



Portable AI Blue Laser
& NIR 3D Scanner



Creality Pika 3D Scanner
User Manual V1.0

Thank you for choosing the Creality Pika 3D scanner. This manual aims to help you quickly understand the basic information and scanning process of this scanner, opening up a whole new 3D scanning experience. You can visit the Creality official Wiki: <https://wiki.creality.com/3d-scanner> to get the latest "Creality Pika 3D Scanner User Manual", detailed tutorials, and videos. This manual will be continuously updated; please refer to the latest version for the most up-to-date information.

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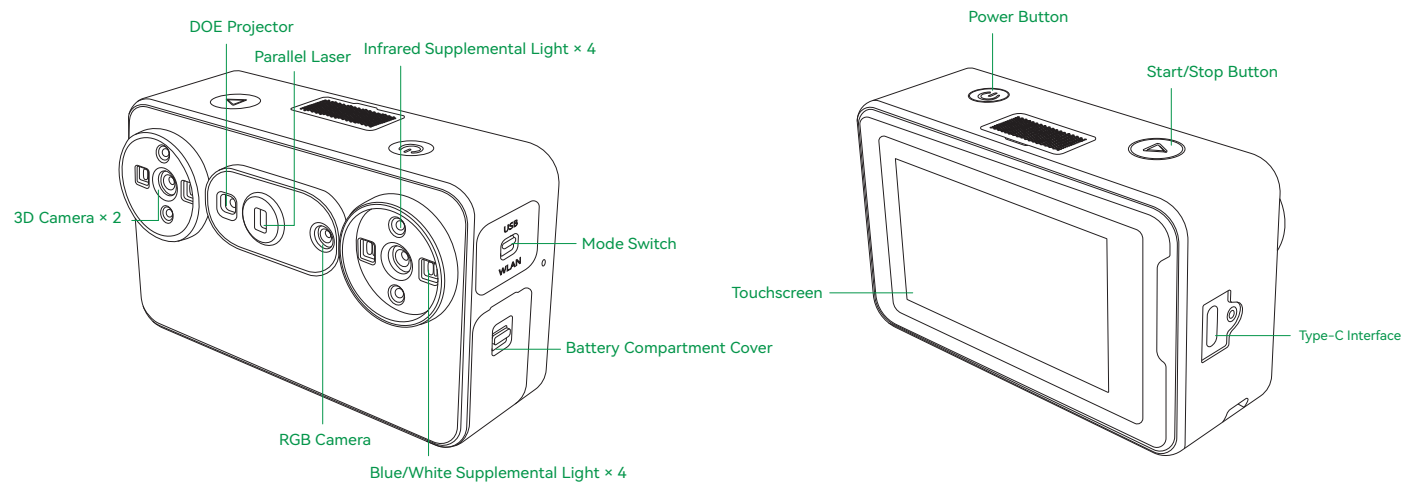
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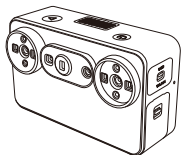
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1. PRODUCT INTRODUCTION

1.1 Scanner Components



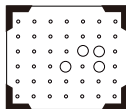
1.2 Part List



Creality Pika 3D Scanner * 1



Tripod * 1



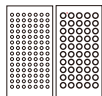
High-Precision Glass Calibration Board * 1



Turntable * 1



2m USB 3.0 Type-C Data Cable * 1



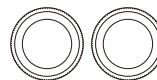
Reflective Markers
(D6mm * 500, D3mm * 980)



Rechargeable Battery * 2



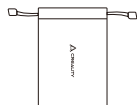
Marker Tower * 6



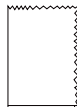
NIR Filter * 2



Quick Start Guide & Certificate
of Conformity & Warranty Card * 1



Portable bag * 1



Cleaning Cloth * 1



Lanyard * 1

2. FIRST USE

Mobile Device Configuration Requirements

	Platform	Pika	Remark
Recommended Models (examples)	Android	Samsung: S26 series Xiaomi: 17 series OPPO: Find X9 Ultra Honor: Magic 8 Pro	Frame rate reaches/exceeds expected frame rate, smooth operation.
	iOS	iPhone 16pro	
Lowest Models (examples)	Android	Samsung: S23 Ultra Xiaomi: 15 Series	Supported for use, but frame rate is not guaranteed to meet advertised requirements.
	iOS	iPhone 14	
Recommended Requirements	Android	Chip:Qualcomm Snapdragon 8 Gen4 or higher Operating System: Android 10.0+ RAM:12GB+	
	iOS	Chip:A17 or later Operating System: iOS 15+ RAM: 8GB+	

