

3DMakerpro Moose Lite

3DMakerpro Moose Lite 3D Scanner Instruction Manual

Model: Moose Lite

1. INTRODUCTION

The 3DMakerpro Moose Lite 3D Scanner is a high-precision, handheld device designed for capturing detailed 3D models of objects. Featuring 0.05mm accuracy and 0.10mm resolution, it offers a scanning speed of 10 frames per second, suitable for medium-sized objects ranging from 15mm to 1500mm. The scanner supports various operating systems including Android, iOS, Windows, and MacOS, and utilizes JMStudio scanning software for a seamless process of scanning, editing, and optimizing 3D models.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your 3DMakerpro Moose Lite 3D Scanner to ensure optimal performance and longevity.

2. SETUP

2.1 Unboxing and Components

Carefully unpack your 3DMakerpro Moose Lite 3D Scanner. The package should contain the following items:

- 3DMakerpro Moose Lite 3D Scanner Unit
- Lanyard
- Power Adapters (various regional plugs)
- Small Screw (for tripod attachment)
- Data Transmission Cable (USB-C to USB-C/USB-A splitter)
- Power Supply (with USB-C port)
- Mini Tripod (optional accessory)

- Textured Round Turntable Top (optional accessory)
- Motorized Turntable Base (optional accessory)
- Micro USB Cable (for turntable base)

EASILY FITS IN YOUR POCKET

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



Image: The 3DMakerpro Moose Lite 3D Scanner shown with its various components, including the scanner unit, power adapter, data transmission cable, tripod, turntable, and manual.

2.2 Connecting the Scanner

1. Connect the longer 'L' type plug of the data transmission cable into the USB-C port at the back of the scanner unit.
2. Plug one of the shorter ends of the data cable into a PC USB port.
3. Plug the other shorter end of the data cable into the power adapter. Ensure the correct regional power adapter is attached to the power supply.

2.3 Optional Accessories Setup

Mini Tripod:

Screw the mini tripod into the 1/4-inch thread at the bottom of the 3D scanner. Extend the tripod legs for stable

tabletop use. The tripod can be adjusted to suit various scanning needs.

Motorized Turntable:

Place the textured round turntable top onto the motorized turntable base. Plug the Micro USB end of the turntable cable into the side port of the turntable base and the USB end into a power source (e.g., PC USB port or a USB power adapter).

Your browser does not support the video tag.

Video: A comprehensive tutorial demonstrating the setup and basic operation of the 3DMakerpro Moose Lite 3D Scanner, including connecting cables, tripod, and turntable.

3. OPERATING INSTRUCTIONS

3.1 JMStudio Software Overview

The JMStudio software is your primary interface for controlling the 3DMakerpro Moose Lite 3D Scanner. It integrates capture, editing, and processing functionalities. Ensure you have the latest version installed on your computer.

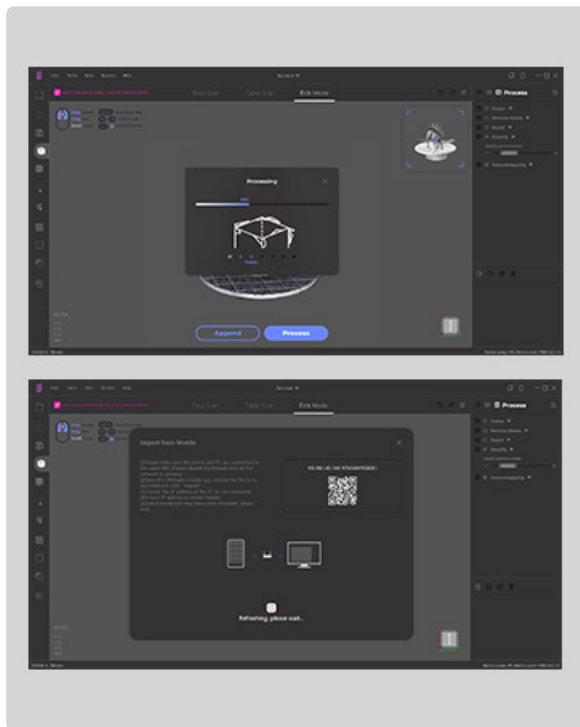


Image: The JMStudio software interface displaying a 3D model being processed, highlighting its integrated scanning, editing, and optimization features.

3.2 Object Preparation

For optimal scanning results, especially with dark, shiny, metallic, or transparent objects, it is recommended to apply a developer or powder spray to the object's surface. This dulls the surface and allows the scanner to capture data more effectively. A light, even coat is sufficient.

