Manuals+

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CREALITY K1C CR-SCAN OTTER 3D Scanner
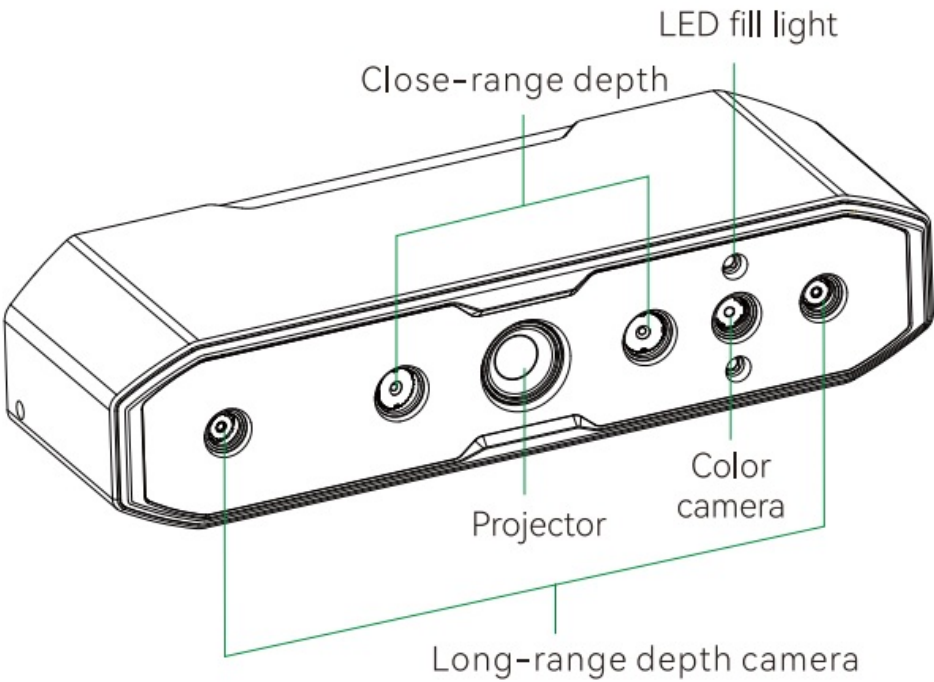
Product Introduction

