

GreenTouch GT-TM150

GreenTouch 15 Inch Open Frame IR Infrared Touchscreen Monitor User Manual

Model: GT-TM150

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your GreenTouch 15 Inch Open Frame IR Infrared Touchscreen Monitor. Please read this manual thoroughly before using the product to ensure proper functionality and longevity.

The GreenTouch 15-inch open frame touchscreen monitor is designed for various commercial and industrial applications, offering a 10-point multi-touch infrared touch panel, high optical clarity, and robust construction.

PRODUCT FEATURES

- **Display Size:** 15 Inches
- **Resolution:** 1024 x 768 Pixels (XGA)
- **Aspect Ratio:** 4:3
- **Brightness:** 450 cd/m²
- **Touch Technology:** 10-point multi-touch Infrared (IR)
- **Interfaces:** HDMI, VGA, DVI, USB (Type-B for touch), DC In, Audio In, Earphone
- **Construction:** Industrial metal back shell with porous heat dissipation design
- **Reliability:** Commercial grade, passed over 20 reliability tests, 50,000 MTBF
- **Mounting Options:** VESA 75mm/100mm, external mounting bracket for embedded installation



Figure 1: Front and side view of the GreenTouch 15 Inch Open Frame IR Infrared Touchscreen Monitor, showing its compact design and mounting points.

Back Shell Show

Industrial metal back shell, Porous heat dissipation design,
Strong stability, effectively protecting service life

