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SainSmart CR-Scan Ferret Pro

Creality 3D Scanner CR-Scan Ferret Pro User Manual

Model: CR-Scan Ferret Pro

Brand: SainSmart

1. Introduction

The SainSmart Creality CR-Scan Ferret Pro is an advanced handheld 3D scanner designed for both beginners and experienced users. It offers high-precision scanning with full-color capabilities and versatile compatibility, making 3D scanning accessible and efficient for various applications.

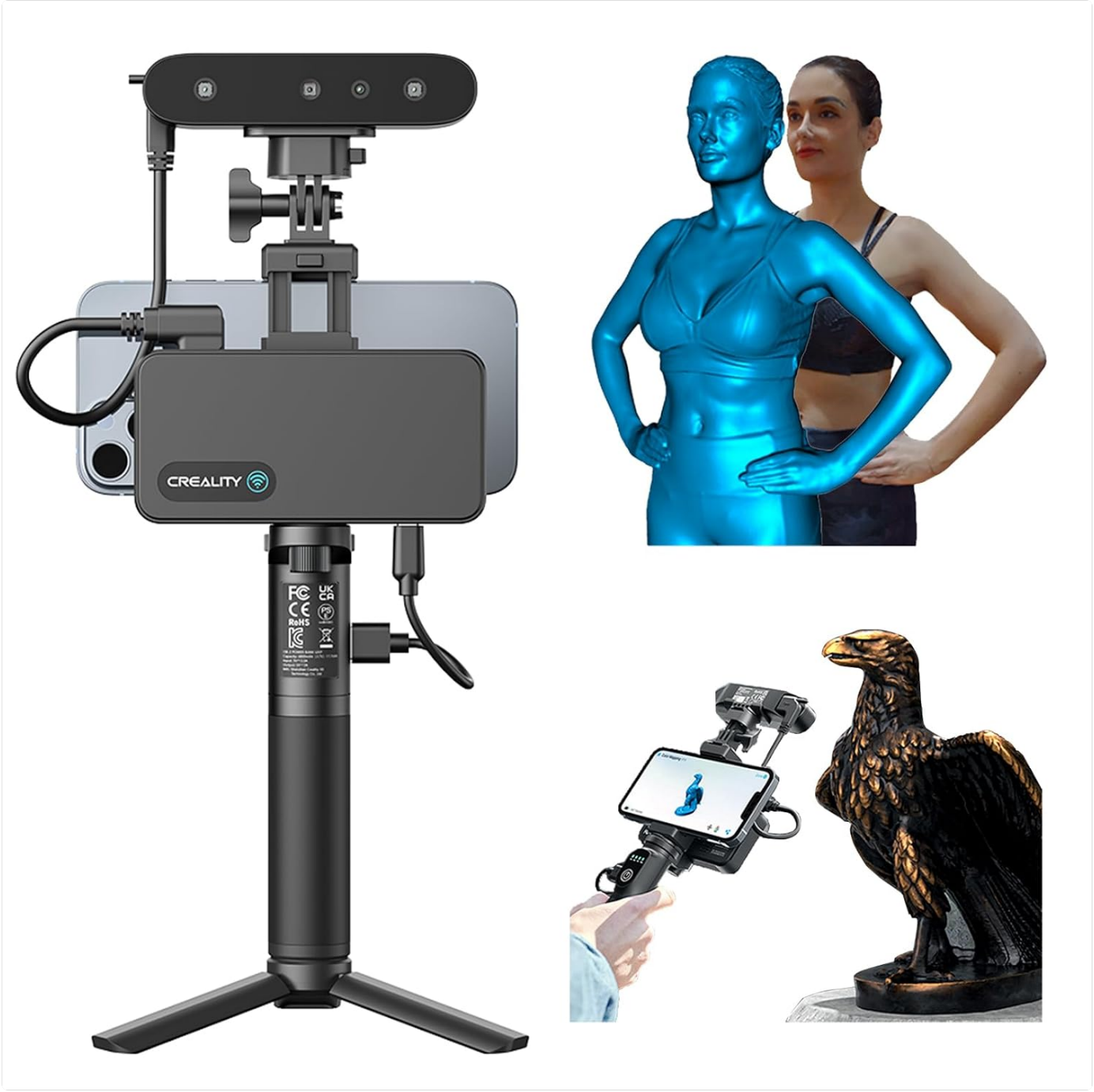


Figure 1.1: Creality CR-Scan Ferret Pro 3D Scanner and its capabilities, including human body scanning and object scanning.