CR-Scan Otter is a high-precision, handheld, all-in-one 3D scanner compatible with scanning small, medium, and large objects. With a maximum accuracy of 0.02mm. From small screws to human bodies and large automotive components (10~2,000 mm'), it can effortlessly scan objects of various sizes. The ability to adapt to objects of various sizes is achieved by its innovative four-eye stereoscopic vision design. This includes a set of large focal length binoculars and a set ofshort focus length binoculars. The former is used to capture the details of small and medium objects at close range; the latter has a larger FOV and is used to scan relatively large objects, to ensure stable tracking with minimal loss. This scanner is equipped with a depth computing specialized chip independently developed by us, which ensures smooth scanning with a maximum frame rate of up to 20fps. Using unique single-frame 3D imaging technology, it has excellent anti-shake performance. Advanced DOE structured light projection technology enables 3D scanning even outdoors (≤ 30,000 lux). With professional-grade texture supplemental light, it can smoothly complete full-color scans even in low-light environments, and give
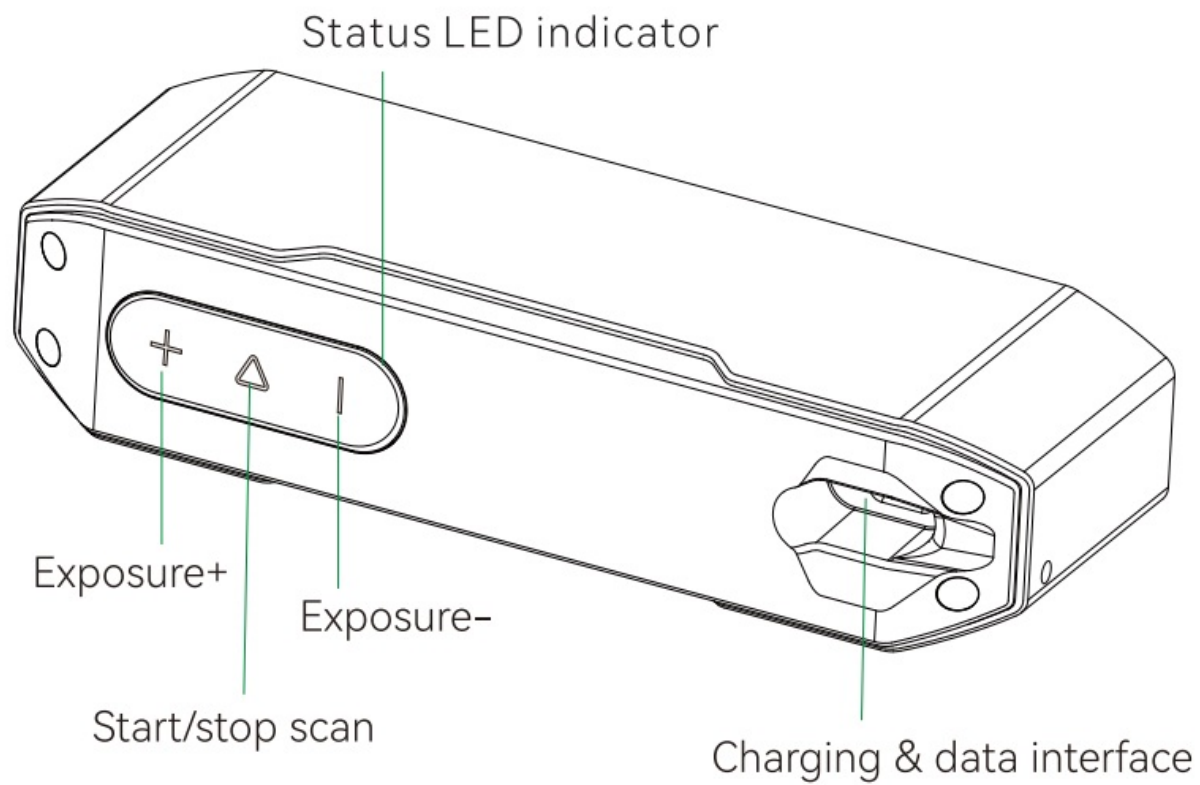
objects exquisite and realistic textures. The all-metal body provides excellent heat dissipation, with a fanless design ensuring noise-free operation. Equipped with touch buttons, interactive indicator lights, and audible buttons, it makes operation more convenient and effortless. Since the 3D scanner is a high-precision device, please handle it with care and store it properly. Avoid collisions or drops to prevent a decrease in accuracy or damage.

Product Specifications

Accuracy	Up to 0.02mm @ 60mm[1]	Output format	OBJ/STL/PLY	Operating temperature	–10℃ to 40℃
3D resolution	0.05-2mm	IMU	YES	Operating humidity	0–90% RH
Scanning Frame rate	Up to 20fps	Color supplemental light	2 white LEDs	Input power	5V⎓3A
Min. scan volume	10mm x 10mm x 10mm	Marker recognition enhancement	8 infrared LEDs	Data interface	USB-C/USB3.0/USB2.0
Single capture range	Max. 1350x840mm@1000mm	Laser safety	Class I (eye safe))	Device dimensions	165mmx37mmx59mm
Technology	Infrared structured light	System support	Windows/macOS(*Wireless scanning accessories are required for iPhone iOS/Android)	Device weight	380g
Working distance	110mm–1000mm			Buttons	Touch
Color mapping	YES	Wireless scanning	Supported in conjunction with future wireless scanning accessories	Audible prompt	Yes
Alignment modes	Geometry/marker/texture			Calibration board	Yes

