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ELEGOO Mars 3 LCD

ELEGOO Mars 3 6.6-inch 4K Mono LCD Replacement Screen Instruction Manual

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the ELEGOO 6.6-inch 4K Monochrome LCD replacement screen for the Mars 3 Resin 3D Printer. Please read this manual thoroughly before proceeding with any installation or maintenance to ensure proper function and safety.

Safety Information

- Always disconnect the 3D printer from its power source before performing any maintenance or installation.
- Handle the LCD screen with care. It is a fragile electronic component.
- Wear appropriate personal protective equipment, such as gloves, to prevent fingerprints or damage to the screen surface.
- Avoid touching the screen surface directly with bare hands or sharp objects.
- Keep the screen away from liquids and excessive dust.

Package Contents

Verify that all components are present in your package:

- 1 x ELEGOO 6.6-inch 4K Monochrome LCD Screen
- 1 x Ribbon Cable (pre-attached or separate)
- Adhesive strips/gaskets (for sealing and securing the screen)



Image: Contents of the ELEGOO Mars 3 4K Mono LCD replacement kit.

SPECIFICATIONS

Screen Size	6.6 inches
Resolution	4098 x 2560 pixels (4K)
XY Resolution	35 µm
Display Type	Monochrome LCD
Lifespan	Up to 2000 hours (approx. 4x longer than RGB LCDs)
Compatibility	ELEGOO Mars 3 Resin 3D Printer



Image: Visual comparison highlighting the enhanced detail of 4K resolution.

Installation Guide

Replacing the LCD screen requires careful handling. Refer to official ELEGOO video tutorials for visual guidance, typically available on the ELEGOO support website or YouTube channel. The following steps provide a general overview:

1. **Preparation:**
    - Power off your ELEGOO Mars 3 printer and unplug it from the power outlet.
    - Remove the resin vat and build plate. Clean any resin residue from the printer's interior.
    - Place the printer on a clean, stable surface.
2. **Disassembly:**
    - Carefully remove the bottom cover of the printer to access the mainboard and LCD connections.
    - Locate the ribbon cable connecting the old LCD screen to the mainboard. Gently unlock the connector and

detach the cable.

- Remove any screws or adhesive holding the old LCD screen in place. Carefully lift out the old screen.

