



Manuals.plus /

› 3DMakerpro /

› CR Scan 01 3D Scanner User Manual

3DMakerpro 1300100006

CR Scan 01 3D Scanner User Manual

Model: 1300100006 | Brand: 3DMakerpro

INTRODUCTION

The 3DMakerpro CR Scan 01 is a high-precision 3D scanner designed for converting real-world objects into digital 3D models. It offers versatile scanning modes and advanced processing capabilities, making it suitable for a wide range of applications from industrial design to personal projects. This manual provides essential information for setting up, operating, and maintaining your CR Scan 01 to ensure optimal performance.

WHAT'S IN THE BOX

Verify that all components are present in your package:

- CR Scan 01 Scanner (x1)
- Turntable Kit (x1)
- Tripod (x1)
- Necessary Cables (USB, Power)
- Storage Case (x1)



Image: Contents of the CR Scan 01 package, including the scanner, turntable, tripod, and carrying case.

SETUP

Follow these steps to set up your CR Scan 01 3D Scanner:

1. **Unpack Components:** Carefully remove the scanner, turntable, tripod, and cables from the storage case.
2. **Assemble Tripod:** Extend the tripod legs and adjust the height as needed. Secure the scanner onto the tripod mount.
3. **Connect Cables:** Connect the scanner to your computer using the provided USB cable. Ensure the turntable is also connected to the scanner via its micro USB cable for power and synchronization.
4. **Software Installation:** Install the latest version of the CR Studio software on your computer. Refer to the official 3DMakerpro website for download links and system requirements.
5. **Calibration:** Follow the on-screen instructions within the CR Studio software to perform initial calibration of the scanner. This ensures accurate scanning results.



Image: The CR Scan 01 scanner securely mounted on its tripod, ready for operation.

OPERATING MODES

The CR Scan 01 supports multiple scanning modes to accommodate various object sizes and scanning requirements.

1. Turntable Mode

Ideal for smaller to medium-sized objects, this mode utilizes the included turntable for automated 360-degree scanning. Objects are placed on the turntable, and the software automatically aligns multiple scans to create a complete model.

2. Handheld Mode

For larger objects or when more flexibility is required, the handheld mode allows you to manually move the scanner around the object. The intelligent tracking mechanism compensates for minor hand movements, ensuring stable and accurate data capture without the need for marker points.

Multi-mode Scanning

Two scanning modes are optional, which meet various scanning circumstances and requirements.

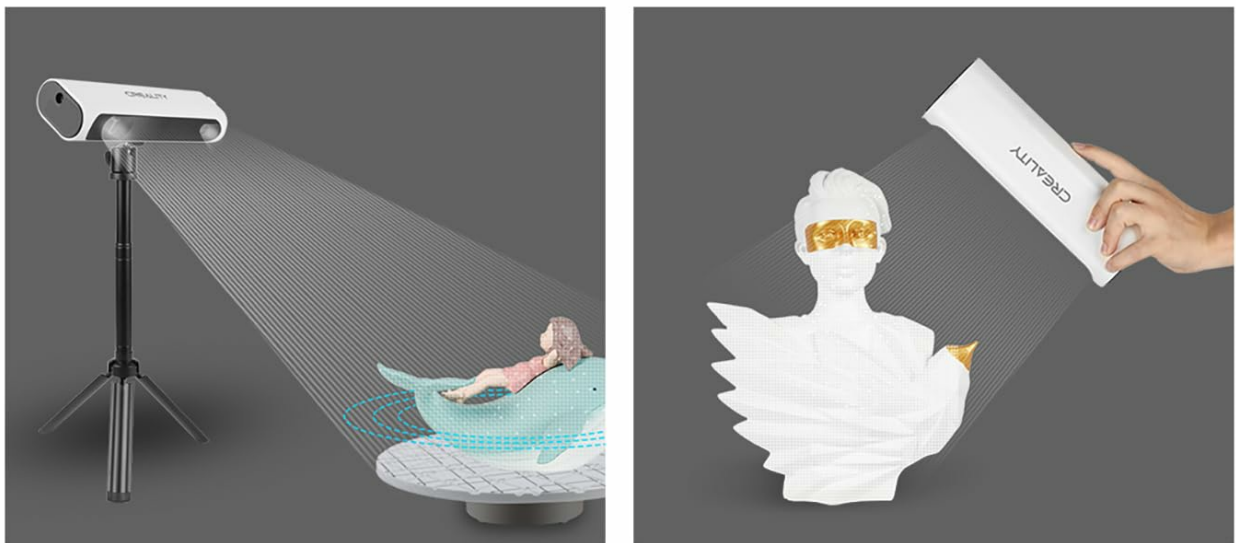


Image: Illustration of the two primary scanning modes: Turntable Mode for automated 360-degree scans and Handheld Mode for flexible scanning of larger objects.

