TM-150/170

Industrial Touchscreen Monitor

User's Manual



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Revision History

Revision	Release Date	Description of Change(s)
0.10	30/04/2014	Preliminary release

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Preface

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Using this Manual

Audience and Scope

The TM-150/170 User's Manual is intended for hardware technicians and systems operators with knowledge of installing, configuring and operating industrial grade computers.

Manual Organization

This manual is organized as follows:

Preface: Presents copyright notifications, disclaimers, trademarks, and associated information on the proper usage of this document and its associated product(s).

Chapter 1, Introduction: Introduces the TM-150/170, its features, available models and package contents.

Chapter 2, Specifications: Provides device specifications, mechanical layout and connector pin definitions.

Chapter 3, Installation: Describes how to install the device.

Chapter 4, Touchscreen Controller: Describes how to install the driver for the touch controller.

Chapter 5, On-Screen Display Buttons: Describes how to use the On-Screen-Display (OSD) Controls.

Important Safety Instructions: Presents safety instructions all users must follow for the proper setup, installation and usage of equipment and/or software.

Getting Service: Contact information for ADLINK's worldwide offices.

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Conventions

Take note of the following conventions used throughout this manual to make sure that users perform certain tasks and instructions properly.


NOTE:

Additional information, aids, and tips that help users perform tasks.


CAUTION:

Information to prevent ***minor*** physical injury, component damage, data loss, and/or program corruption when trying to complete a task.


WARNING:

Information to prevent ***serious*** physical injury, component damage, data loss, and/or program corruption when trying to complete a specific task.

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1 Introduction

1.1 Overview

The TM Series of industrial touchscreen monitors is designed for industrial automation and other applications requiring an IP65 compliant touchscreen monitor with analog or digital interfaces.

1.2 Features

- Color active-matrix LCD display
- 15" XGA 1024x768, 17" SXGA 1280x1024
- VGA, DVI and HDMI video inputs
- Built-in 5-wire resistive touch sensor (optional projective capacitive sensor)
- Supports panel and wall mounting (VESA 75/100 mm)
- IP65 compliant front panel
- Wide range 12~24 VDC power input

1.3 Model List

- TM-150: 15” Touchscreen Monitor
- TM-170: 17” Touchscreen Monitor

Model Name	LCD Size	Touchscreen Type	12~24VDC Power Input
TM-150-R	15”	Resistive sensor	—
TM-150-P	15”	Projective capacitive sensor	—
TM-150-RW	15”	Resistive sensor	✓
TM-150-PW	15”	Projective capacitive sensor	✓
TM-170-R	17”	Resistive sensor	—
TM-170-P	17”	Projective capacitive sensor	—
TM-170-RW	17”	Resistive sensor	✓
TM-170-PW	17”	Projective capacitive sensor	✓

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1.4 Package Contents

Please check that your package contains the items below. If you discover damaged or missing items, please contact your vendor.

- TM-150/170 Series Monitor
- 60W power adapter x1
- AC power cable x1
- VGA cable x1
- Touchscreen USB cable x1
- User manual x1
- Driver CD x1



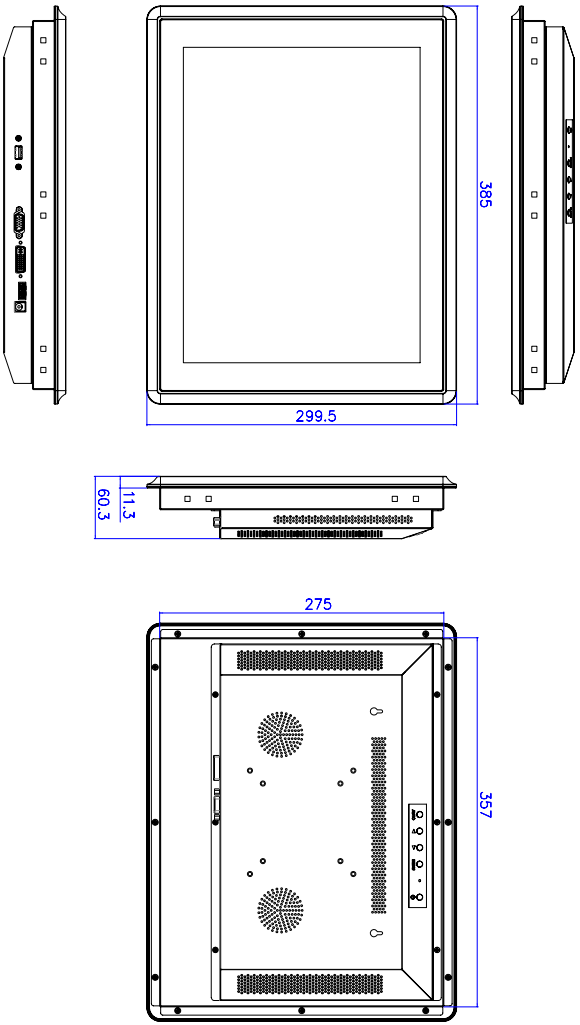
DO NOT install or apply power to equipment that is damaged or if there is missing/incomplete equipment. Retain the shipping carton and packing materials for inspection. Please contact your ADLINK dealer/vendor immediately for assistance. Obtain authorization from your dealer before returning any product to ADLINK.

