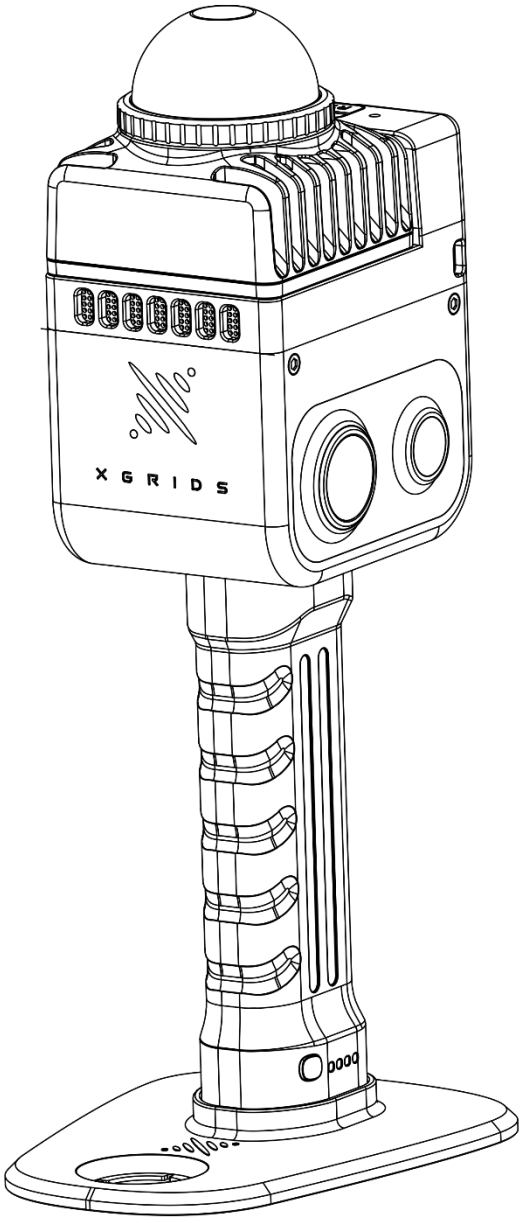


LixelKity K1

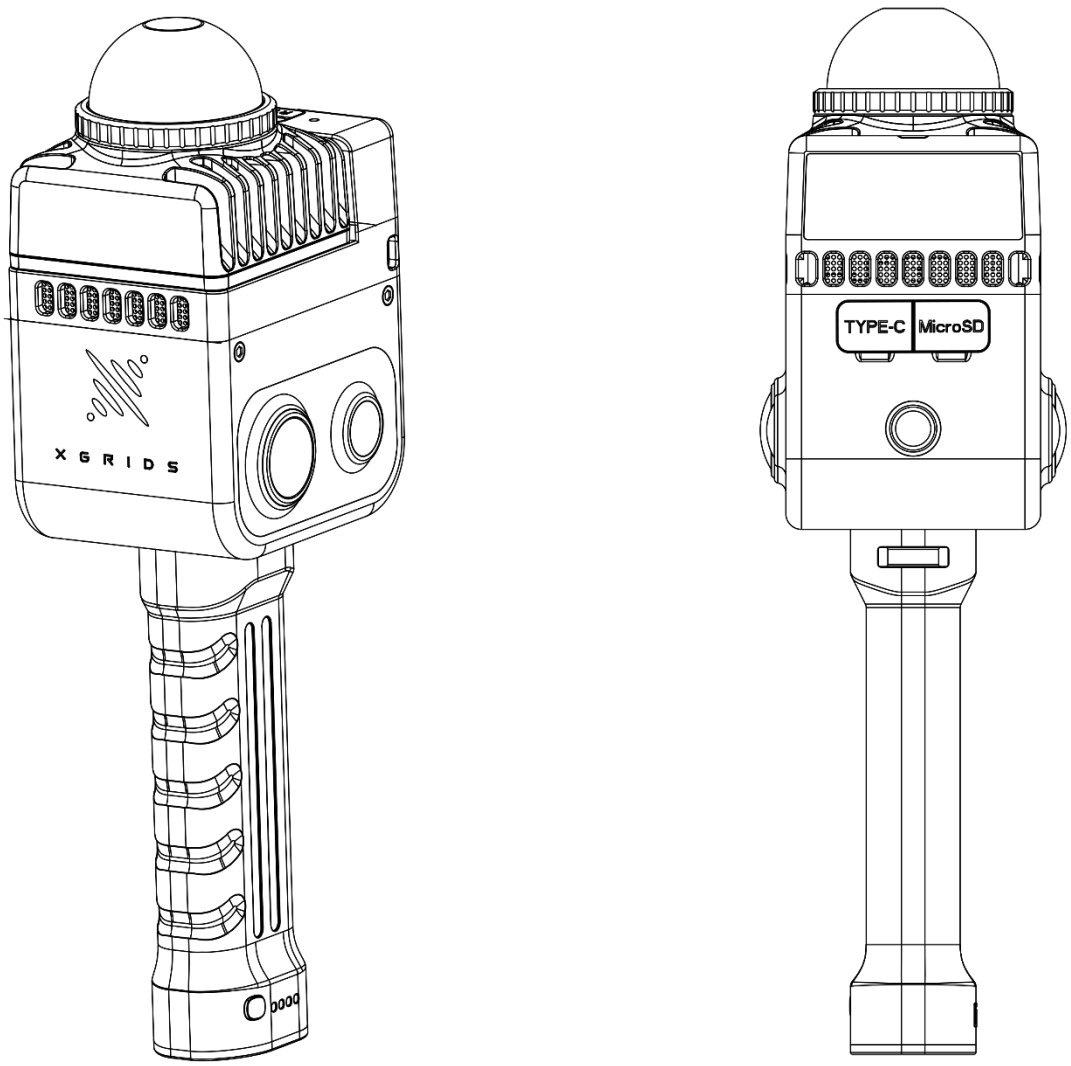
User Manual

Contents

Device Introduction

LixelKity K1 is a compact handheld scanning and modeling device newly introduced by XGRIDS. With a lightweight ＜1kg body, it integrates 56 million-pixel panoramic vision modules and a 360° LiDAR, capable of real-time generation of centimeter-level colored 3D models. Tailored for professionals, small to medium-sized