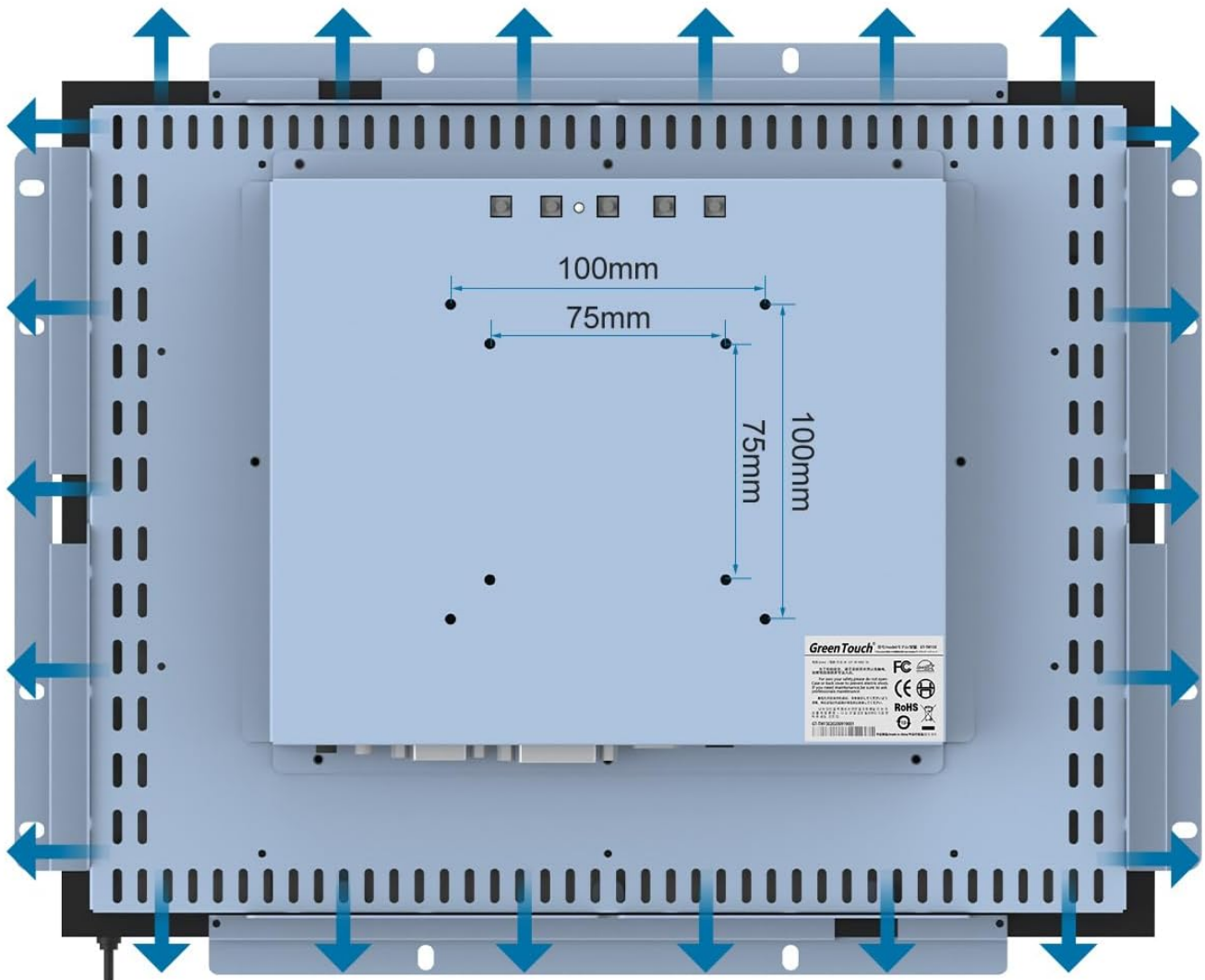
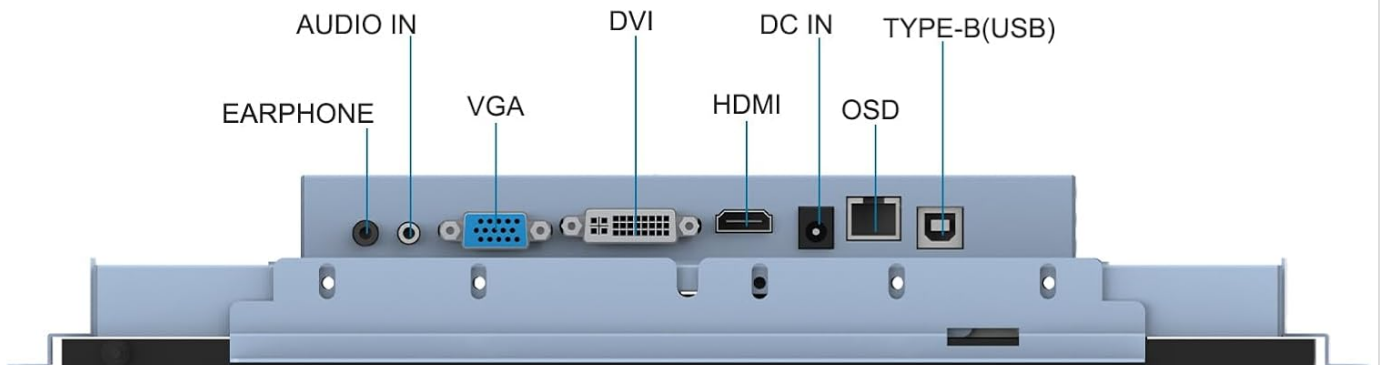


Figure 2: Rear view of the monitor, highlighting the industrial metal back shell and porous design for effective heat dissipation, ensuring product stability and longevity.

Interface display

Rich interfaces



Interface : HDMI+VGA+DVI+Touch USB +DC

Touch method : IR Touch Screen

Figure 3: Detailed view of the monitor's interface ports, including HDMI, VGA, DVI, DC In, Type-B USB for touch, Audio In, and Earphone jack, providing versatile connectivity options.

SETUP AND INSTALLATION

The GreenTouch 15 Inch Open Frame Monitor offers flexible installation options, including VESA mounting and embedded installation using an external bracket.

1. Package Contents

Before proceeding with installation, verify that all components are present in the package:

- GreenTouch 15 Inch Open Frame Touchscreen Monitor
- Power Adapter
- Power Cord
- USB Cable (Type-A to Type-B)
- VGA Cable
- HDMI Cable



Figure 4: The monitor shown with its standard accessories, including power adapter, power cord, USB cable, VGA cable, and HDMI cable, essential for initial setup.

2. Mounting Options

The monitor supports two primary mounting methods:

1. **VESA Mounting:** For desktop, wall-mounted, or embedded installations, utilize the 100mm x 100mm or 75mm x 75mm VESA mounting holes on the back of the monitor. Secure the monitor to a compatible VESA bracket (not included).
2. **External Mounting Bracket:** For embedded installations, an external mounting bracket can be used to secure the monitor within an enclosure or panel.