PC Configuration Requirements

Windows recommended requirements: OS: Win 10/11 (64-bit) Processor: i7 Gen13 and above Dedicated graphics card: Nvidia 3060 or higher (8GB VRAM) RAM: ≥32GB Software version: ≥V4.2.3	Windows minimum requirements: OS: Win 10/11 (64-bit) Processor: i7-Gen7 Dedicated graphics card: Nvidia graphics card (6GB video memory) RAM: ≥16G Software version: ≥V4.2.3	macOS recommended requirements: OS: macOS 14 and above Processor: Apple M3 and above RAM: ≥32GB Software version: ≥V4.2.3	macOS minimum requirements: OS: macOS 14 and above Processor: Apple M2 RAM: ≥16GB Software version: ≥V4.2.3
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Before using the Creality Pika to scan, you must connect it to your phone or computer and launch the accompanying software. Before first use, be sure to remove all protective films from the scanner (lens, filter, laser)

2.1 Mobile Phone Connection Mode (recommended)

(1) Preparation

Software preparation : Ensure your phone is connected to the internet (4G/5G/Wi-Fi), go to the App Store to search, download and install the accompanying CrealityScan mobile app, or scan the QR code below for download information.

Mobile app version: ≥V3.1.0

iOS devices



Android devices



Hardware preparation :

① Important Note for First Use: Due to transportation safety regulations, the battery has a low charge level when it leaves the factory. Combined with natural wear and tear during transportation, the device may not power on upon first use due to insufficient charge. Please charge the battery for at least 30 minutes before first use to activate it.

Note: The battery of this device supports separate charging (it can be directly connected to the battery charging port with a charging cable), or it can be installed in the back of the device and connected to the main unit for charging.

② Please refer to the direction of the "此端推入/INSERT" arrow on the battery to correctly install the charged/activated battery into the Pika body.



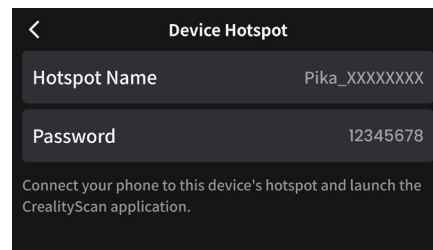
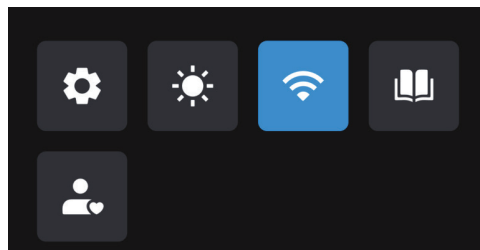
③ For beginners scanning for the first time, it is recommended to use the turntable and marker blocks. Place the object on the turntable to scan. It is recommended to scan small to medium-sized objects (about 10 cm) with matte or complex surface textures, such as mice, remote controls, and figurines. It is not recommended to scan objects that are too small (≤ 10 mm) or have a glossy or reflective surface.

(2) Establish Connection (Wi-Fi connection)

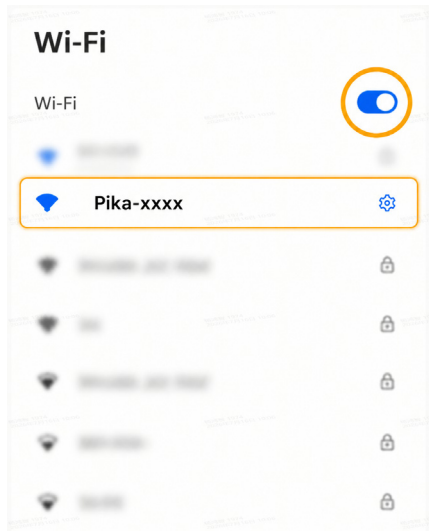
① Switch the mode switch on the side of the Pika to the corresponding wireless WLAN position, press and hold the power button for 5 seconds until the screen lights up.