Equipment overview

LED fill light
Close-range depth
Projector
Color camera
Long-range depth camera

Status LED indicator

Exposure+

Exposure−

Start/stop scan

Charging & data interface

Button instructions

| Button	Scanner feedback	Audible response	LED indicator feedback
▷ Button	Short press once to start scanning; short press again to pause scanning; long press ≥3 seconds to end scanning.	Beep once	The middle LED indicator flashes once
+ button	Increase IR camera exposure time by one level	Beep once	The left side LED indicator flashes once
− button	Decrease IR camera exposure time by one level	Beep once	The right side LED indicator flashes once

LED indicator strip

LED indicator strip color	Status or meaning	Reference color
Green	The device is operating normally or the scanning distance is moderate	+ △ I
Red and flashing	The device is in an abnormal state	+ △ I
Yellow and flashing	The device is in an upgrading state	+ △ I
Orange-red	The scanning distance is too close	+ △ I
Orange	The scanning distance is close	+ △ I
Light blue	The scanning distance is far	+ △ I
Dark blue	The scanning distance is too far	+ △ I

*Note: When the distance LED indicator starts flashing during scanning, it indicates that scanning tracking is lost. The scanner needs to return to the previously scanned area to restore scanning stitching relationships.
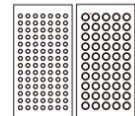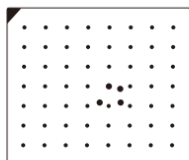
Packing List

CR-Scan Otter 3D Scanner
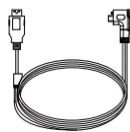
USB 3.0 data cable
(USB-C/USB-A, 2m)

USB 2.0 power cable
(USB-C/USB-A, 1.5m)

Reflective markers (Diameter: 6mm * 2,
Diameter: 3mm * 2)

High-precision calibration board

USB-C adapters * 2

Scanning test object (OWL)

Lanyard

Scanning pad (requires random
application of 3mm markers for use)

Cleaning cloth

Quick start guide, certification
& warranty card

Portable case

CealityScan Software System Operation

Software system requirements of Ceality Scan

- System requirements: Windows 10/11 (64-bit)

- Configuration requirements
- Recommended configuration: CPU i7-Gen7 and above, Nvidia or
- AMD graphics card, 16GB RAM or higher;
- Minimum configuration: CPU i5-Gen8 and above, 8GB RAM or higher.

Recommended configuration

- macOS: 11.7.7 and above (Big Sur/MontereyNentura)
- CPU: Apple M1/M2/M3 series processors; RAM: 16GB or higher; Minimum configuration
- macOS: 10.15.7 and above (Catalina/Big Sur/MontereyNentura)
- CPU: Intel processor (i5-Gen8 CPU and above); RAM: 8GB or higher.

Creality Scan software download and installation

Download link for Creality 3D Scanner Software: wiki.creality.com Go to wiki.creality.com, click on [Software] -> [Creality Scan] to download the Creality scanning software and install it. Please ensure that the software version is 3.1.6 or higher to ensure the normal operation of the scanner.

