

## GreenTouch GT-TM150

# GreenTouch 15 Inch Industrial Open-Frame Touchscreen LCD Monitor GT-TM150 User Manual

Model: GT-TM150

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GreenTouch 15 Inch Industrial Open-Frame Touchscreen LCD Monitor. Please read this manual thoroughly before using the product to ensure proper functionality and longevity. Keep this manual for future reference.



## 2. PRODUCT FEATURES

- **Ultra-Bright 1000 Nits Display:** The 15-inch monitor features a 1000 Nits display for high visibility, even in direct sunlight, suitable for outdoor and industrial environments.
- **Precise Multi-Touch Capability:** Utilizes Projected Capacitive (PCAP) technology, supporting up to 10 touch points for accurate and interactive applications.
- **Robust Industrial-Grade Design:** Constructed with a durable black frame to withstand tough industrial conditions.
- **High-Resolution Clarity:** Offers a resolution of 1024x768 for sharp and clear visuals.
- **Easy Integration and Versatile Applications:** Designed for seamless integration into various setups, including kiosks, gaming machines, and industrial automation systems, with flexible mounting options.
- **Built-in Turbo Fan:** Features a built-in turbo fan for active air circulation and efficient heat dissipation during operation.
- **IP65 Front Waterproof and Dustproof:** The front panel is rated IP65 for protection against water and dust ingress.
- **IK08 Front Explosion-Proof:** The front panel provides IK08 level protection against mechanical impacts.



Figure 2.1: Industrial protection level with IP65 front waterproof and dustproof rating.

**GreenTouch**<sup>®</sup>

15" 1000 nits high brightness

## OPEN FRAME INDUSTRIAL TOUCH MONITOR

TOUCH TECHNOLOGY:  
CAPACITIVE ,10-POINT TOUCH



Figure 2.2: Built-in turbo fans for effective heat dissipation.

### 3. SETUP

#### 3.1 Unboxing

Carefully open the product packaging. Remove the monitor and all accessories from the box. Ensure all components listed in the packing list are present and undamaged. The monitor is protected by foam inserts; remove these carefully.

Video 3.1: Unboxing and accessory overview of the GreenTouch Open Frame Touch Monitor. This video demonstrates how to safely unpack the monitor and identifies the included cables and power adapter.

#### 3.2 Physical Installation

The monitor is designed for open-frame integration and offers flexible mounting options. It features an embedded bracket and VESA mount holes for secure installation. Ensure the mounting surface is stable and can support the monitor's weight.

# Bright A grade LCD display

The screen brightness is 1000 nits, which can provide better viewing vision under strong ambient light



Figure 3.1: Rear view of the monitor, highlighting VESA mount holes and embedded brackets for installation.

## 3.3 Connecting Cables

Connect the necessary cables to the monitor and your host device. The monitor supports various interfaces including HDMI, VGA, DVI, and USB for touch functionality. An external OSD keypad connector (RJ45) is also available for display configuration.

- **Power Connection:** Connect the power adapter to the monitor's DC IN port and then to a power outlet.
- **Video Connection:** Use an HDMI, VGA, or DVI cable to connect the monitor to your computer's video output port.
- **Touch Connection:** Connect the USB Touch cable from the monitor's USB TOUCH port to a USB port on your computer to enable touch functionality.
- **OSD External Keypad:** If using, connect the RJ45 cable from the OSD connector on the monitor to the external keypad.

# CAPACITIVE TOUCH SCREEN(PCAP) 10-POINTS TOUCH



Figure 3.2: Available connection ports on the monitor.

## Industrial protection level

IP65 front waterproof and dustproof, IK08 front explosion-proof,  
strong resistance to high and low temperature



Figure 3.3: Side view of the monitor with visible input ports.