3.3 Scanning Modes

JMStudio offers two primary scanning modes:

- **Easy Scan (Handheld Mode):** Ideal for scanning objects ranging from 15mm to 1500mm. This mode allows

you to freely move the scanner around the object.

- **Table Scan (Turntable Mode):** Best for smaller objects (15mm to 300mm) when used with the motorized turntable base. The turntable rotates the object, allowing the scanner to capture all angles from a fixed position.

3.4 Performing a Scan

1. **Positioning:** Place the object in the center of the scanner's view. Ensure the scanner is within the appropriate scanning distance, indicated by the wave monitor in the software (aim for the blue/light blue zone).
2. **Adjust Settings:** In the software, adjust brightness and select the scan type (Geometry or Texture) as needed.
3. **Start Scanning:** Click the 'Scan' button. Move the scanner steadily around the object (Handheld Mode) or allow the turntable to rotate (Turntable Mode). The software will display the captured points in real-time.
4. **Multiple Scans:** For complete coverage, especially for objects with complex geometries or hidden areas, you may need to perform multiple scans. For example, scan the top side, then flip the object and scan the bottom side.
5. **Append Scans:** After completing a scan, click 'Append' to add another scan. The software will automatically align the new scan data with the previous one. Manual alignment is also possible if automatic alignment is not satisfactory.

Your browser does not support the video tag.

Video: A tutorial demonstrating both turntable and handheld scanning modes with the 3DMakerpro Moose Lite 3D Scanner, showing real-time data capture and alignment.

3.5 Post-Processing

Once all necessary scans are captured and aligned, proceed to post-processing:

- **Remove Noise:** Use the 'Remove Noise' tool to eliminate any unwanted data points or artifacts.
- **Repair Gaps:** The software can automatically fill any holes or missing areas in the 3D model.
- **Simplify:** Reduce the polygon count of the model if needed, for easier handling in other software.
- **Texture Mapping:** Apply color textures to the model if captured during scanning.
- **Export:** Export your final 3D model in common formats such as OBJ, STL, or PLY, ready for 3D printing or further CAD software manipulation.

4. MAINTENANCE

To ensure the longevity and optimal performance of your 3DMakerpro Moose Lite 3D Scanner, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the scanner's lenses and body with a soft, dry, lint-free cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures. Use the original packaging or a protective case to prevent dust and physical damage.
- **Cable Care:** Handle cables with care to prevent bending or fraying, which can lead to connectivity issues.
- **Software Updates:** Regularly check for and install the latest JMStudio software updates to benefit from new features, improvements, and bug fixes.

5. TROUBLESHOOTING

If you encounter issues with your 3DMakerpro Moose Lite 3D Scanner, refer to the following common troubleshooting tips:

- **Scanner Not Detected:** Ensure all cables are securely connected to the scanner, power supply, and computer. Try using a different USB port or restarting the JMStudio software.
- **Poor Scan Quality:** Check object preparation (apply powder for dark/shiny objects). Verify the scanning distance is within the optimal range (blue zone on the wave monitor). Adjust brightness and sensitivity settings in the software.
- **Tracking Loss:** Maintain steady movement of the scanner or object. Ensure sufficient lighting in the scanning environment. Avoid sudden movements or obstructions.
- **Software Crashes/Freezes:** Ensure your computer meets the minimum system requirements for JMStudio. Update your graphics drivers and JMStudio software to the latest versions.
- **Missing Data/Holes in Model:** Perform additional scans from different angles to capture all surfaces. Utilize the 'Repair Gaps' function in JMStudio during post-processing.

For persistent issues, consult the 3DMakerpro official support resources or contact customer service.

6. SPECIFICATIONS

Feature	Detail
Accuracy	0.05mm
Resolution	0.10mm
Scan Range	15mm to 1500mm
Scanning Speed	10 FPS
AI Visual Tracking	Yes
Operating Systems	Android/iOS/Win/MacOS
Software	JMStudio (with lifetime free OTA upgrade)
Package Dimensions	10.43 x 10.35 x 3.86 inches
Item Weight	3.58 pounds
Manufacturer	3dmakerpro
Date First Available	August 21, 2025

7. WARRANTY AND SUPPORT

For warranty information, technical support, or customer service inquiries, please visit the official 3DMakerpro website or contact the 3DMakerpro Official Store directly. Keep your purchase receipt and product serial number handy for any support requests.

3DMakerpro is committed to providing professional and cost-effective 3D scanners, backed by a team of experienced R&D personnel dedicated to user satisfaction.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question