



Manuals.plus /

- › 3DMakerpro /
- › 3DMakerpro Moose Lite Standard 3D Scanner User Manual

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3DMakerpro Moose Lite Standard 3D Scanner User Manual

Model: Moose Lite Standard

1. PRODUCT OVERVIEW

The 3DMakerpro Moose Lite Standard is a handheld 3D scanner designed for 3D printing and modeling applications. It utilizes blue light technology to achieve high accuracy and resolution, making it suitable for capturing detailed object geometries.

Key Features:

- **True-to-life Accuracy:** Achieves 0.05mm accuracy and 0.1mm resolution using blue light technology, preserving fine object details for printing or display projects.
- **Smart Scanning:** Incorporates advanced AI tracking and an innovative point cloud algorithm for efficient and precise 3D model generation.
- **Lightweight Design:** Weighs approximately 250g (0.55lb), making it highly portable. Constructed from durable plastic with excellent heat dissipation and quiet operation.
- **Intelligent Data Processing:** The JMStudio software integrates scanning, editing, and optimization workflows. Features a new generation of single-frame encoded structured light units for smooth, marker-free scanning and automatic alignment.
- **Extended Scan Depth:** Offers up to 100mm scan depth, enhancing vertical scanning capabilities for complex models with intricate structures.
- **Versatile Scanning:** Supports scanning in low-light conditions with 9-level light adjustment, accommodating various colors, materials, and lighting environments.
- **Broad Compatibility:** Official JMStudio software supports exporting files in OBJ, STL, PLY, and ASC formats. Compatible with Windows 10/11 (64-bit) and MacOS 12/13. Optional Smart Grip (sold separately) allows connection to Android/iOS smartphones for mobile scanning.

2. SETUP GUIDE

2.1 What's in the Box

Your 3DMakerpro Moose Lite Standard package includes:

- 3D Scanner (Moose Lite Standard)
- Power Adapter
- Data Transmission Cable
- User Manual



Figure 2.1: Contents of the 3DMakerpro Moose Lite Standard package, showing the scanner, power adapter, data transmission cable, and user manual.

2.2 Software Installation (JMStudio)

1. **Download JMStudio:** Visit the official 3DMakerpro website to download the latest version of the JMStudio software compatible with your operating system (Windows 10/11 64-bit or MacOS 12/13).
2. **Install Software:** Follow the on-screen instructions to install JMStudio. For MacOS users, be aware that the application may not be signed, requiring you to adjust security settings to allow installation from unidentified developers. Grant necessary administrative permissions if prompted.

3. **Connect Scanner:** Connect the 3DMakerpro Moose Lite Standard scanner to your computer using the provided data transmission cable. Ensure a stable connection.
4. **Register Device:** Upon first connection, the software may prompt for device registration. Follow the instructions carefully. For some MacOS users, this step might require quick interaction with a pop-up dialog; ensure you accept or confirm promptly.
5. **Software Interface:** Once installed and connected, launch JMStudio. The interface will display options for scanning, editing, and processing your 3D models.



Figure 2.2: JMStudio software interface for 3D scanning and model editing.

3. OPERATING INSTRUCTIONS

3.1 Basic Scanning Procedure

1. **Prepare Object:** Place the object to be scanned on a stable surface. For optimal results, ensure good contrast and avoid highly reflective or transparent surfaces. If necessary, use a matte scanning spray (e.g., AESUB Blue Spray, available separately) on challenging surfaces.

2. **Launch JMStudio:** Open the JMStudio software on your computer.
3. **Select Scan Mode:** Choose between 'Hand Scan' for freehand scanning or 'Table Mode' if using a turntable (sold separately).
4. **Start Scanning:** Hold the scanner steadily and move it around the object, maintaining a consistent distance. The software will display a real-time preview of the scan. The AI visual tracking and optical anti-shake modules assist in maintaining scan quality and preventing data loss.
5. **Monitor Progress:** Observe the software interface for feedback on scan coverage and quality. The 'Re-Scanning' function can be used to capture missed areas.
6. **Pause/Resume:** You can pause and resume scanning as needed. The software will guide you to align with existing scan data upon resuming.
7. **Complete Scan:** Once the desired area is fully captured, stop the scan.

Optical Anti-Shake Modules intergrated

Moose is equipped with "Beginner-Friendly" optical anti-shake modules.
"Re-Scanning" function is live now.

 **AI** Empowers



Figure 3.1: Handheld scanning in progress with the Moose Lite Standard.