KEY FEATURES

- **High Precision:** Achieves accuracy up to 0.1 mm, capturing fine details even on large objects.
- **Auto Alignment Intelligent Precision:** Features an intelligent wide-range alignment algorithm that ensures automatic matching of scan data without the need for manual marker points. This simplifies the scanning process and improves efficiency.
- **Ultra Large Format Scanning:** The scanning width is 1.5 times that of traditional scanners, allowing for faster and smoother capture of medium to large objects and body parts.
- **True Color Fidelity:** Equipped with a built-in color camera that supports 24-bit high-fidelity color restoration, providing excellent printing results with realistic textures.
- **Powerful Model Processing Method:** The CR Studio software includes advanced features such as automatic fill repair, automatic color repair, automatic substrate recognition, non-destructive mesh simplification, and automatic smooth

denoising, streamlining the post-processing workflow.

Auto Alignment Intelligent Precision

Intelligent wide range alignment algorithm ensures automatic matching without marker points.



Intelligence



Precision



Image: Visual representation of the intelligent auto alignment feature, highlighting its precision and marker-less operation.

True Color Fidelity

24 bit high-fidelity color restoration, excellent printing result.



Image: The scanner demonstrating its true color fidelity by accurately capturing the vibrant colors of a pineapple.

Powerful Model Processing Method

Model editing, automatic fill repair, automatic color repair, automatic substrate recognition, non-destructive mesh simplification, automatic smooth denoising.

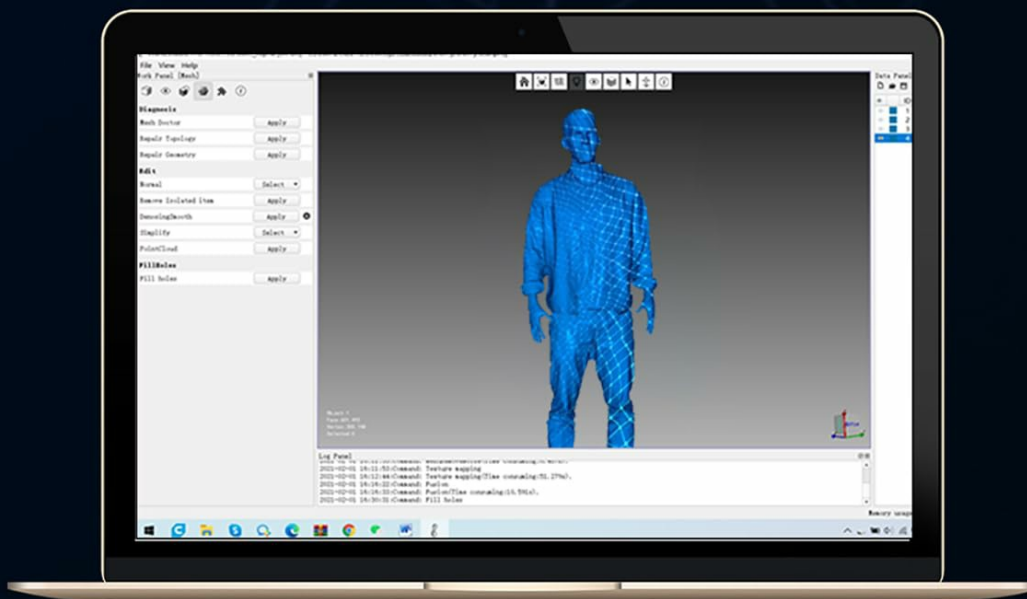


Image: A laptop displaying the CR Studio software interface, illustrating the powerful model processing capabilities for 3D data.

APPLICATIONS

The CR Scan 01 is a versatile tool with broad applications across various fields:

- **Human Body Scanning:** Create 3D models of individuals for custom apparel, medical applications, or digital art.
- **E-commerce:** Generate high-quality 3D models of products for online stores, enhancing customer experience.
- **Cultural Relics Preservation:** Digitize historical artifacts for archival, research, and restoration purposes.
- **Industrial Design:** Rapid prototyping, quality inspection, and reverse engineering of industrial components.
- **Healthcare:** Custom prosthetics, orthotics, and anatomical studies.
- **Education:** Enhance learning experiences in STEM fields by providing hands-on 3D modeling.
- **Animal Scanning:** Capture detailed models of animals for veterinary science, research, or artistic purposes.

