

## SHHJCO MT8106iE

# MT8106iE Touch Panel User Manual

Model: MT8106iE | Brand: SHHJCO

[Introduction](#) [Safety](#) [Contents](#) [Features](#) [Setup](#) [Operation & Support](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty](#)

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your MT8106iE Touch Panel. The MT8106iE is a 10-inch Human Machine Interface (HMI) designed for industrial automation and process control applications. It serves as a central point for operators to monitor and control machinery and processes through its intuitive touch screen interface. Please read this manual thoroughly before installation and operation.

## 2. SAFETY INFORMATION

Adherence to safety guidelines is crucial for preventing injury and damage to the device. Always observe the following precautions:

- Electrical Safety:** Ensure the power supply matches the device's requirements. Disconnect power before performing any installation, maintenance, or wiring. Only qualified personnel should handle electrical connections.
- Environmental Conditions:** Operate the HMI within specified temperature and humidity ranges. Avoid exposure to direct sunlight, excessive dust, moisture, or corrosive gases.
- Handling:** Handle the device with care to prevent physical damage. Do not drop or subject it to strong impacts.
- Mounting:** Securely mount the HMI according to installation instructions to prevent it from falling.
- Ventilation:** Ensure adequate ventilation around the unit to prevent overheating.

## 3. PACKAGE CONTENTS

Upon unpacking, verify that all items are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

- MT8106iE Touch Panel Unit
- Mounting Brackets/Clips (quantity may vary)
- Power Connector
- User Manual (this document)

## 4. PRODUCT FEATURES

The MT8106iE Touch Panel offers a robust set of features for industrial applications:

- 10-Inch Touch Screen:** Provides a clear and responsive interface for operator interaction.
- Human Machine Interface (HMI):** Designed for intuitive control and monitoring of industrial processes.
- Industrial Automation:** Widely used in various industrial automation and process control environments.

- **Connectivity:** Equipped with multiple communication ports for integration with PLCs, controllers, and other devices.
- **Durable Design:** Constructed for reliable performance in demanding industrial settings.

## 5. SETUP AND INSTALLATION

---

### 5.1 Physical Installation

The MT8106iE is designed for panel mounting. Ensure the mounting surface is flat and stable, and that there is sufficient space for ventilation and cable routing.

1. Cut an opening in the panel according to the specified dimensions (refer to the product's technical drawing for precise cutout size).
2. Insert the HMI into the cutout from the front.
3. From the rear of the panel, insert the provided mounting brackets into the slots on the HMI's casing and tighten the screws to secure the unit firmly in place. Do not overtighten.



Figure 1: Front view of the MT8106iE Touch Panel, showing the 10-inch display and sleek industrial design.

### 5.2 Electrical Connections

Before making any electrical connections, ensure the power supply is OFF. Refer to the back view of the HMI for port identification.



Figure 2: Back view of the MT8106iE Touch Panel, illustrating the various communication ports including serial (DB9), Ethernet (RJ45), USB, and power input terminals.

- **Power Connection:** Connect the appropriate DC power supply (typically 24V DC) to the designated power terminals. Ensure correct polarity.
- **Communication Ports:**

- **Serial Ports (DB9):** Connect to PLCs or other serial devices using RS-232, RS-485, or RS-422 protocols as required by your application.
- **Ethernet Port (RJ45):** Connect to an industrial network for communication with Ethernet-enabled devices or for remote access/programming.
- **USB Ports:** Used for data transfer, connecting peripherals (e.g., keyboard, mouse), or for project uploads/downloads.
- **Grounding:** Properly ground the HMI to prevent electrical noise and ensure safety.

### 5.3 Initial Power-On

After all connections are secure, apply power to the HMI. The unit should power on and display the boot screen, followed by the configured application interface.

## 6. OPERATING THE TOUCH PANEL

---

The MT8106iE operates via its resistive touch screen. Interaction is typically through finger touch or a stylus.

### 6.1 Basic Touch Screen Interaction

- **Tapping:** A single, quick touch to activate buttons, select items, or open screens.
- **Dragging/Swiping:** Used for scrolling through lists or moving objects, depending on the application.
- **Numeric/Alphanumeric Input:** When input fields are selected, an on-screen keyboard or numeric pad will typically appear for data entry.

### 6.2 Application Interface

The specific functionality and layout of the HMI will depend on the application program loaded onto it. Common elements include:

- **Display Screens:** Show real-time data, process diagrams, and operational status.
- **Control Buttons:** Allow operators to start/stop processes, adjust parameters, or navigate between screens.
- **Alarms and Events:** Display critical warnings or operational events, often with acknowledgment functions.
- **Data Logging/Trends:** May provide historical data visualization for process analysis.

Refer to the specific application's documentation for detailed operational procedures.

## 7. MAINTENANCE

---

Regular maintenance helps ensure the longevity and reliable operation of your HMI.

- **Cleaning:** Clean the touch screen and casing regularly with a soft, lint-free cloth dampened with a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive materials. Ensure no liquid enters the unit.
- **Environmental Check:** Periodically inspect the operating environment to ensure it remains within specified temperature and humidity limits and is free from excessive dust or corrosive substances.
- **Cable Inspection:** Check all connected cables for signs of wear, damage, or loose connections.
- **Firmware/Software Updates:** Consult the manufacturer's website or your system integrator for information on available firmware or software updates that may improve performance or add features.

## 8. TROUBLESHOOTING

---

This section provides solutions to common issues. For problems not listed here, contact technical support.

Problem	Possible Cause	Solution
HMI does not power on.	No power supply; incorrect wiring; faulty power supply.	Check power cable connection; verify power supply voltage; ensure correct polarity; test power supply.
Touch screen unresponsive.	Screen calibration issue; physical damage; software freeze.	Restart the HMI; recalibrate the touch screen (if option available); inspect for physical damage.

Problem	Possible Cause	Solution
Communication error with PLC.	Incorrect communication settings; faulty cable; PLC offline.	Verify communication protocol and parameters (baud rate, parity, etc.); check cable integrity; ensure PLC is powered on and operating.
Display is blank or distorted.	Backlight issue; internal hardware fault; software error.	Restart the HMI; if problem persists, contact technical support.

## 9. SPECIFICATIONS

Key technical specifications for the MT8106iE Touch Panel:

Attribute	Value
Model Number	MT8106iE
Brand	SHHJCO
Display Size	10 Inch
Type	Touch Panel HMI
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.1 pounds
Manufacturer	SHHJCO
Assembly Required	No
Number of Pieces	1

## 10. WARRANTY AND SUPPORT

The MT8106iE Touch Panel is covered by a standard manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase.

### Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact your supplier or the manufacturer, SHHJCO. Provide your product model number (MT8106iE) and a detailed description of the issue when seeking support.

**Contact Information:** Refer to your purchase documentation or the manufacturer's official website for the most current support contact details.