3.2 Post-Processing in JMStudio

1. **Automatic Alignment:** JMStudio features an 'Auto Align' function that automatically stitches scan data together, ensuring seamless connections between different scan passes.

2. **Editing and Optimization:** Use the software's editing tools to clean up the scan data, fill holes, smooth surfaces, and remove unwanted artifacts.
3. **Export Model:** Once satisfied with the 3D model, export it in your preferred format (OBJ, STL, PLY, ASC) for use in other 3D modeling software or for 3D printing.

3.3 Mobile Scanning (Optional)

For on-the-go scanning, the optional Smart Grip (available separately) connects the Moose Lite Standard to your smartphone (Android/iOS). This allows for portable scanning directly with your mobile device.



Figure 3.2: JMStudio mobile import interface.

4. MAINTENANCE

4.1 Cleaning the Scanner

- Gently wipe the scanner's exterior with a soft, dry, lint-free cloth.
- Do not use liquid cleaners, aerosols, or solvents, as these can damage the device.
- Ensure the optical lenses are kept clean and free from dust or smudges to maintain scanning accuracy. Use a lens cleaning cloth if necessary.

4.2 Storage

- Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.
- When not in use, store the scanner in its original packaging or a protective case to prevent damage.
- Keep the scanner away from dust and moisture.

EASILY FITS IN YOUR POCKET

Moose Lite: **250g (0.55lb)**



Figure 4.1: The Moose Lite Standard's compact size for easy storage and transport.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your 3D MakerPro Moose Lite Standard 3D scanner.

5.1 Software Installation and Connection Issues (MacOS)

- **Unsigned App Warning:** If MacOS prevents JMStudio installation due to it being an unsigned app, go to **System Settings > Privacy & Security** and click 'Open Anyway' for JMStudio.
- **Difficulty Registering Device:** If the registration dialog disappears quickly, try repeatedly plugging and unplugging the scanner while focusing on the dialog to accept or confirm. Ensure all necessary drivers are installed.
- **Unresponsive Dialogs:** If modal dialogs become unresponsive, try force quitting JMStudio and restarting the application. Ensure your MacOS version is supported (12/13).

5.2 Scanning Problems

- **"Scan Area to Continue" Message:** If the software repeatedly prompts to "Scan Area to Continue" without progressing, ensure you are moving the scanner smoothly and maintaining a consistent distance from the object. The scanner needs to detect sufficient geometric or textural features to track its position. Try scanning an object with more distinct features.
- **Difficulty with Symmetrical Shapes:** Highly symmetrical objects can be challenging for the software to merge scans due to a lack of unique features for alignment. Consider adding temporary markers (e.g., small pieces of tape) to the object or using a turntable for more consistent data capture.
- **Poor Scan Quality on Reflective/Transparent Surfaces:** These surfaces scatter or absorb light, making them difficult to scan. Apply a matte scanning spray to the object's surface to create a non-reflective, opaque finish.
- **Incomplete Scans:** Ensure you cover all desired angles and surfaces of the object. Utilize the 'Re-Scanning' function in JMStudio to fill in any missed areas.

5.3 General Performance Issues

- **Slow Performance:** Ensure your computer meets the minimum system requirements for JMStudio. Close other demanding applications while scanning.
- **Scanner Not Detected:** Verify that the data transmission cable is securely connected to both the scanner and your computer. Try a different USB port. Restart JMStudio and your computer.

6. SPECIFICATIONS

Feature	Specification
Model	Moose Lite Standard
Accuracy	0.05mm
Resolution	0.1mm
Scanning Speed	10 FPS
Scan Depth	Up to 100mm
Weight	250g (0.55lb)
Dimensions (Approx.)	4.72 x 2.36 x 1.38 inches (120 x 60 x 35 mm)
Supported OS	Windows 10/11 (64-bit), MacOS 12/13, Android, iOS (with Smart Grip)
Output Formats	OBJ, STL, PLY, ASC
Manufacturer	3DMakerpro

7. WARRANTY AND SUPPORT

7.1 Warranty Information

For detailed warranty information, please refer to the warranty card included with your product or visit the official

3DMakerpro website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

7.2 Customer Support

If you encounter any issues not covered in this manual or require further assistance, please contact 3DMakerpro customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your product model (Moose Lite Standard) and purchase details ready.

You can also visit the 3DMakerpro Store on Amazon for additional resources and product information.