Key Features:

- **Ease-of-Use:** Combines top-tier performance with user-friendly operation, making 3D scanning accessible.
- **Advanced Connectivity:** Leverages WiFi6 technology for smooth and efficient wireless scanning, with iOS compatibility for Apple devices.
- **Precision Scanning:** Features 24-bit full-color capability and an innovative anti-shake feature for successful scans.
- **Versatile Compatibility:** Supports multiple output formats (OBJ/STL/PLY) and is compatible with over ten design software platforms.
- **Portability & Convenience:** Weighing just 105 grams, this compact scanner is designed for easy transport.



Figure 1.2: The compact and portable design of the CR-Scan Ferret Pro, easily fitting into a bag.

2. Setup Guide

Follow these steps to set up your CR-Scan Ferret Pro 3D Scanner for first use.

2.1 Package Contents Verification

Before starting, ensure all components are present in the package:

- CR-Scan Ferret Pro 3D Scanner unit
- WiFi6 Wireless Bridge
- USB-C to USB-C cable
- USB-A to USB-C cable

- Tripod/Handle
- Calibration board (if included)

2.2 Hardware Connection

1. Attach the CR-Scan Ferret Pro scanner unit to the provided tripod/handle.
2. Connect the scanner to the WiFi6 Wireless Bridge using the appropriate USB-C cable.
3. For mobile scanning, connect the WiFi6 Wireless Bridge to your iOS or Android smartphone. For PC scanning, connect the Wireless Bridge to your computer via USB.



Figure 2.1: The CR-Scan Ferret Pro connected to a smartphone, ready for mobile scanning.

2.3 Software Installation

Download and install the "CrealityScan" software on your device (Windows, macOS, Android, or iOS). Ensure your operating system meets the minimum requirements for optimal performance.

- For PC/Mac: Visit the official SainSmart or Creality website to download the latest desktop software.
- For Mobile: Download the "CrealityScan" app from the Apple App Store (iOS) or Google Play Store (Android).

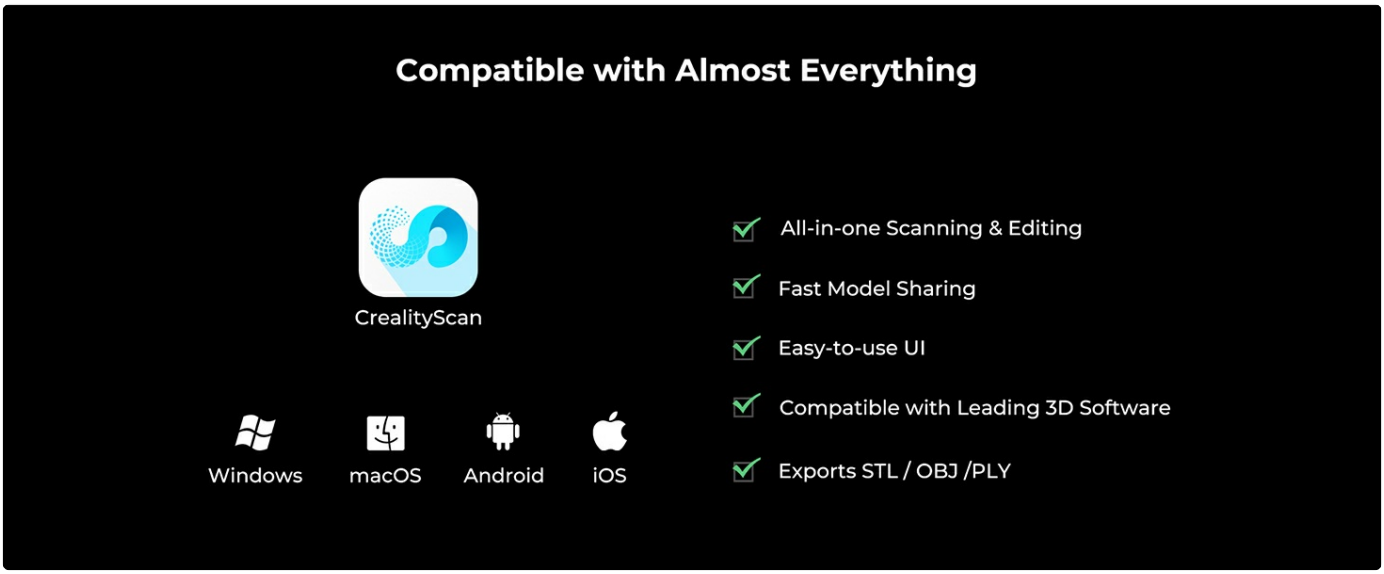


Figure 2.2: CrealityScan software compatibility across various operating systems and its key features.