Product Installation

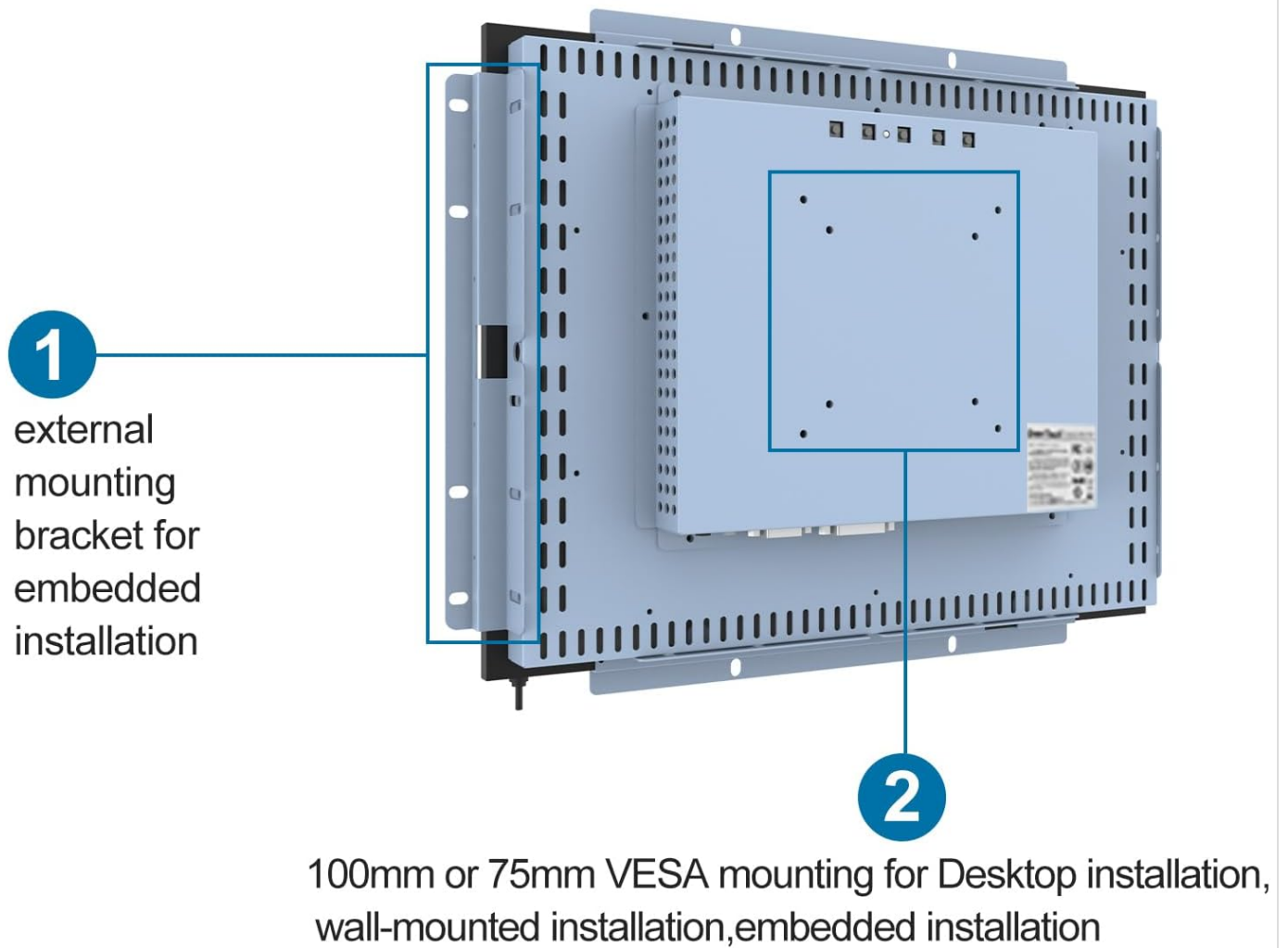


Figure 5: Diagram illustrating the two main installation methods: (1) using an external mounting bracket for embedded installation, and (2) utilizing the 100mm or 75mm VESA mounting points for desktop, wall-mounted, or embedded setups.