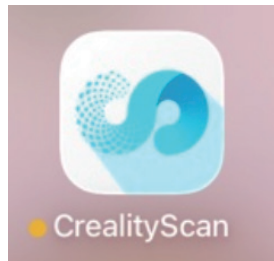
② Swipe down on the Pika screen to open the status bar, and view the hotspot name and password in the menu. Alternatively, follow the "Connection Guide" instructions on the homepage to view the hotspot name and password.



③ Open your phone's Wi-Fi settings list, find Pika's hotspot name, enter the password to complete the connection.

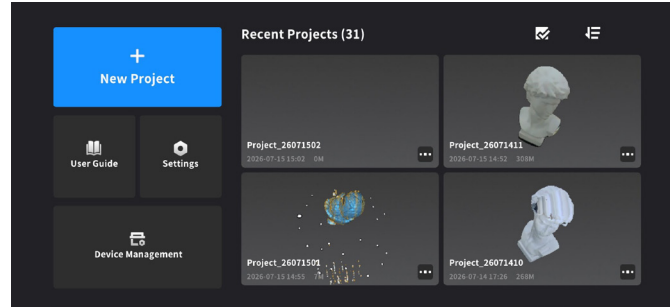
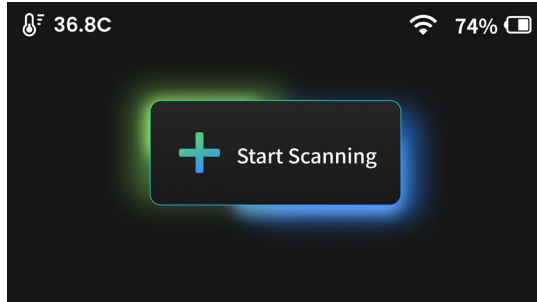


④ After a successful connection, open the downloaded CrealityScan APP on your phone and wait for the device to come online.

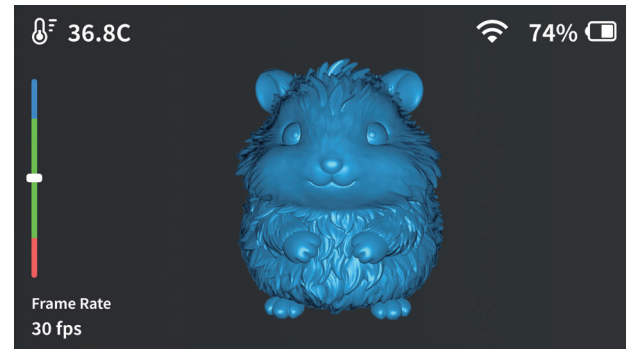
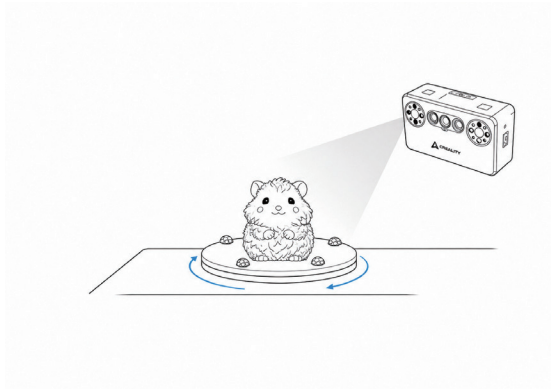


(3) Start Scanning

① After connecting to your phone, tap "Start Scanning" on your device or tap "New Project" in the CrealityScan App to enter the scanning interface.



② When scanning, focus your gaze on the object being scanned and the screen on the Pika scanner itself. Adjust the scanner to a suitable distance; the distance indicator bar on the software interface should be within the green area, indicating that you are at the optimal scanning distance.



③ Scan control:

- In addition to control via mobile phone and Pika screen , you can also directly press the physical mechanical start/stop button on the top of Pika to quickly start, pause, or stop data acquisition.



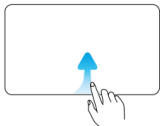
- In Wi-Fi mode, the Pika's screen displays quick control buttons by default. You can also control scanning by tapping the screen. These control buttons can be enabled or disabled in the user preferences settings.



