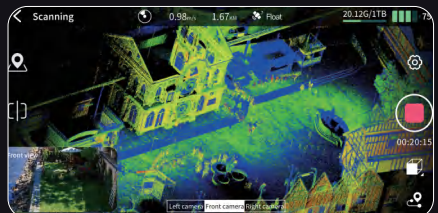


APP



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°C~50°C -4°F - 122°F
IP Rating	IP54

Functions

Visual Positioning	Supported
Real-time RGB Fusion	Supported
	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] 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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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