

 XGRIDS



LixelKity K1
Compact Yet Powerful



LixelKity K1

Lixel K1 is XGRIDS' compact handheld scanner. Integrating 48MP x 2 panoramic 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

48 MP x 2 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



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 (Replaceble)
Connection Mode	Wifi/Bluetooth
	2.4G Wifi 2412-2472MHz
	5G2 Wifi 5180-5240MHz
	5G8 Wifi 5745-5825MHz
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 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
	Supported
Resume Scanning from Breakpoint	

Visual Module

Camera FOV	Color Panorama HDV 360°*360°
Camera resolution	48MP x 2

Data & Storage

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

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