# Rich interfaces

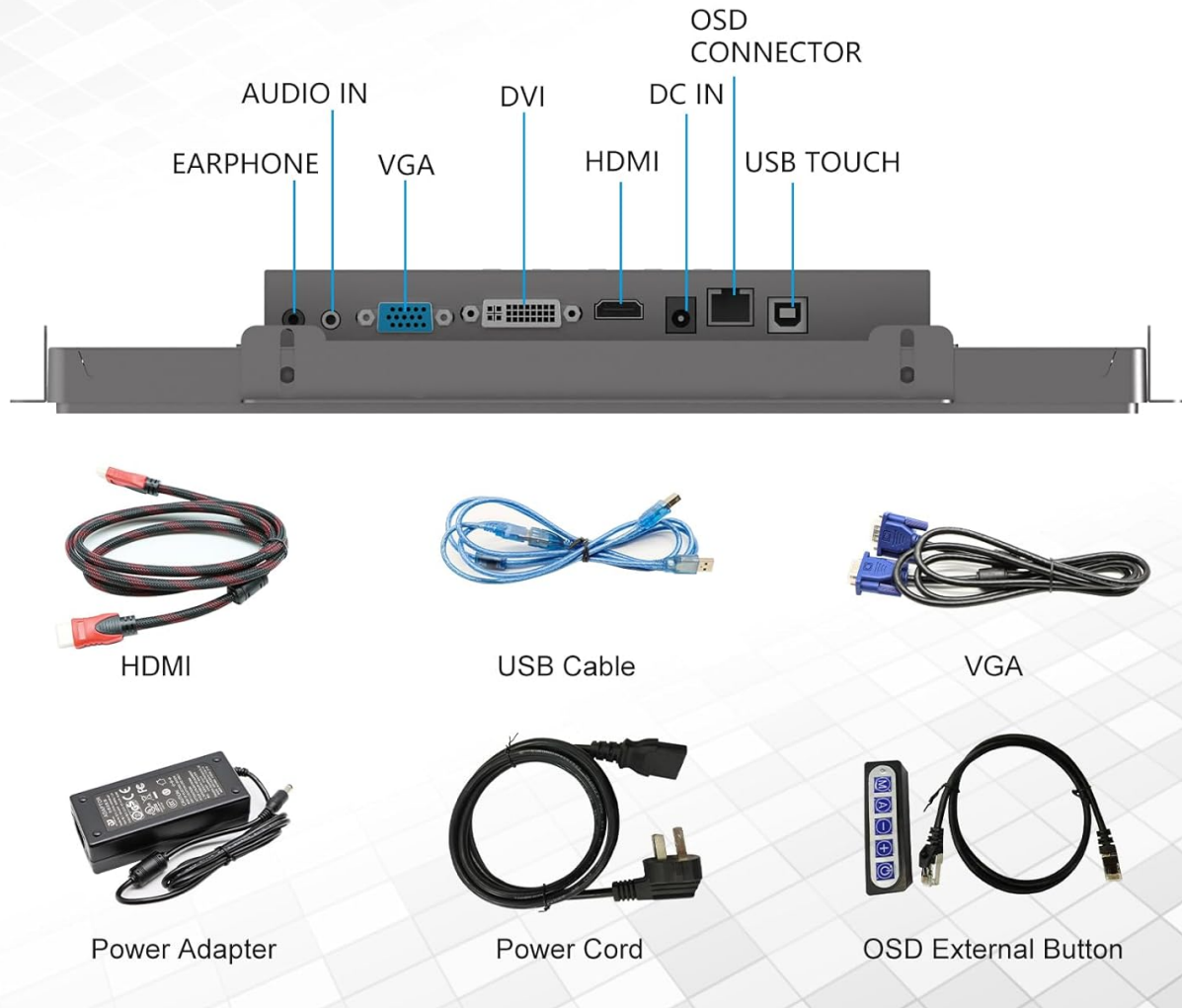


Figure 3.4: Included accessories for connectivity and power.

Video 3.2: This video demonstrates the connection process for power, video (VGA), and touch (USB) cables, followed by fan heat dissipation and touch testing.

## 4. OPERATING INSTRUCTIONS

### 4.1 Basic Touch Operation

The monitor features a 10-point capacitive touch screen. Once connected via the USB touch cable, it will function as a standard touch input device for your operating system. Use gestures such as tap, drag, pinch-to-zoom, and swipe as you would on other touch-enabled devices.

# Application



Figure 4.1: Demonstration of touch interaction on the monitor.

## 4.2 OSD Menu Navigation

The monitor includes an external OSD (On-Screen Display) keypad for adjusting display settings. This keypad connects via an RJ45 cable and allows access to various settings such as brightness, contrast, color temperature, and input source selection. Refer to the OSD keypad's specific instructions for detailed menu navigation.

## 4.3 Brightness Adjustment

The monitor's 1000 Nits brightness can be adjusted via the OSD menu to suit different lighting conditions. This high brightness ensures clear visibility in strong ambient light environments.

# Application



Figure 4.2: The monitor's bright display, capable of 1000 Nits.

## 5. MAINTENANCE

### 5.1 Cleaning the Screen

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, dampen the cloth with a small amount of water or a non-abrasive screen cleaner. Avoid using harsh chemicals, alcohol, or ammonia-based cleaners, as these can damage the screen surface. Ensure the monitor is powered off before cleaning.

### 5.2 General Care

Keep the monitor in a well-ventilated area to prevent overheating. Do not block the ventilation openings, especially the built-in turbo fan vents. Avoid exposing the monitor to extreme temperatures, humidity, or direct sunlight for prolonged periods. Disconnect the power cable if the monitor will not be used for an extended time.

## 6. TROUBLESHOOTING

### • No Display:

- Ensure the power cable is securely connected to both the monitor and the power outlet.
- Verify the video cable (HDMI, VGA, or DVI) is properly connected to both the monitor and the computer.
- Check if the computer is powered on and sending a video signal.
- Use the OSD menu to select the correct input source.

- **Touch Function Not Responding:**

- Ensure the USB Touch cable is securely connected to both the monitor and the computer.
- Verify that the touch screen drivers are correctly installed on your operating system.
- Restart the computer and the monitor.

- **Image Quality Issues (Blurry, Distorted):**

- Check the video cable for damage or loose connections.
- Adjust the resolution settings on your computer to match the monitor's native resolution (1024x768).
- Use the OSD menu to adjust image settings like contrast and sharpness.

## 7. SPECIFICATIONS

Feature	Specification
Brand	GreenTouch
Model Number	GT-TM150
Model Name	GT-TM-1502C-CTW-HD(GL)
Screen Size	15 Inches
Display Type	LCD
Native Resolution	1024x768 Pixels (XGA)
Aspect Ratio	4:3
Brightness	1000 Candela (Nits)
Contrast Ratio	1000:1
Refresh Rate	60 Hz
Response Time	10 Milliseconds
Viewing Angle	178 Degrees
Screen Finish	Glossy
Touch Technology	Capacitive (PCAP), 10-point touch
Connectivity Technology	HDMI, VGA, DVI, USB (for touch)
Total Number of HDMI Ports	1
Voltage	12 Volts (DC)
Item Dimensions (D x W x H)	1.83"D x 13.97"W x 10.98"H
Mounting Type	Wall Mount (VESA compatible)
Color	Black

Feature	Specification
Specific Uses For Product	Business, Industrial

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

This GreenTouch monitor comes with a **1 Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

### 8.2 Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please contact GreenTouch customer support. Refer to the official GreenTouch website or your purchase documentation for the most current contact information.