Please refer to the image below for gesture controls on the Pika screen.

Swipe Up - Parameters Settings

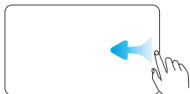
Swipe up from the bottom of the screen to set the parameters for each shooting mode. Once you have set the parameters, swipe down from the top of the screen to return to the liveview.



⚙️ • Various parameters can be set in different shooting modes. Refer to the actual interface.

Swipe Left - Image and Audio Settings

Swipe left in the camera view to adjust image and audio settings. Tap **PRO** to adjust pro parameters.



(4) USB Connection (Android devices only)

① Switch the mode switch on the side of the Pika to the corresponding wired USB position, press and hold the power button for 5 seconds until the screen lights up.

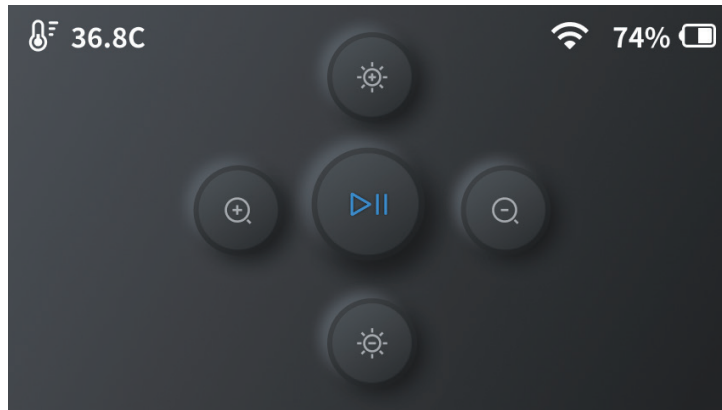


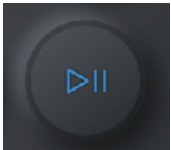
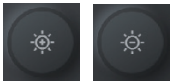
② As shown in the diagram, connect the device to your phone and open the CrealityScan scanning app on your phone. Wait for the device to come online before starting the scan.



③ Scan control:

In USB mode, the interface does not display the scanning screen, but there are buttons to control the scanning process.



	: Tap once to start/pause scanning; press and hold for 2 seconds to end scanning.
	: Click once to increase/decrease exposure by one level.
	: Click once to zoom in/out one level.

2.2 PC Connection Mode

Suitable for high-speed, large-scene scanning, and supports both wired and wireless connection methods.

(1) Preparation

Software preparation : Visit the Creality official Wiki software download page: <https://wiki.creality.com/en/software/scan-software> , find CrealityScan 4 software and download it.



Install software :

Windows: Double-click the installer and follow the prompts to complete the installation.

macOS: After installation, please grant the 3D scanner read and write permissions to optimize point clouds and generate models when using the software.

Hardware preparation :

⚠ Important note for first use : Before first use, the battery also needs to be charged and activated (connect to a power source and charge for more than 30 minutes) to prevent insufficient voltage from causing the device to fail to power on or the wireless connection to be interrupted.

(2) Establish Connection (choose one)

Method 1: Wired connection mode

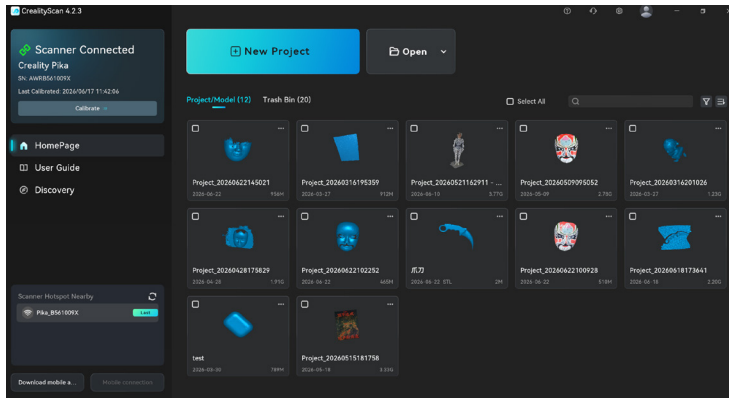
- ① Switch the mode switch on the side of the Pika to the corresponding wired USB position, press and hold the power button for 5 seconds until the screen lights up.