businesses, and 3D enthusiasts, it offers a convenient solution for 3D capture and modeling.

LixelKity K1

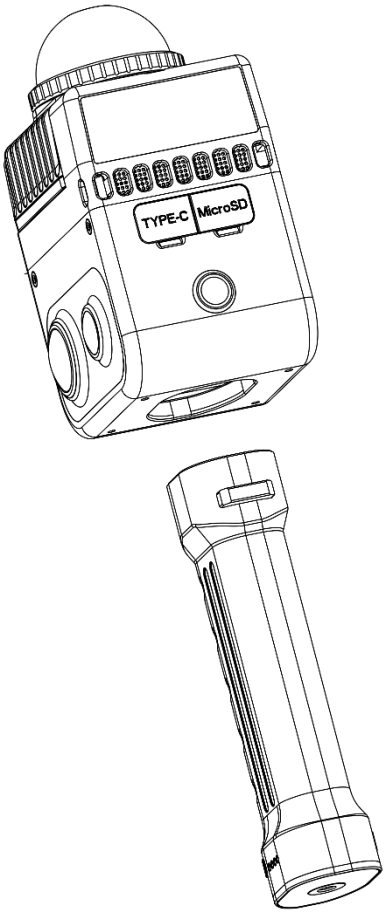


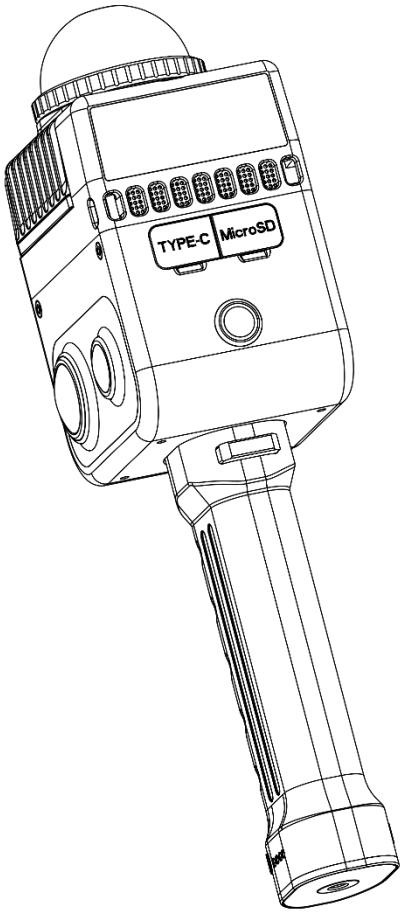
Device Operation

Battery Installation

1.Press on the button on the battery

2.Put the battery into the slot and make sure it in the right place



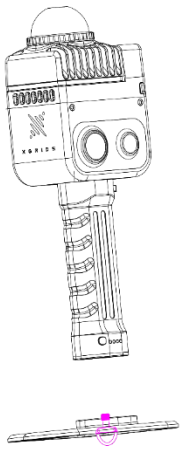


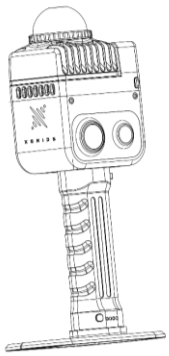
3.Release the button and make sure it was locked