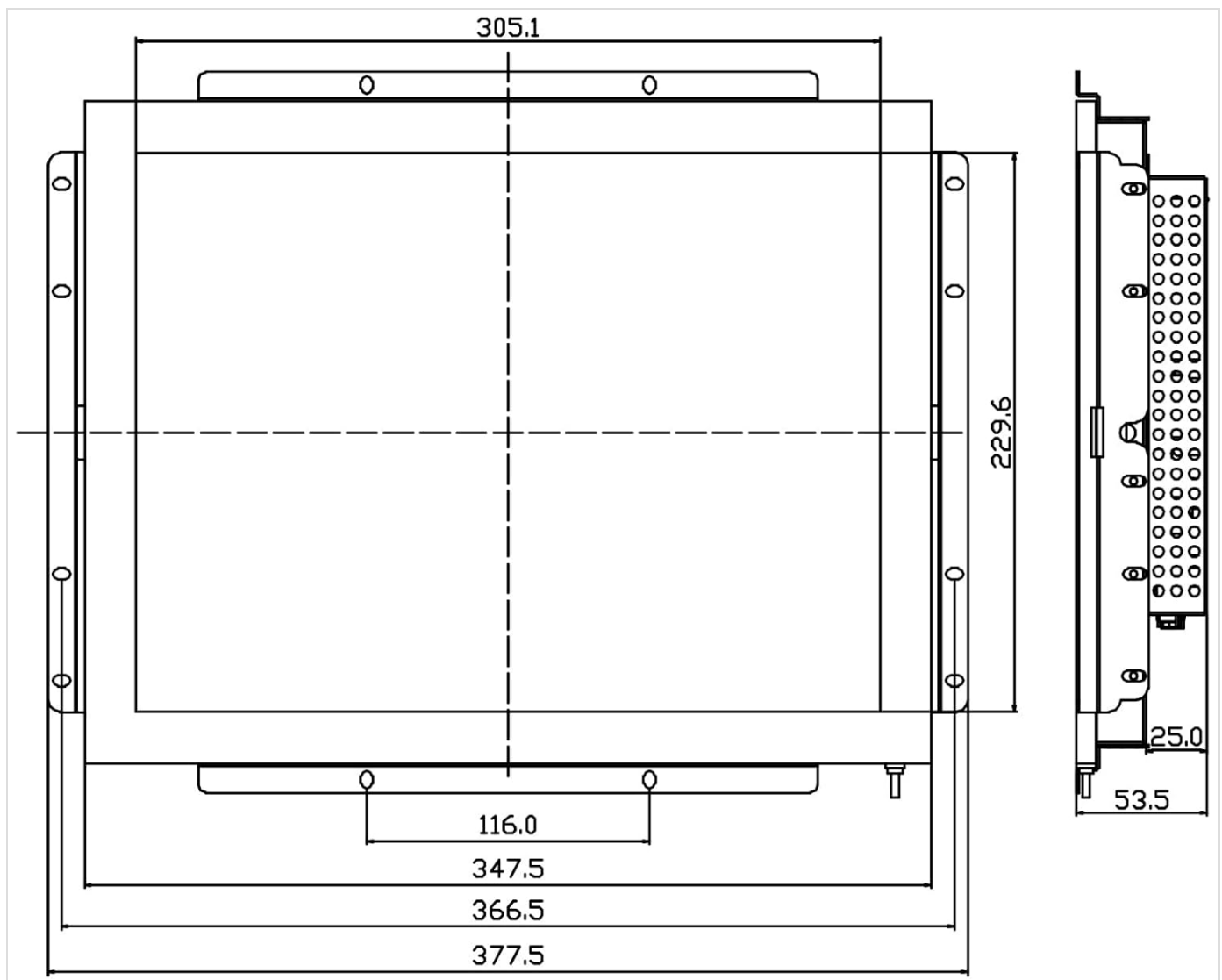


Figure 6: Technical drawing providing precise dimensions of the monitor, crucial for planning embedded installations and ensuring proper fit within custom enclosures.