Note: After installing the Creality Scan software on MAC, please authorize the software to read and write files to optimize point clouds and generate models when using the software.
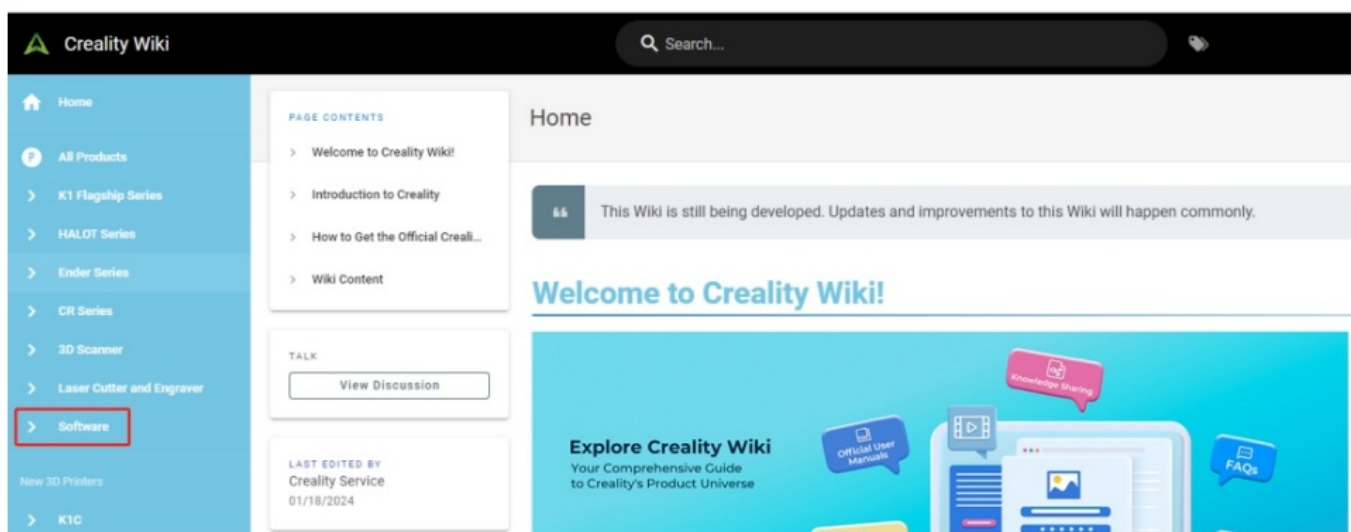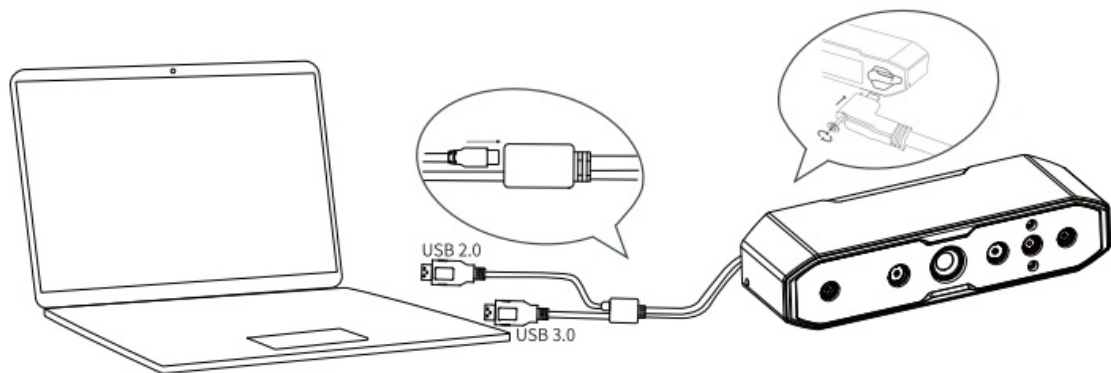