※ Notes: Failure to lock the battery may cause the device to slip..

Base Installation

The bottom of the battery has a threaded hole. Screw the tripod in and place the device in a flat position.





Function Button

Function	Operation	State
Open	Long press for 4s	The indicator light turns from slow blinking blue to steady green light;
Close	Long press for 4s	Indicator light off;
Start Scanning	Double click	When the device is in standby state, double click the button. The indicator turns from steady green to blinking green at short intervals, and then to blinking green at long intervals, that is, the scan is started successfully.
Stop Scanning	Double click	While scanning, double click the button, the indicator light will change from blinking green at long intervals to blinking green at short intervals, and then steady green. The scan will be stopped successfully.

※ Notes:

1 Please put the device on the flat table before starting the scan. After starting the scan, the device can be moved for scanning only after the indicator light turns into blinking green in long intervals.

2 It takes about 10s to start scanning.

3 During the process of scanning stop, if the indicator blinks green quickly, scanned files are being stored. If the power is off at this time, files may be lost or saved incompletely.

4 After the scan is stopped, the waiting time for storing files may be long. It depends on the size of the scene being scanned.

Indicator Light Description

Blinking Light Status	Significance
None	The device is not started.
Blue light blinking slowly	The device is starting up.
Blue light normally on	USB disk mode
Green light normally on	Standby state
Green light blinking fast	The scan is being started/stopped.
Green light blinking slowly	Scanning
Yellow light normally on	The device is not activated.
Red light normally on	Serious device failure.

Data Copy Instructions

Connect the device to the computer using the provided USB cable while the device is in standby mode. Simultaneously open the USB mode on the LixelGO APP, and once the device is recognized, you can proceed with data copying.

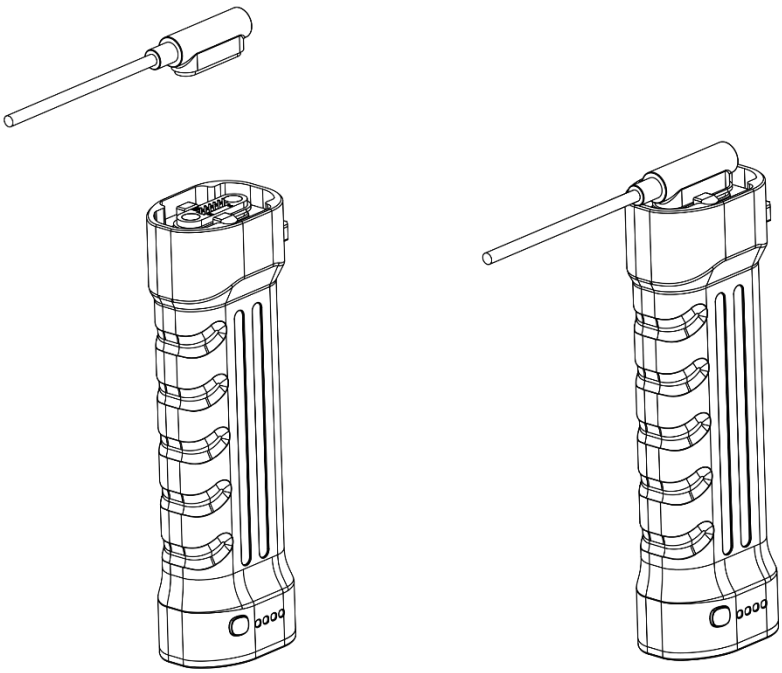
※ Notes:

1 The USB mode will automatically close after a restart.

2 After opening the USB disk mode, if you wish to continue scanning without shutting down or

disconnecting power, you need to manually close the USB disk mode.