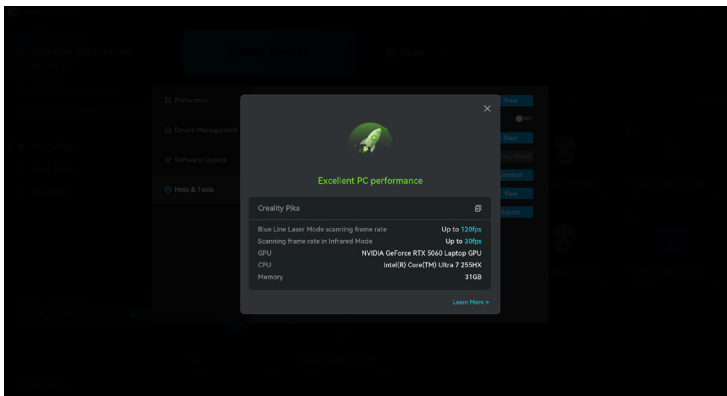
- ② Use the high-speed data transmission cable included with the box, connect one end to the Pika's Type-C port, and the other end to the computer's USB 3.0 (usually blue) or higher-spec port.



③ Launch the CrealtyScan software on your computer. The software will automatically recognize and activate the Pika scanner.



④ After connecting the scanner for the first time, the software will automatically pop up a performance test panel. It is recommended to complete the performance test before starting to scan.

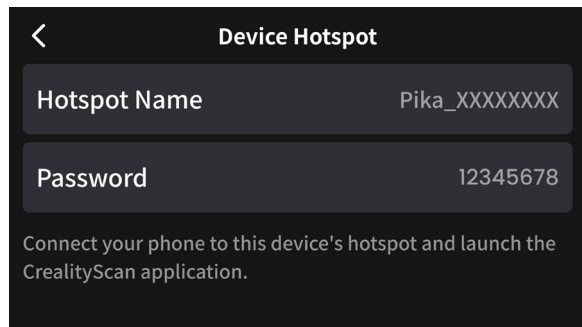


Method 2: Wireless Connection Mode

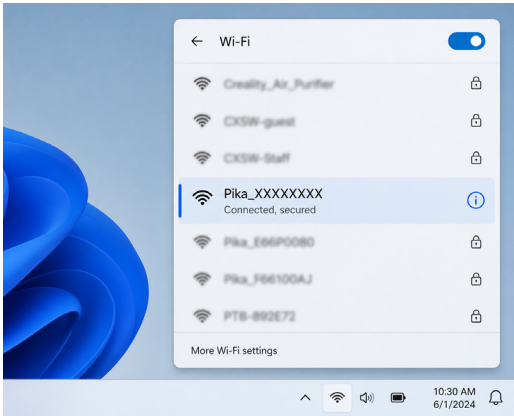
① Switch the mode switch on the side of the Pika to the corresponding wireless WLAN position, press and hold the power button for 5 seconds until the screen lights up.



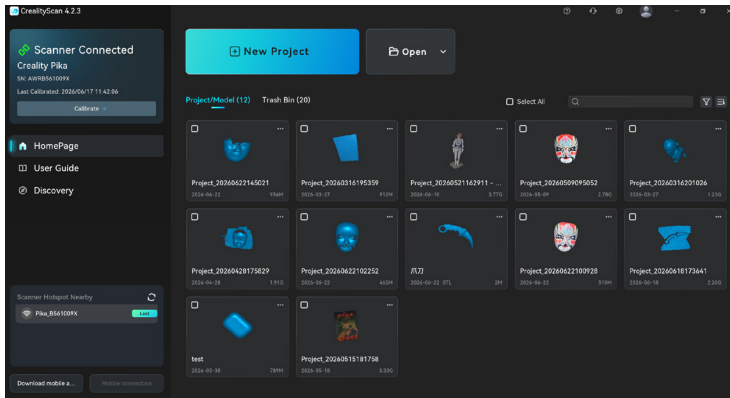
② Swipe down on the Pika screen to open the status bar, and in the settings menu, view the hotspot's name and password.