Device Connection

- Method 1: Connect to the computer's USB 3.0 port using the USB 3.0 data cable (USB 3.0 and above ports are generally blue or red)
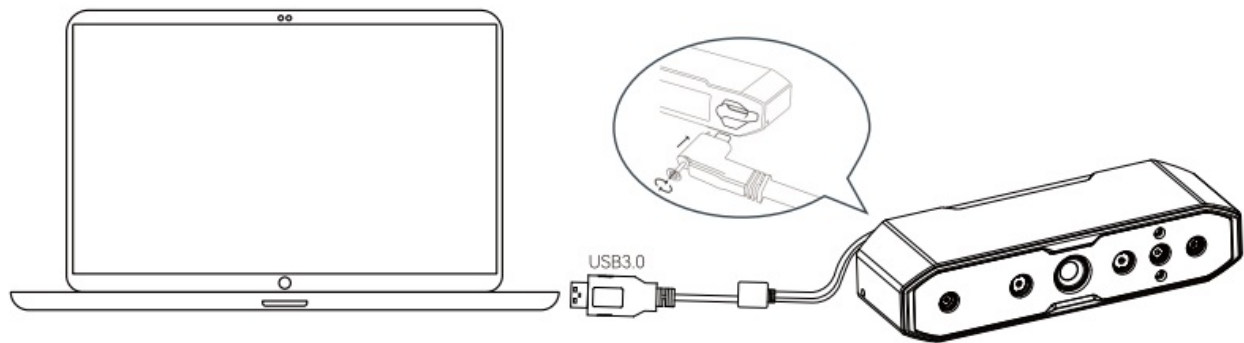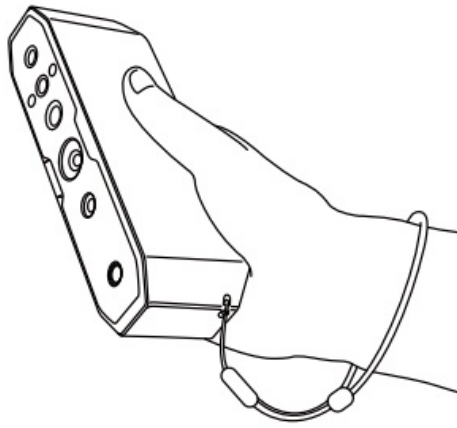

- Method 2: If the computer only has USB 2.0 ports or an insufficient power supply from the USB 3.0 port, use the USB 2.0 power cable for auxiliary power. Connect the USB 2.0 cable to the middle port of the USB 3.0 (as shown in the figure), and the other side of the port can be simultaneously connected to another port on the computer or used with a 5V charger to provide auxiliary power to the scanner.


First Scan

1. Connect the scanner with reference to "06 Device Connection".
2. Note: During handheld scanning, to prevent the scanner from slipping out of hand and causing damage, you can attach one end of the provided lanyard to the scanner as shown in the figure, and loop the other end around your wrist.
3. Open the installed Creality Scan software and perform the first scan experience with the included test object (OWL). Refer to the right table for scan parameters.

⊕ Object ⑦	☑ Normal	☐ Face	☐ Body
◈ Size ⑦	☐ Large	☐ Middle	☑ Small
⑅ Feature ⑦	☑ Geometry	☐ Texture	
H Accuracy ⑦	☐ Fast	☑ Hi-Quality	
⬡ Color Mapping ⑦	☑ Color	☐ No Color	
◉ Turntable	☐ Yes	☑ No	