Applications

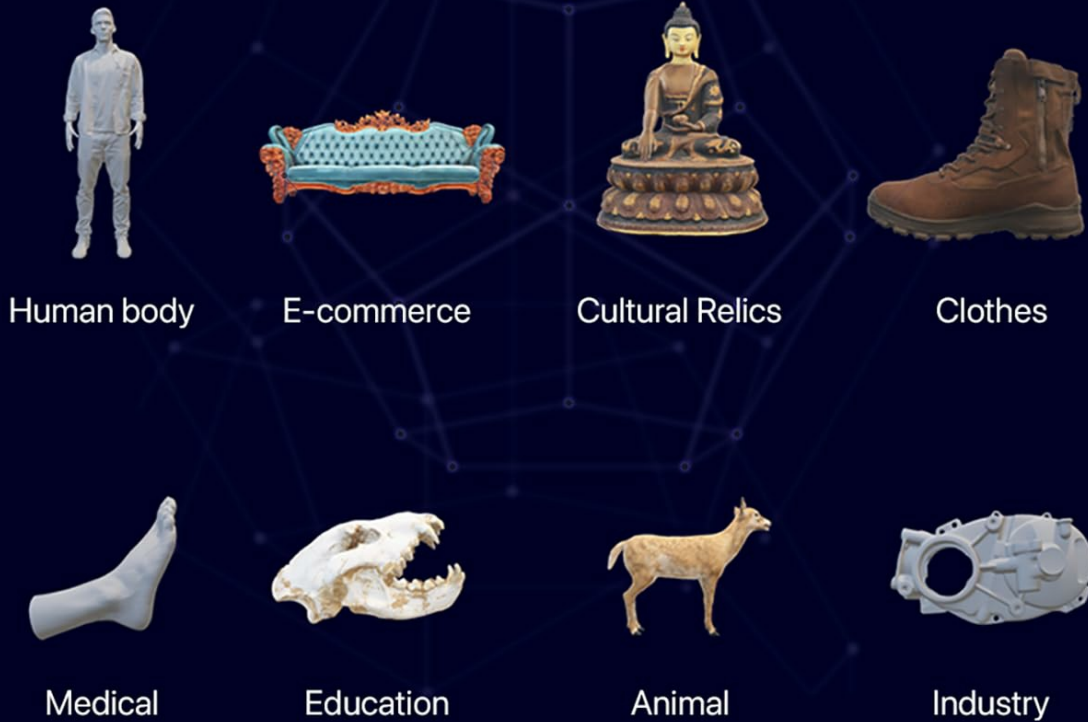


Image: A visual overview of diverse applications for the CR Scan 01 3D scanner, from human body modeling to industrial use.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your CR Scan 01 3D Scanner:

- **Cleaning:** Regularly wipe the scanner's lenses and body with a soft, dry, lint-free cloth. Avoid abrasive materials or harsh chemicals.
- **Storage:** When not in use, store the scanner and its accessories in the provided carrying case to protect them from dust and physical damage.
- **Software Updates:** Keep the CR Studio software updated to the latest version to benefit from performance improvements, bug fixes, and new features.
- **Environmental Conditions:** Operate and store the scanner in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight.

TROUBLESHOOTING

If you encounter issues with your CR Scan 01, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Scanner not recognized by computer	Loose USB connection, driver issue, software not running	Check USB cable connection. Reinstall scanner drivers. Restart CR Studio software and computer.
Poor scan quality/inaccurate models	Insufficient lighting, object movement, calibration needed, reflective/transparent surfaces	Ensure adequate, even lighting. Keep object still during scanning. Perform software calibration. Apply scanning spray to problematic surfaces.
Turntable not rotating	Incorrect connection, power issue	Verify the micro USB cable connecting the turntable to the scanner is secure. Ensure the scanner is powered on.
Software crashes or freezes	Outdated software, insufficient system resources, conflicting software	Update CR Studio to the latest version. Close other demanding applications. Check system requirements.

For further assistance, please contact 3DMakerpro customer support.

SPECIFICATIONS

- **Model Number:** 1300100006
- **Product Dimensions:** 2.95 x 1.89 x 9.61 inches
- **Weight:** 1.11 Pounds
- **Accuracy:** Up to 0.1 mm
- **Scanning Modes:** Handheld, Turntable
- **Color Capture:** 24-bit True Color Fidelity
- **Connectivity:** USB

WARRANTY AND SUPPORT

3DMakerpro products are covered by a manufacturer's warranty. For detailed warranty information, product registration, and technical support, please visit the official 3DMakerpro website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Official Website: 3DMakerpro Store on Amazon