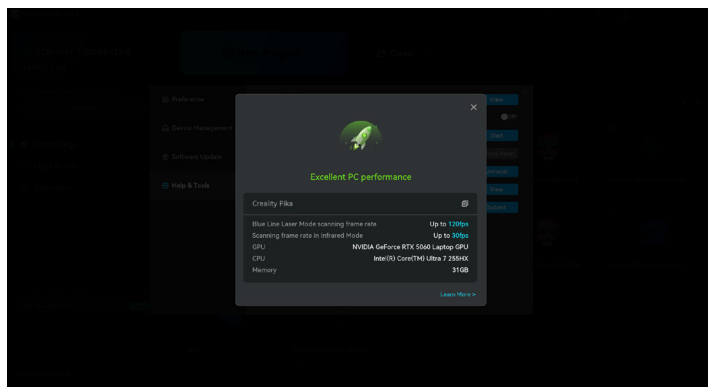
③ Click the Wi-Fi icon in your computer's taskbar, search for and connect to Pika's Wi-Fi hotspot.



④ After a successful connection, launch the CrealityScan software on your computer. The software will automatically search for and connect to the device.

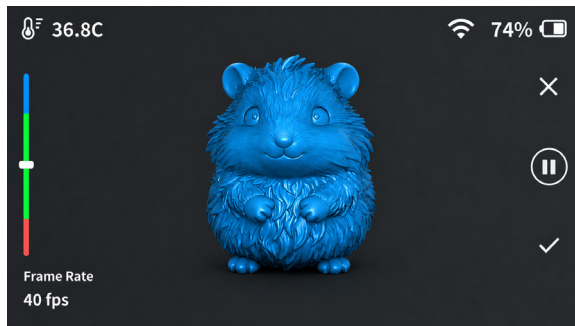


⑤ Similarly, after connecting the scanner for the first time, the software will automatically pop up a performance test panel. It is recommended to complete the performance test before starting the scan.



(3) Start Scanning

- ① Create a new project on the PC client software or Pika's screen , and select the appropriate scanning mode based on the characteristics of the object being scanned.
- ② During the scanning process, you can combine your line of sight with the computer screen and the distance bar on the Pika's screen, which should be green when the scanning posture is adjusted.



- ③ The physical start/stop button on the top of the Pika allows for one-button control of starting, pausing, or ending the scan, making handheld operation more natural.

3. DETAILED EXPLANATION OF SCANNING MODES

3.1 Blue Laser Mode

Suitable for scanning objects requiring high accuracy and rich detail, it is usually used in conjunction with markers.

Parallel Line Mode :

- Features: High accuracy and excellent detail.
- Suitable for: fine scanning of objects, resulting in richer model details. If the object is small, markers can be placed on the tabletop around the object.

Hint:

- Real-time resolution : A smaller resolution results in a more detailed model, but it will consume more memory on your phone/computer and may affect scanning smoothness. Please select according to your phone/computer performance and model requirements.
- Alignment: If you need to scan multiple sides of an object (such as the front and back), you can scan them in multiple steps and then use the software's "Alignment" function to combine them into a complete model.

3.2 Infrared Mode

Suitable for scanning faces, bodies, sculptures or other objects with rich features, and usually does not require the application of markers.

- Features : Safe, fast, invisible light, and harmless to the human eye.
- Applicable scenarios : body scanning, cultural relic protection, medical rehabilitation, etc.
- Functionality expansion : The infrared mode also supports "texture mode" to meet different needs.
- Outdoor scanning tips (NIR filter usage): When performing infrared scanning in strong outdoor light or high ambient brightness, please install the two "NIR Filters" included in the accessories in front of the two "3D Camera" lenses on the back of the device. The filters effectively filter out strong light interference and prevent overexposure, thus significantly optimizing outdoor scanning results.

4. OTHER FUNCTIONS

4.1 Calibration

If you notice a decrease in scanning accuracy or if the scanner has not been used for an extended period, calibration is recommended. Please use the included "High-Precision Glass Calibration Board" (located at the bottom of the package) and connect the device to the mobile app or PC software. Follow the on-screen instructions to restore the scanner's factory accuracy.

4.2 System Upgrade

Creality releases version updates periodically to optimize performance and add new features. Please keep your Creality Pika device and accompanying software (APP/PC) up to the latest version and upgrade as prompted for the best user experience.