3. Connecting the Monitor

1. **Video Connection:** Connect one end of the HDMI, VGA, or DVI cable to the corresponding port on the monitor and the other end to your computer's video output port.
2. **Touch Connection:** Connect the USB Type-B end of the provided USB cable to the "TYPE-B(USB)" port on the monitor and the USB Type-A end to an available USB port on your computer. This connection enables the touch functionality.
3. **Audio Connection (Optional):** If audio is desired, connect an audio cable from your computer's audio output to the "AUDIO IN" port on the monitor. An earphone can be connected to the "EARPHONE" port for private listening.
4. **Power Connection:** Connect the power adapter to the "DC IN" port on the monitor, then plug the power cord into the power adapter and a suitable electrical outlet.

OPERATING INSTRUCTIONS

1. Powering On/Off

Once all connections are secure, the monitor will typically power on automatically when power is supplied. If not, locate the power button (usually on the side or back) and press it to turn the monitor on. To turn off, press the power button again.

2. Touchscreen Operation

The monitor features a 10-point infrared multi-touch panel. Ensure the USB touch cable is connected to your computer for touch functionality. No special drivers are typically required for basic touch operation on most modern operating systems (e.g., Windows, Linux). For advanced features or specific applications, refer to your operating system's touch settings.

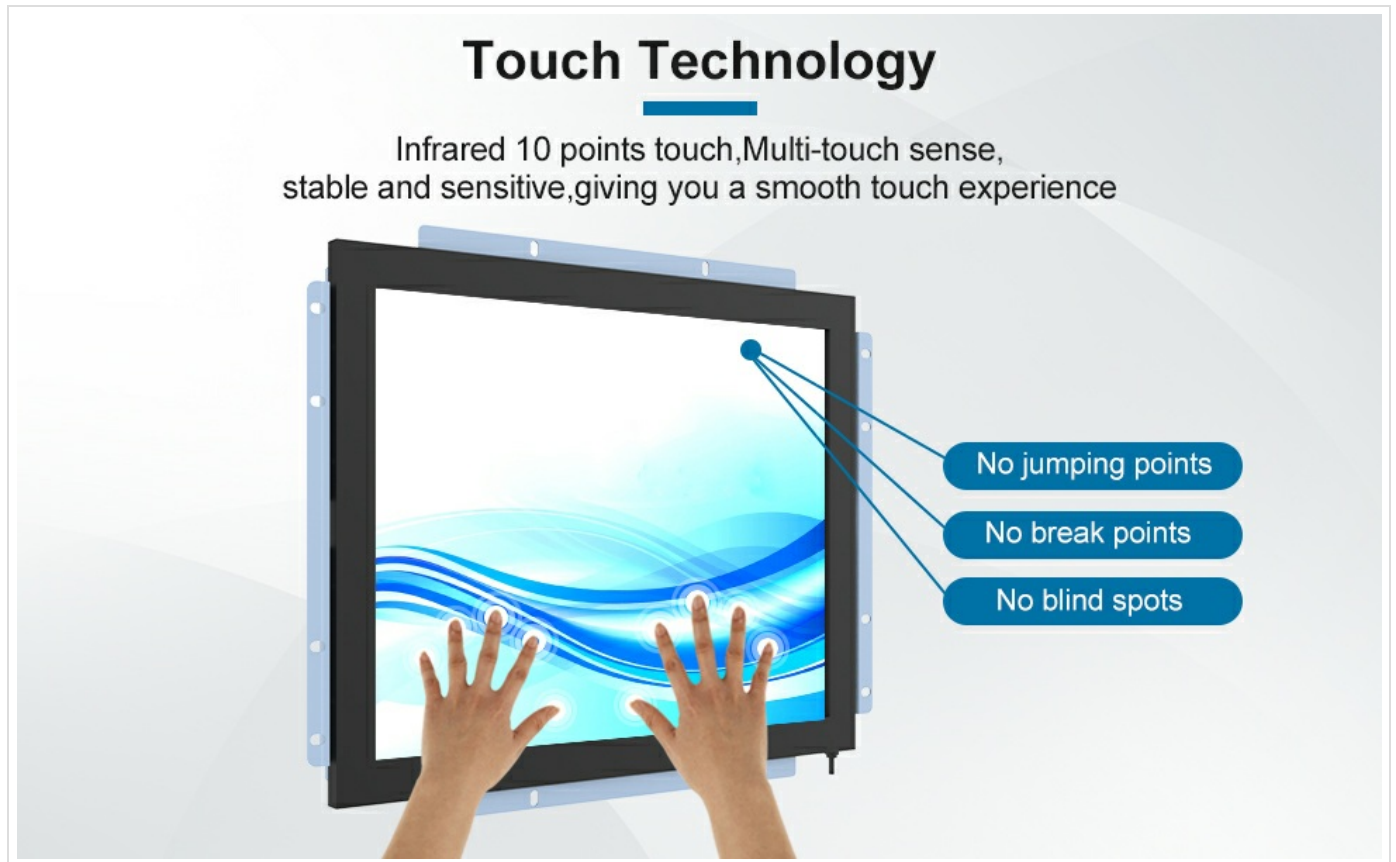


Figure 7: Visual representation of the infrared 10-point touch technology, highlighting its ability to detect multiple touch points simultaneously without jumping, breaking, or blind spots, ensuring a smooth and sensitive user experience.

3. On-Screen Display (OSD) Menu

The monitor includes an OSD menu for adjusting display settings. Access the OSD menu using the buttons located near the "OSD" label on the back or side of the monitor. Common adjustable settings include:

- Brightness and Contrast
- Color Temperature
- Input Source Selection (HDMI, VGA, DVI)
- Aspect Ratio
- Image Position and Phase

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your GreenTouch monitor.

- **Cleaning the Screen:** Use a soft, lint-free cloth slightly dampened with water or a non-abrasive, ammonia-free screen cleaner. Do not spray liquid directly onto the screen. Avoid harsh chemicals or abrasive materials.
- **Cleaning the Casing:** Wipe the monitor casing with a soft, dry cloth.
- **Ventilation:** Ensure that the ventilation holes on the back of the monitor are not obstructed to allow for proper heat dissipation.
- **Storage:** If storing the monitor for an extended period, disconnect all cables and store it in a cool, dry place,

preferably in its original packaging.