3 The use of other USB cables may result in slow data copying or copy failure.



Battery Charging

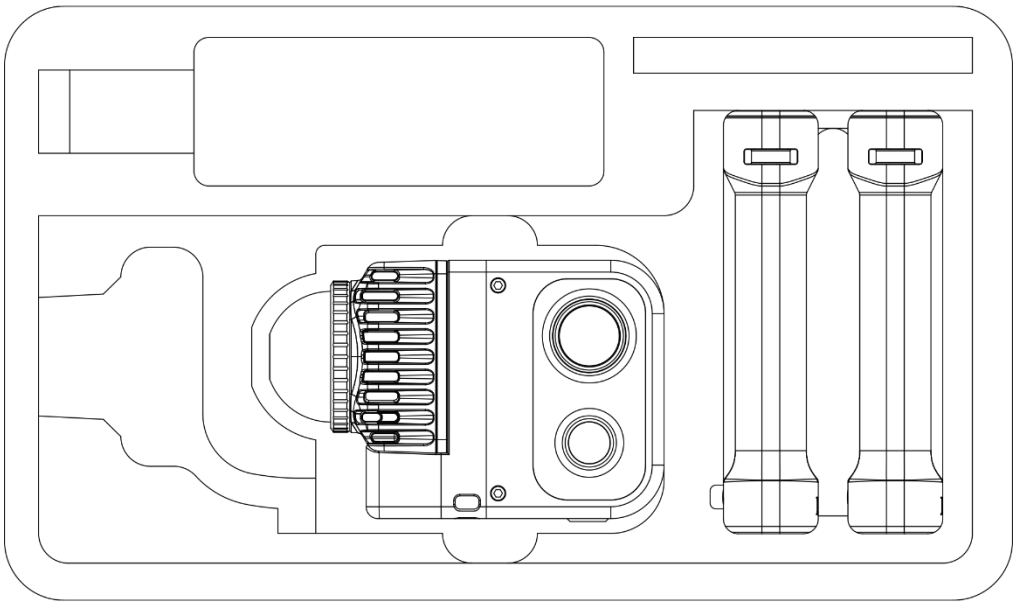
Use the provided charging cable to connect the charging adapter to the battery for charging. Charging time: Approximately 2 hours. The indicator light reflects the current battery level during the charging process, as detailed in the table below.

Battery Light	Battery Level
One green lights	0-24%
Two green lights	25%-49%
Three green lights	50%-74%
Four green lights	75%-99%

Maintenance and Care

Storage

The device is originally stored as shown in the figure below. After use, remove the battery and store it back in the designated box following the illustration.



Note: This device is a precision instrument, and failure to store it as required may cause damage.

Usage Guidelines

1.LixelKity K1 is a precision surveying device. Dropping or subjecting it to external force may damage the device, leading to abnormal operation or inaccurate precision.

2.When using the base, ensure it is securely tightened to prevent the device from falling.

3.LixelKity K1 has an IP54 waterproof rating; please be cautious of the environment and avoid

usage beyond this protection level. It is recommended to clean the device with a soft dry cloth or the provided cleaning cloth. Keep the radar and lens clean and avoid direct contact with them using your hands.

4.The device generates heat during use, avoid direct contact with the body to prevent burns.

5.Do not cover or touch the body's heat dissipation parts with body parts during use. If the device temperature becomes too high during use, it may automatically shut down.

6.When using through app connection, hold both the phone and the device with two hands to prevent dropping.

Appendix

Specifications

Category	Specs	LixelKigy K1
General Performance	Power Input	14.4V
	Power Consumption	<20W
	Weight	1kg
	Data Interface	USB 3.1 Gen2
	Storage Capacity	TF card 256G (Replaceable)
	Connection Mode	WIFI/Bluetooth
	Operating Temperature (Battery charging)	-20℃~25℃
	Operating Temperature (Normal operation)	-20℃~45℃
	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	Class 1 / 905nm
	Laser Lines	40
	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	Supported
Visual Module	Camera FOV	HDV 360°*360°
	Camera Resolution	5.6 million

CE Maintenance

1.Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

2.The product shall only be connected to a USB interface of version USB3.0.

3.EUT Operating temperature range: -20° C to 45° C .

4.Adapter：

The plug considered as disconnect device of adapter Input: AC 100-240V, 50/ 60Hz,1.5A

Output: 16.8V 2A

Declaration of Conformity

SHENZHEN XGRIDS-INNOVATION CO., LTD hereby declares that this LixelKity K1 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. This product is allowed to be used in all EU member states.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

After-sales Warranty Information

Please visit the XGRIDS official website www.xgrids.com for the latest after-sale warranty information.