2.4 Initial Calibration

Refer to the in-app instructions for initial calibration of the scanner. This step ensures accurate measurements and optimal scanning performance.

3. Operating Instructions

The CR-Scan Ferret Pro offers various modes and features to achieve high-quality 3D scans.

3.1 Scanning Modes

- **High-Quality Mode:** Provides up to 0.1mm accuracy, ideal for capturing intricate details on smaller objects.
- **Fast Scan Mode:** Utilizes built-in 3D imaging ASIC chip for rapid scanning of medium to large objects (up to 2 meters).



Figure 3.1: High-Quality Mode for detailed scans and Fast Scan Mode for larger objects.

3.2 Scanning Process

1. **Prepare the Object:** For best results, ensure the object is well-lit. The scanner can handle black/metal objects without spraying.
2. **Launch Software:** Open the CrealityScan application on your connected device.
3. **Select Mode:** Choose between High-Quality or Fast Scan mode based on your object's size and desired detail.
4. **Start Scanning:** Hold the scanner steady and move it smoothly around the object. The anti-shake tracking feature helps maintain a stable scan.
5. **Monitor Progress:** Observe the real-time scan preview on your screen to ensure complete coverage and proper tracking.
6. **Post-Processing:** After scanning, use the software's tools to merge, filter, and mesh the scanned data. Export in OBJ, STL, or PLY formats.



Figure 3.2: Demonstrating the anti-shake tracking feature during the scanning process.

3.3 Full-Color Scanning

The 24-bit full-color capability allows the scanner to capture vibrant textures and intricate details, providing a realistic representation of the scanned object.



Figure 3.3: The scanner's ability to capture 24-bit full-color details, as shown with a peacock sculpture.

3.4 Scanning Challenging Surfaces

The CR-Scan Ferret Pro is designed to scan black and metal objects without the need for scanning spray, simplifying the process for these challenging surfaces.



Figure 3.4: Scanning black and metal objects without the need for pre-treatment.

3.5 Wide Application

The scanner is suitable for a wide range of applications, from human faces and bodies to auto parts, AR/VR assets, crafts, and sculptures.