- Ensure the scanning environment is clean and spacious. Adjust the scanner to an appropriate distance from the test object: when the scanner LED indicator is green or when the distance indicator on the left side of the software interface is optimal (green), it indicates the optimal scanning distance.
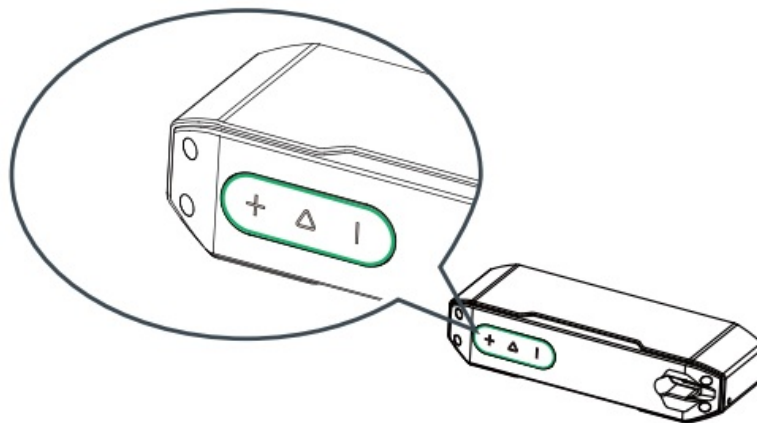
- Press ▷ button on the scanner briefly, or click "Start Scan" on the software interface to initiate scanning. Move the scanner slowly and try to keep the test object in the center of the preview window above. Continue scanning until the model turns green.
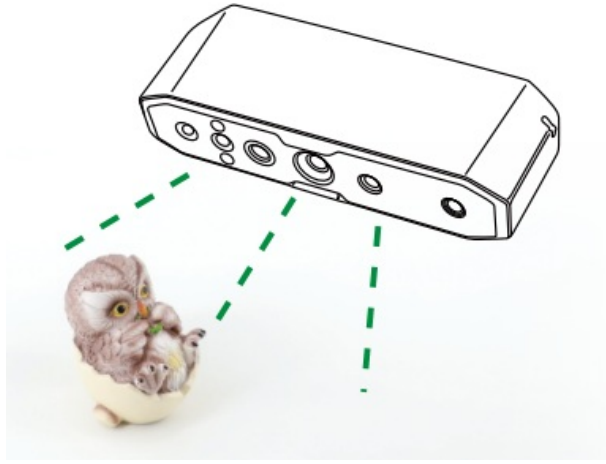
- When part of the scan is complete, you can click to pause, change the model orientation, and then click to resume scanning. After completing the scan, long-press on the scanner for more than 3 seconds, or click "Stop Scan" on the software interface to finish the scan.

3D model   color effect

- Data processing: Perform data processing in the Creality Scan software (one-click/step-by-step processing) to obtain a complete 3D model (recommended dot pitch setting: 0.1 mm).

Note: For tutorials on scanning different objects and data processing, please scan the QR code on the right.

Troubleshooting

- **The Windows computer cannot connect to the scanner.**
  If using a desktop computer, it is recommended to connect to the USB 3.0 port on the back of the main unit (USB 3.0 and above ports are usually blue or red); Confirm that the system used is Windows 10/11 64-bit; The full installation paths for the scanner software Creality Scan must be in English.
- **What to do if the preview is not visible in the application on the Windows**

system?

Use the provided charging cable to connect to a charger to ensure a normal power supply for the scanner.

Open the Windows Device Manager and check if there is an iCR-Scan Otter…' related camera under 'Cameras';

Open Windows Settings-Privacy-Camera, confirm whether the system camera permission is turned on, and ensure that desktop applications have permission to access the camera.

- **What to do if the preview is not visible in the application on the Mac system?**

  Use the provided charging cable to connect to a charger to ensure a normal power supply for the scanner.

  Update the scanner to the latest firmware.

  Use a standalone adapter (the scanner comes with a USB-A to USB-C adapter), and avoid using multifunctional USB adapters whenever possible. Install Creality Scan directly in the computer's Applications directory. Avoid installation within subdirectories of the Applications directory

- **How to deal with the USB 3.0 interface being recognized as USB in the Windows system?**

  You can try quickly reinserting the USB cable or first connect the USB interface and then connect the scanner's USB-C interface. For further questions, please refer to the scanner wiki link: https://wiki.creality.com/en/3d-scanner/cr-scan-otter

FAQs

interface, click on [Calibration], and perform calibration by following the animated instructions." image-7="" count="8″ html="true" css_class=""]

Documents / Resources

	CREALITY K1C CR-SCAN OTTER 3D Scanner [pdf] Instruction Manual K1C, K1C CR-SCAN OTTER 3D Scanner, K1C, CR-SCAN OTTER 3D Scanner, OTTER 3D Scanner, 3D Scanner

References

- [User Manual](#)

🏷 3D Scanner, Cr-Scan Otter 3d Scanner, Creality, K1C, K1C CR-SCAN OTTER 3D Scanner, Otter 3d
📁 Creality   Scanner

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