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› [MT6071iE 7" TFT 800x480 Color Touch Panel Display HMI User Manual](#)

## MuchoWow MT6071iE

# MT6071iE 7" TFT 800x480 Color Touch Panel Display HMI User Manual

Model: MT6071iE | Brand: MuchoWow

## 1. INTRODUCTION

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The MT6071iE is a high-performance 7-inch Human Machine Interface (HMI) designed for industrial control and monitoring applications. Featuring an 800x480 resolution TFT color touch panel, it provides a clear and intuitive interface for operators. This manual will guide you through the installation, operation, and maintenance of your MT6071iE HMI.

## 2. PRODUCT FEATURES

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- **Multiple Connections:** Equipped with three independent serial ports (COM1: RS-232, COM2: RS-485 2w/4w, COM3: RS-485 2w) supporting various protocols for versatile controller and communication integration.
- **High Performance:** Powered by a Cortex A8 600MHz CPU and 128MB of memory, ensuring fast and responsive operation.
- **Vivid Display:** Features a 1600 high color saturation display for excellent visual clarity and detail.
- **Lightweight Design:** Modern lightweight grey two-tone appearance with a thin fuselage for easy handling and installation.
- **Compatibility:** Project files, installation hole sizes, and communication connections are compatible with older models like WEINTEK MT6070iH and MT6070iE, facilitating hassle-free upgrades.
- **Enhanced Stability:** Built-in isolated power source effectively prevents power surges and unusual currents, enhancing HMI operational stability.
- **Ease of Use:** Configured with EasyBuilder Pro software, offering features such as mobile access, operation records, and recipe database management for simplified application development and use.

## 3. SETUP AND INSTALLATION

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Proper installation is crucial for the reliable operation of your MT6071iE HMI. Follow these general steps:

1. **Mounting:** Ensure the mounting surface is flat and stable. Cut an opening of 192 x 138mm (W x H) in the panel. Insert the HMI into the opening and secure it using the provided mounting clips.

2. **Power Connection:** Connect the 24VDC power supply to the designated power terminals. Ensure correct polarity. The HMI has a built-in isolated power source for enhanced stability.
3. **Serial Communication:** Connect your industrial devices (PLCs, controllers) to the HMI's serial ports (COM1, COM2, COM3) using appropriate cables (RS-232, RS-485).
4. **USB Connections:** Utilize the USB Host (USB 2.0 x 1) for connecting external devices like USB drives or keyboards, and the USB Client (USB 2.0 x 1) for PC connection for program downloads.
5. **Software Configuration:** Use the EasyBuilder Pro software on your PC to create and download your HMI project. Refer to the EasyBuilder Pro manual for detailed programming instructions.

## 4. OPERATING INSTRUCTIONS

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Once powered on and configured, the MT6071iE HMI provides an interactive interface for your industrial processes.

- **Touch Screen Navigation:** Interact with the HMI by touching the screen. The four-wire resistive touch panel offers precise control.
- **Data Entry:** Input numerical or textual data using the on-screen keyboard or connected USB keyboard.
- **Monitoring:** View real-time process data, alarms, and status indicators as configured in your HMI project.
- **Recipe Management:** If configured, use the recipe database feature to manage and load different production parameters.
- **Alarm Handling:** Acknowledge and clear alarms as they occur, and review alarm history.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your HMI.

- **Cleaning:** Gently wipe the screen and housing with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is powered off before cleaning.
- **Environmental Conditions:** Operate the HMI within its specified temperature and humidity ranges. Avoid exposure to direct sunlight, excessive dust, or corrosive gases.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates to ensure your HMI has the latest features and bug fixes.
- **Connection Checks:** Periodically inspect all cable connections for looseness or damage.

## 6. TROUBLESHOOTING

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If you encounter issues with your MT6071iE HMI, refer to the following common problems and solutions:

- **No Power/Display:**
  - Check the 24VDC power supply connection and ensure it is within the specified voltage range ( $24\pm 20\%$ VDC).
  - Verify that the power source is active.
- **Touch Screen Unresponsive:**
  - Restart the HMI.
  - Ensure the screen is clean and free from debris.
  - If the issue persists, the touch panel may require calibration or service.

- **Communication Errors:**

- Verify cable connections to the serial ports (COM1, COM2, COM3).
- Check communication settings in the HMI project (baud rate, data bits, parity, stop bits) to ensure they match the connected device.
- Confirm the connected device is powered on and functioning correctly.

- **Project Download Issues:**

- Ensure the USB Client cable is securely connected between the HMI and your PC.
- Verify that the EasyBuilder Pro software is correctly installed and drivers are up to date.
- Check for firewall or antivirus software blocking the connection.

For persistent issues, contact technical support.

## 7. SPECIFICATIONS

Category	Parameter	Value
<b>Display</b>	Monitor Size	7" TFT
	Resolution	800 x 480
	Brightness	350 cd/m <sup>2</sup>
	Contrast Ratio	500:1
	Backlight Type	LED
	Backlight Life	>30,000 Hours
	Display Color	24 bits
<b>Touch Panel</b>	Type	Four-wire resistive
	Touch Precision	Length (x) 2%, Width (Y) 2%
<b>Memory</b>	Flash Memory	128MB
	RAM	128MB
<b>Processor</b>	CPU	Cortex A8 32Bit RISC 600MHz
<b>I/O</b>	USB Host	USB 2.0 x 1
	USB Client	USB 2.0 x 1
	Serial Interface	COM1: RS-232, COM2: RS-485 2w/4w, COM3: RS-485 2w
	Perpetual Calendar	Built-in
<b>Power Supply</b>	Input Power	24±20%VDC
	Power Consumption	350mA@24V
	Power Isolation	Built-in
	Withstand Voltage	500VAC (1 Minute)

Category	Parameter	Value
	Insulation Resistance	>50MΩ @500VDC
<b>Physical &amp; Environmental</b>	Housing Material	Engineering plastics
	Dimensions (WxHxD)	200.3 x 146.3 x 34mm
	Hole Size	192 x 138mm
	Weight	Approx. 0.6 kg
	Shock Resistance	10 to 25Hz (X,Y,Z 2G 30 minute)

## 8. PRODUCT VIEWS



**Figure 8.1:** Front view of the MT6071iE HMI, showing the 7-inch TFT color touch panel display. The screen displays a sample industrial control interface with various gauges and indicators.



**Figure 8.2:** Top view of the MT6071iE HMI, highlighting the various communication ports including serial ports (DB9 connector), USB ports, and power input terminals. This view demonstrates the connectivity options available.



**Figure 8.3:** Rear view of the MT6071iE HMI, illustrating the robust casing, mounting screw points, and ventilation holes designed for heat dissipation and secure panel installation.

## 9. SUPPORT AND WARRANTY

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For technical assistance, product inquiries, or warranty information, please contact MuchoWow customer support through their official channels. Refer to your purchase documentation for specific warranty terms and conditions.

**Manufacturer:** ElectricalZoo

**Date First Available:** December 12, 2021