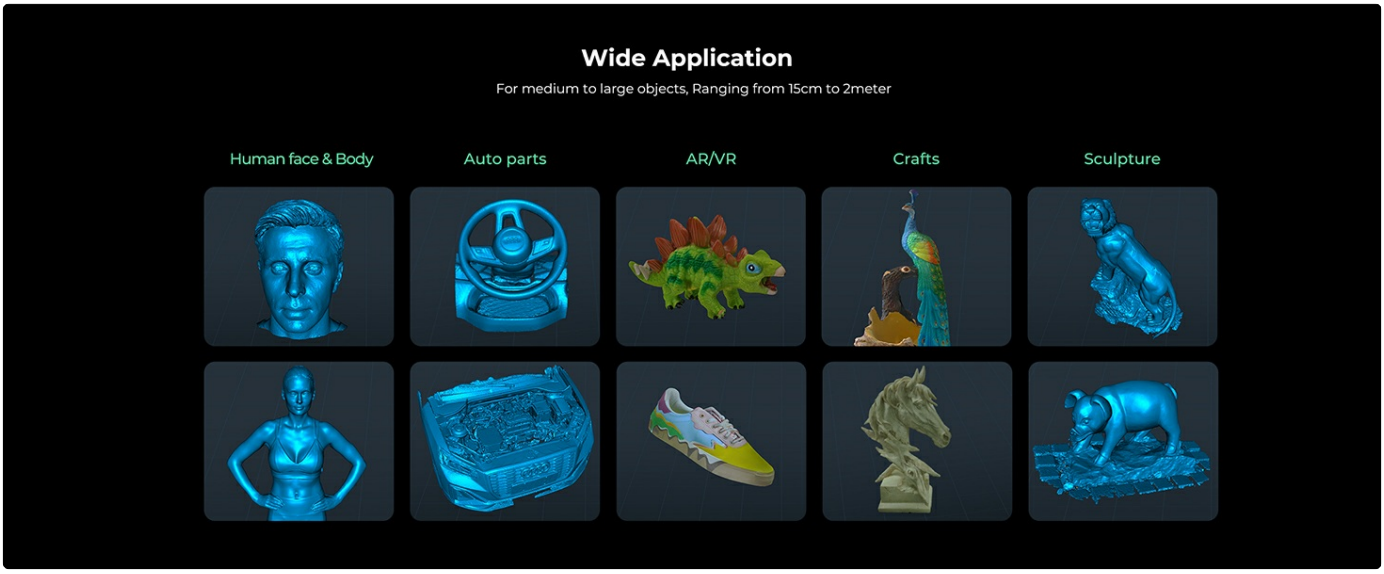


Figure 3.5: Examples of diverse objects that can be scanned with the CR-Scan Ferret Pro.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your CR-Scan Ferret Pro.

- **Cleaning:** Use a soft, dry cloth to clean the scanner's exterior. Avoid abrasive materials or harsh chemicals. Ensure the optical lenses are free from dust and smudges.
- **Storage:** Store the scanner in its original carrying case or a protective pouch when not in use to prevent dust accumulation and physical damage. Store in a cool, dry place away from direct sunlight.
- **Software Updates:** Regularly check for and install the latest software and firmware updates for the CrealityScan application. Updates often include performance improvements, bug fixes, and new features.
- **Battery Care:** If the device has an internal battery (e.g., in the WiFi bridge), avoid fully discharging it frequently and store it with a partial charge if not used for extended periods.

5. Troubleshooting

This section addresses common issues you might encounter and provides solutions.

5.1 Connectivity Issues

- **Scanner Not Detected:**
  - Ensure all cables are securely connected between the scanner, WiFi Bridge, and your device.
  - Verify that the WiFi Bridge is powered on and its indicator lights are active.
  - Restart the CrealityScan software and your connected device.
  - Check your device's WiFi settings to ensure it's connected to the WiFi Bridge's network (if applicable).
- **Slow Data Transfer:**
  - Ensure you are using the WiFi6 Wireless Bridge for optimal speed.
  - Minimize interference from other wireless devices.
  - Ensure your computer's USB port is functioning correctly if using a wired connection.