5. EQUIPMENT SPECIFICATIONS

5.1 Hardware Parameters

Creality Pika		
Scanning mode	7 Parallel Blue Laser	NIR Structured Light
Accuracy	Up to 0.03mm ^[1]	Up to 0.1 mm ^[1]
3D Resolution	0.1-2mm	0.15-2mm
Scanning Speed (Phone)	Up to 40 FPS	Up to 20 FPS
Scanning Speed (PC)	Up to 110 FPS	Up to 30 FPS
Min. Scan Volume	10 mm x 10 mm x 10 mm	50mm x 50mm x 50mm
Single Capture Range	101mm×107mm at 160mm 344mm×268mm at 400mm	144mm×134mm at 200mm 764mm×670mm at 1000mm
Working Distance	160mm-400mm	140mm-1,000mm
Color Mapping	Yes	
Alignment Mode	Marker / Global Marker / Marker-Free	Geometry / Texture
Outdoor Scanning	≤110,000 lux	≤80,000 lux (with filter)
Supplemental Light	4 Blue/White LEDs + 4 Infrared LEDs	
Laser Safety	Class I (eye safe)	
Calibration Board	High-Precision Glass Calibration Board	
NIR Filter	/	Yes
Processor	8-core CPU (2.0 GHz)	
Display	3-inch Touchscreen	
Battery	3350 mAh (comes with a backup battery)	
Interface	Type-C / USB 3.0	
Input Power	5V 3A	
Wi-Fi	Wi-Fi 6	

Recommended Requirements	Android	OS: Android 10.0+ Chip: Qualcomm Snapdragon 8 Gen4 or above RAM: 12GB+
	iPhone iOS (Wired connection not supported)	OS: iOS 15+ Chip: A18 or above RAM: 8GB+
	Windows	OS: Windows 10/11 (64-bit) CPU: Intel i7 Gen13 or above GPU: NVIDIA RTX 3060 or above (8GB video memory) RAM: ≥32GB
	MacOS	OS: macOS 14 or above CPU: Apple M3 or above RAM: ≥32GB
Weight	260g (batteries included)	
Dimensions	100mm×60mm×35mm	
Operating Temperature	-10°C to 40°C	
Operating Humidity	10-90%RH	
[1] Accuracy is evaluated in laboratory conditions and actual results may be affected by operating environments such as vibration, temperature, and other factors.		

6. PRECAUTIONS

About the Creality Pika 3D Scanner

- Do not disassemble or assemble the equipment yourself.
- Please use the product with the included accessories, such as a rechargeable battery, data cable, calibration board, etc.

6.1 Usage Instructions

Please note the following points, otherwise it may lead to equipment damage or machine malfunction:

- Please avoid significant vibrations and impacts when using this product. The Creality Pika 3D scanner is a high-accuracy device with a delicate internal structure; severe vibrations or impacts may damage the internal structure and cause damage to the optical components.
- Please use this device at the recommended temperature and humidity.

- Please ensure the environment is suitable for use, and ensure the cable connectors are intact when using a wired connection.

6.2 Maintenance Instructions

- When cleaning the device, please use a cotton cloth dampened with diluted neutral detergent, wring it out, and then wipe it. Do not use damp cloths, volatile oils, thinners, or other liquids to wipe this device, as this will damage the appearance of the Creality Pika and may even damage internal components in severe cases.
- Please store the equipment in its dedicated instrument case in a cool, dry place with a relatively stable temperature. Avoid storing it in the following places::
 - Places with excessively high or low temperature and humidity
 - Places with a lot of dust
 - Places containing corrosive or flammable gases
 - Places containing corrosive or flammable liquids

Community and Support



Facebook Community
Discuss, Share, Interact



Creality wiki
Tutorials, FAQs, Troubleshooting, etc.

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Privilégiez la réparation ou le don de votre appareil !



CLASS 1
LASER PRODUCT

CAN ICES (B) / NMB (B)
IC: 27656-CRS15CPK



FCC ID: 2A9XH6-CRS15CPK



R 018-250083



Raccolta differenziata. Verifica le disposizioni del tuo Comune.

Your device has been certified by the relevant countries and regions. You can view this electronic certification information on your device: Go to the device's "Settings" menu, select "My Device", and tap "Certification Information" to find all applicable electronic certification marks and details.