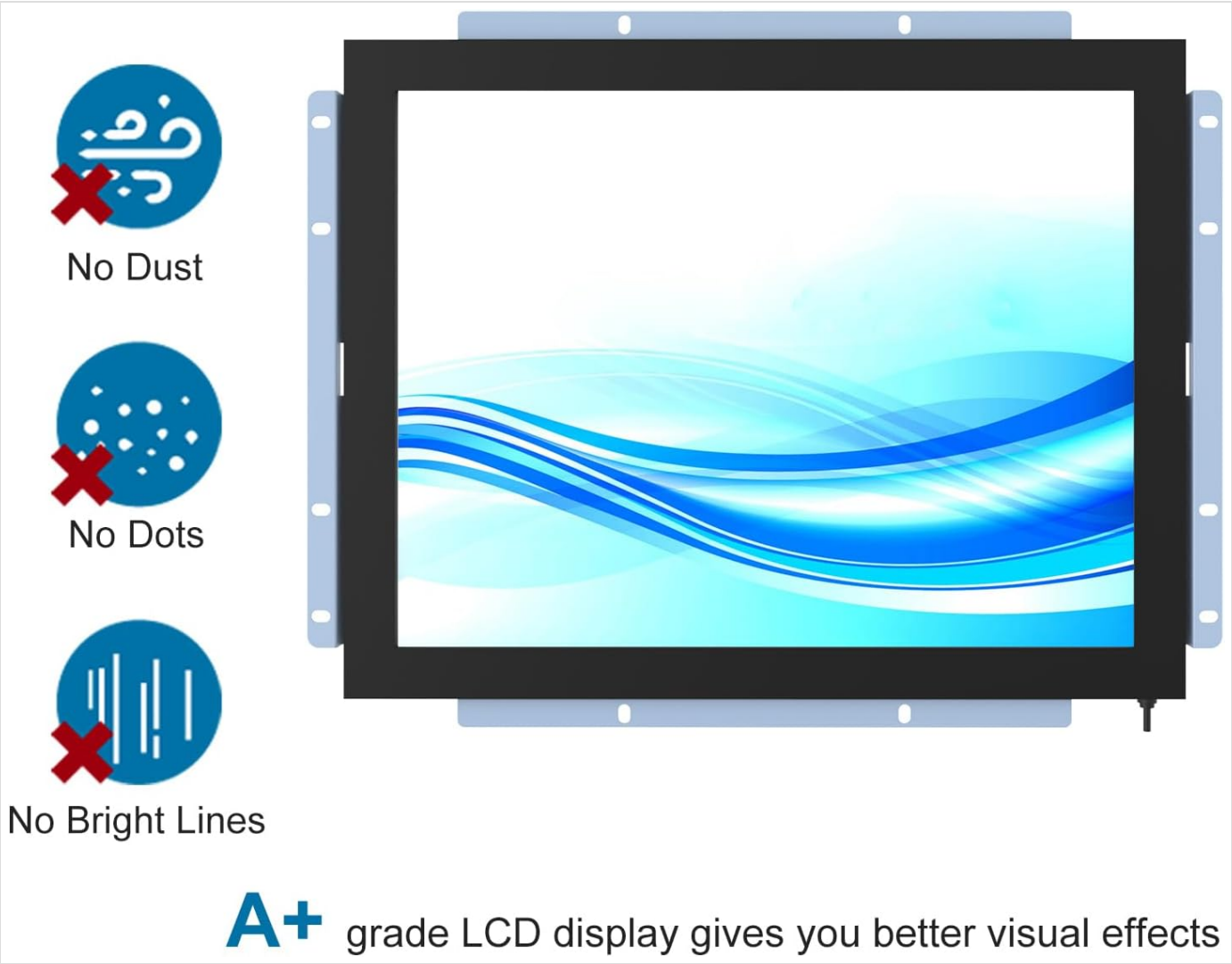


Figure 8: The monitor's display quality is designed to be free from common defects such as dust, dead pixels (dots), and bright lines, ensuring a clear and consistent visual experience.

TROUBLESHOOTING

This section addresses common issues you might encounter with your monitor.

Problem	Possible Cause	Solution
No image on screen	Power cable not connected Video cable not connected or loose Incorrect input source selected Computer in sleep mode	Ensure power cable is securely connected to monitor and outlet. Check video cable (HDMI/VGA/DVI) connections at both monitor and computer. Use OSD menu to select correct input source. Wake up computer or restart it.
Touchscreen not responding	USB touch cable not connected or loose USB port issue on computer Driver issue (rare for basic touch)	Ensure USB Type-B cable is securely connected to monitor and computer. Try a different USB port on your computer. Restart computer. Check device manager for touch device status.

Problem	Possible Cause	Solution
Image is blurry or distorted	Incorrect resolution setting Video cable quality/damage	Set computer's display resolution to 1024x768. Try a different video cable. Adjust OSD settings (e.g., Auto Adjust, Phase, Clock).

SPECIFICATIONS

Feature	Detail
Model Number	GT-TM150
Screen Size	15 Inches
Display Type	TFT LCD
Resolution	1024 x 768 Pixels (XGA)
Aspect Ratio	4:3
Brightness	450 cd/m²
Contrast Ratio	700:1
Viewing Angle	160°
Touch Technology	Infrared (IR) 10-point multi-touch
Video Inputs	HDMI, VGA, DVI
Touch Interface	USB (Type-B)
Audio Ports	Audio In, Earphone Out
Power Input	DC In
Product Dimensions (L x W x H)	1.77 x 13.46 x 10.08 inches
Item Weight	11.88 pounds
Manufacturer	GreenTouch

International Standard
Brightness

LED backlight 50000 hours, long life time

Resolution: 1024*768@60Hz

Brightness: 450 cd/m2

Contrast ratio: 700:1

Display colors: 16.7M

Wide viewing angle 160°

Figure 9: Key display specifications including resolution (1024x768@60Hz), brightness (450 cd/m²), contrast ratio (700:1), display colors (16.7M), and wide viewing angle (160°), indicating compliance with international standards.

WARRANTY AND SUPPORT

For warranty information and technical support, please contact GreenTouch customer service or visit the official GreenTouch website. Keep your purchase receipt as proof of purchase for warranty claims.

GreenTouch US Seller Information:

- Seller Name: GreenTouch US
- Seller ID: A2ZCPHQ4HV0VQC
- Seller Link: [GreenTouch US Seller Page](#)

For general inquiries or to explore other products, visit the GreenTouch Store:[GreenTouch Store](#)