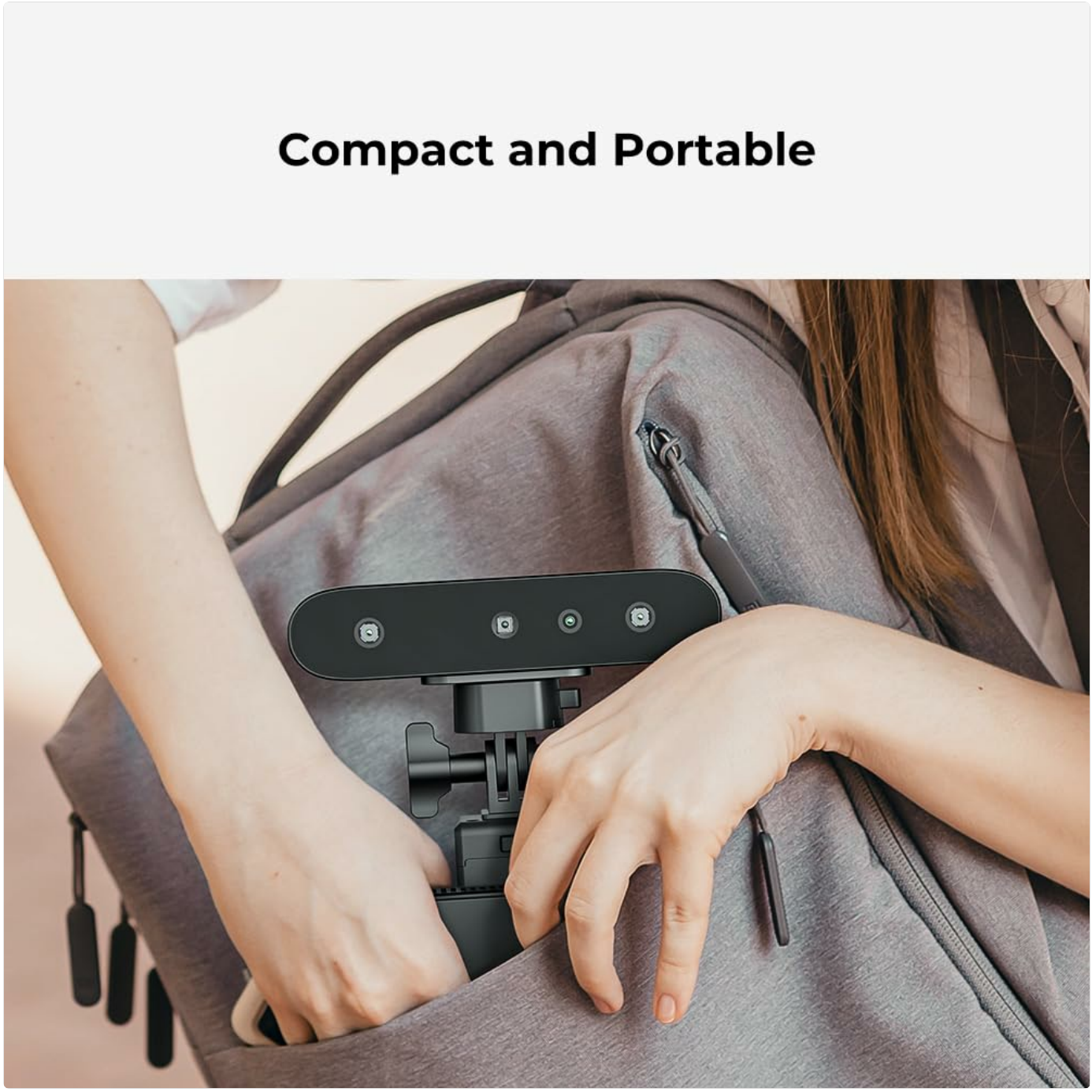


Figure 5.1: The WiFi6 Wireless Bridge ensures faster and smoother data transmission.

5.2 Scanning Quality Issues

- **Poor Tracking/Lost Tracking:**
  - Ensure adequate lighting in the scanning environment.
  - Move the scanner slowly and steadily around the object.
  - For objects with uniform texture or color, consider adding markers (e.g., small, distinct stickers) to aid tracking.
  - Ensure the object is stationary during the scan, or use a stable turntable.
- **Incomplete Scans:**
  - Ensure all angles of the object are covered during the scanning process.
  - Increase the scanning duration or perform multiple scans from different angles and merge them in the software.
- **Low Detail/Accuracy:**

- Switch to "High-Quality Mode" for objects requiring finer detail.
- Ensure the scanner is held at the recommended distance from the object.

5.3 Software/App Issues

- **App Crashes/Freezes:**
  - Ensure your device meets the minimum system requirements for the CrealityScan app.
  - Close other applications running in the background to free up system resources.
  - Reinstall the CrealityScan app if the issue persists.
- **Installation Problems:**
  - Verify your internet connection during download and installation.
  - Disable antivirus or firewall temporarily if they are blocking the installation.
  - Ensure sufficient disk space on your device.

6. Specifications

Feature	Detail
Model Number	CR-Scan Ferret Pro
Brand	SainSmart
Accuracy	Up to 0.1mm
Color Scanning	24-bit Full-color
Connectivity	WiFi6 Wireless Bridge, USB-C
Output Formats	OBJ, STL, PLY
Compatibility	Windows, macOS, Android, iOS
Weight	105 grams (scanner unit)
Package Dimensions	11.02 x 8.66 x 3.23 inches
Package Weight	2.67 Pounds
Batteries	1 Lithium Polymer battery (included)
First Available Date	December 1, 2023

7. Warranty and Support

SainSmart is committed to providing high-quality products and customer satisfaction. For any technical assistance, warranty claims, or product inquiries, please contact SainSmart customer support.

Visit the official SainSmart website for the most up-to-date support information, FAQs, and contact details. Regular

software updates are provided to enhance product performance and address any potential issues.

Note: Since 2012, SainSmart has been a trusted provider in the Maker Community, offering dedicated support for their products.

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