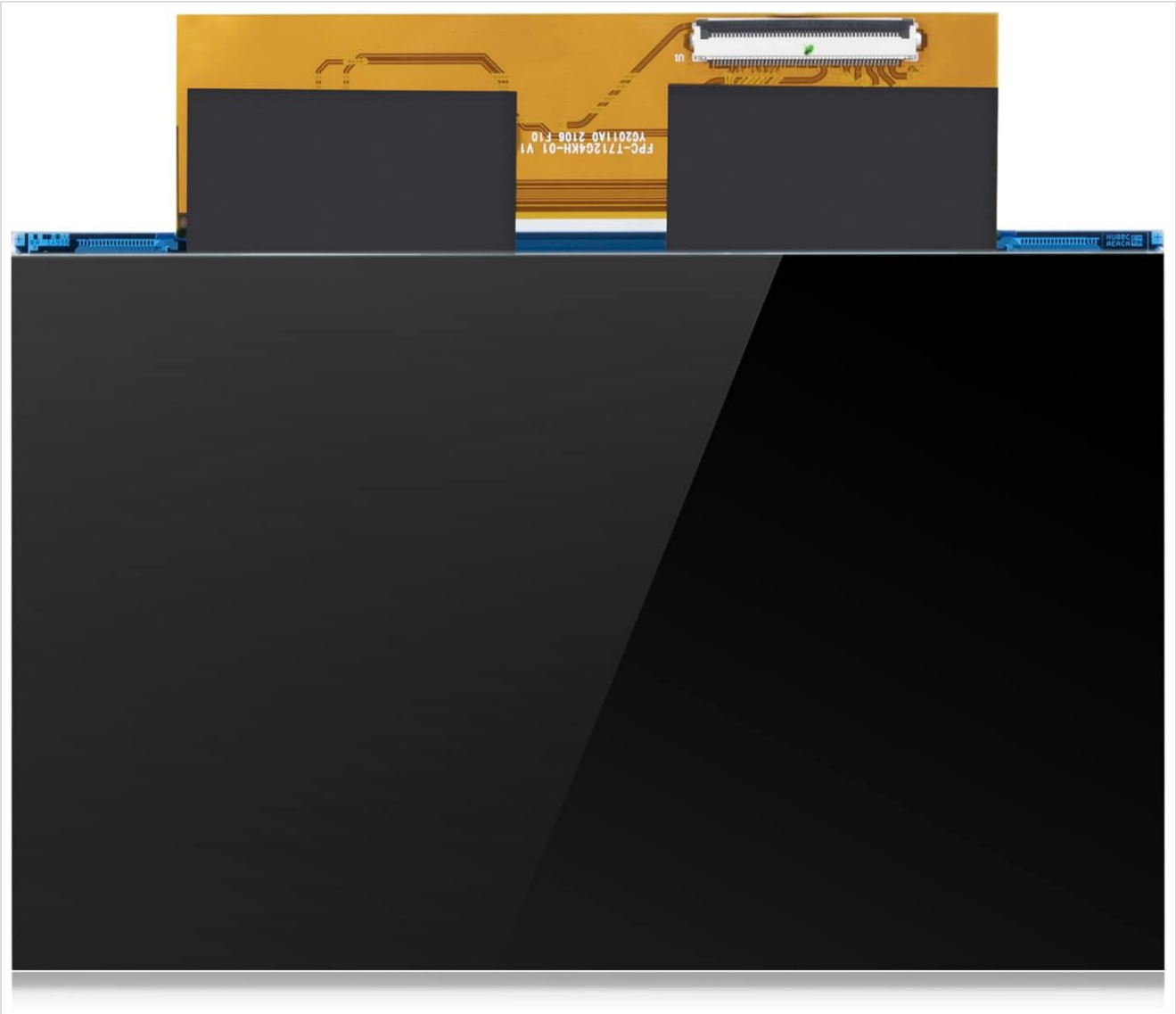


Image: Front view of the replacement LCD screen.



Image: Back view of the replacement LCD screen.

3. **New LCD Installation:**
    - Clean the LCD mounting area thoroughly, ensuring no dust or debris remains.
    - Apply the provided adhesive strips or gaskets around the perimeter of the new LCD screen, ensuring a tight seal to prevent resin leakage.
    - Carefully place the new LCD screen into position, ensuring it is correctly oriented and seated flush.
    - Connect the new LCD's ribbon cable to the mainboard, ensuring it is fully inserted and the connector is locked securely.
4. **Reassembly:**
    - Replace the bottom cover of the printer, securing it with the original screws.
    - Reconnect the power cable.

Operation Check

After installation, perform a test to ensure the new LCD screen is functioning correctly:

1. Power on the printer.
2. Navigate to the printer's system settings or tools menu to find the 'Exposure Test' or 'LCD Test' function.
3. Initiate the test. The LCD screen should display a series of patterns or a solid rectangle of light. Observe the screen

for any dead pixels, uneven illumination, or other anomalies.

4. If the test passes, the screen is ready for use. If issues are observed, recheck all connections and refer to the troubleshooting section.



Image: ELEGOO Mars 3 printer with the new LCD screen displaying content.

Maintenance

- **Cleaning:** Use a soft, lint-free cloth and isopropyl alcohol (IPA) to gently clean the screen surface if resin spills occur. Avoid abrasive materials.
- **Protection:** Ensure the resin vat is properly seated and sealed to prevent resin from leaking onto the screen. Consider using a screen protector if available for your model.
- **Storage:** If the printer is not in use for an extended period, ensure the screen is clean and protected from dust and direct sunlight.

Troubleshooting

Problem	Possible Cause	Solution
Screen does not turn on	Loose ribbon cable connection; Faulty screen or mainboard; Power issue.	Check ribbon cable connection; Ensure printer is powered on; Contact support if issue persists.
Dead pixels or uneven illumination	Manufacturing defect; Damage during installation.	Perform an LCD test; Contact ELEGOO support for replacement if under warranty.
Resin leakage onto screen	Improperly seated resin vat; Damaged FEP film; Inadequate screen sealing.	Ensure resin vat is correctly installed; Inspect and replace FEP film if damaged; Verify screen sealing.

Warranty and Support

This ELEGOO product is typically covered by a manufacturer's warranty. For specific warranty details and duration, please refer to the documentation included with your original printer purchase or visit the official ELEGOO website. In case of issues or technical support needs, please contact ELEGOO customer service directly. Returns are generally accepted within 30 days of purchase, subject to retailer policies.

Manufacturer: ELEGOO

Model Number: US-EL-3D-204

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