



Lixel K1
Compact Yet Powerful

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 Kity K1 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 K1

Lixel K1 is XGRIDS' compact handheld scanner. Integrating 36MP panorama cameras and 360 ° LiDARs within its body, it generates cm-level colored models for professionals and 3d hobbyists, offering convenient scanning and reconstruction experience.



1kg



color point cloud
in real-time



360°
scanning

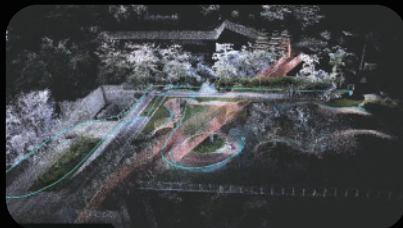


convenient
operation



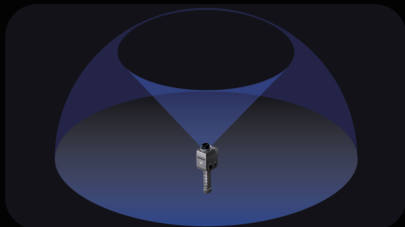
Compact and Lightweight

With a 1kg (with battery) aluminum alloy body, K1 highly Integrated panoramic vision and LiDAR.



Real-Time Color Point Cloud, Delicate Presentation

36 million pixels imaging provides exquisite real-time true-color point clouds.



Panoramic Capture, No Omissions

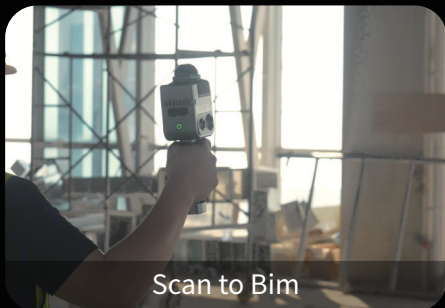
360° x 360° true panoramic vision, 360° laser horizontal scanning field.



Convenient Operation, Collect as You Wish

Its low learning cost makes professional 3D data collection and modeling extremely simple.

Application Scenarios



Scan to Bim



Digital Twins



Filming & Gaming



Culture & Tourism

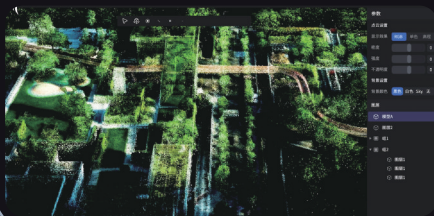
Software

PC



LixelStudio

An all-in-one 3D post-processing software that offers a range of features, including point cloud viewing, editing, model generation, and post-processing.

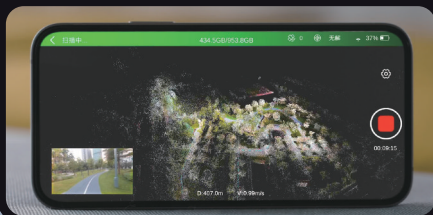


APP



LixelGO

Mobile-controlled operational workflow, real-time preview of scan results, and one-screen monitoring of device status.



Specification

Device Performance

Power input	14.4V
Power consumption	<20W
Weight	1kg
Data interface	USB3.1 Gen2
Storage Capacity	TF card 256G (Replaceable)
Connection mode	Wifi/Bluetooth
Operating temperature	-20°C~50°C
Protection level	IP54
Product shell	Navigational Aluminum
Power supply	Fast-lock battery/external power
Operating Time	1.5h
Battery capacity	28.8wh
Number of Cameras	4
Visual-Aided Positioning	Supported
APP WiFi distance	20m
RTK module	Supported

Scan Performance

Laser lines	40
Laser Class	Class1 / 905nm
Relative Accuracy	1.2cm
Absolute Accuracy	3cm
Repeat Accuracy	2cm
Horizontal Accuracy	0.015°
Working Range	0.1m~40m@10%, 70m@80%
LiDar FOV	360°* -7~-+52°
Scan mode	Mobile
Scan speed	200,000 points/s
Resume Scanning from Breakpoint	Supported

Visual Module

Camera FOV	Color panorama HDV 360°*360°
Camera resolution	5.6 million

Data & Storage

Calculating mode	Real-time calculating/ Mixed calculating
Calculating software	Lixel Studio post-processing software for Win
Point Cloud Format	.Las
Color point cloud	Supported

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