Lixel K1

Compact Yet Powerful

Lixel K1

Lixel K1 is XGRIDS' compact handheld scanner. Integrating 56MP 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.

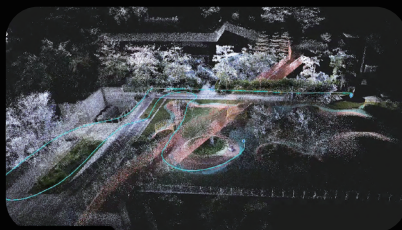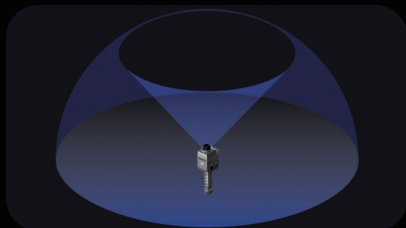| 1kg | color point cloud in real-time | 360° scanning | convenient operation |

Compact and Lightweight

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

Real-Time Color Point Cloud, Delicate Presentation

36 million pixels imaging provides exquisite real-time true-color point clouds.
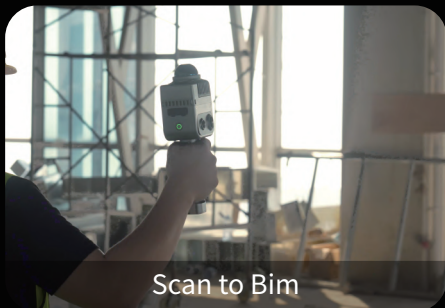
Panoramic Capture, No Omissions

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.
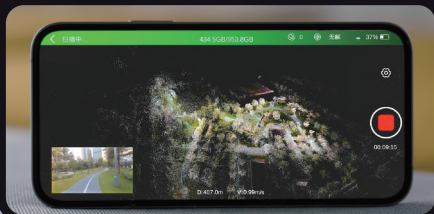

APP

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 cosumption	<20W
Weight	1kg
Data interface	USB3.1 Gen2
Storage Capacity	TF card 256G (Replaceble)
Connection mode	Wifi/Bluetooth
Operating temperature	-20℃~50℃
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

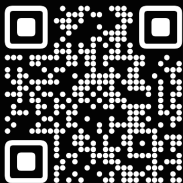|	
Camera FOV	Color panorama HDV 360°*360°
Camera resolution	56MP

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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