1.5 Optional Accessories

- TM-PM1 panel mount kit
- TM-WM1 VESA mount kit

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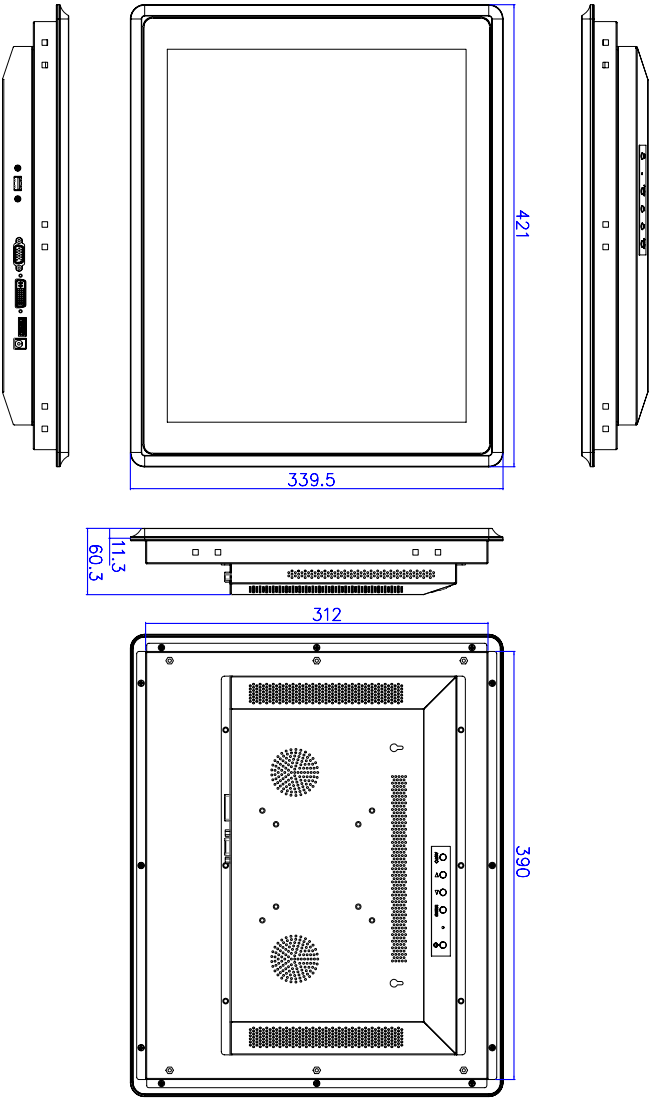
1.6 Mechanical Dimensions



Dimensions in mm

Figure 1-1: TM-150 Board Dimensions

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Dimensions in mm

Figure 1-2: TM-170 Board Dimensions

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2 Specifications

2.1 LCD Panel Specifications

Model	TM-150	TM-170
Display		
Display Size	15"	17"
Resolution	1024x768	1280x1024
Brightness	250 nits (w/o touchscreen)	250 nits (w/o touchscreen)
Contrast Ratio	700:1	1000:1
View Angle (H/V)	170°/160°	170°/160°
Touchscreen Type	5-wire resistive touch sensor (R models) Projective capacitive sensor (P models)	
System Components		
Input Signals	VGA, DVI and HDMI	
Control Buttons	Power, Auto/Source, Menu/Enter, Up, Down	
Mechanical		
Construction	Die-cast aluminum front bezel and steel chassis	
Weight	4.0 kg	4.5 kg
Dimensions (HxWxD)	385 x 299.5 x 60 mm	421 x 339.5 x 60 mm
Mounting Options	VESA mount, MIS-D 75/100 panel mount	
Environmental		
Temperature	Operating: 0°C to 50°C Storage: -20°C to 60°C	
Relative Humidity	10% to 90% @ 40°C (non-condensing)	
Vibration	1G random, 5~500Hz, operating	
Shock	10G acceleration, 11ms, operating	
Ingress Rating	IP65 front panel	
Certifications	CE, FCC	
Power		
Input Voltage	12V DC Power input 12~24V DC Power input (W Model)	
Power Consumption	max. 30W, standby < 4W	max. 30W, standby < 4W

Table 2-1: LCD Panel Specifications

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2.2 Signal Specifications

- Supports vertical refresh rate up to 75Hz for VGA~SXGA+ (1400x1050) and 60Hz for higher resolutions of VESA Standard Timing
- Supports Video Graphics Array (VGA) analog standard input signal
- Automatic detection of separate synchronize and composite synchronize of VGA
- Supports Digital Visual Interface (DVI) signal input
- Supports High-Definition Multimedia Interface (HDMI) input

Mode	Resolution	H Freq.(kHz)	V Freq.(Hz)
1	640x350@70	31.469	70.087
2	640x480@60	31.469	59.940
3	640x480@72	37.861	72.809
4	640x480@75	37.500	75.000
5	720x400@70	31.469	70.087
6	800x600@56	35.156	56.250
7	800x600@60	37.879	60.317
8	800x600@72	48.077	72.188
9	800x600@75	46.875	75.00
10	1024x768@60	48.363	60.004
11	1024x768@70	56.476	70.069
12	1024x768@75	60.023	75.029
13	1280x1024@60	63.980	60.000
14	1280x1024@70	74.882	69.853
15	1280x1024@75	79.976	75.025
16	1440x900@60	59.9	75
17	1440x900@75	75.0	75
18	1680x1050@60	65.3	60
19	1920x1080@60	66.6	60

Table 2-2: TM Series Timing Table

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2.3 Connector Layout

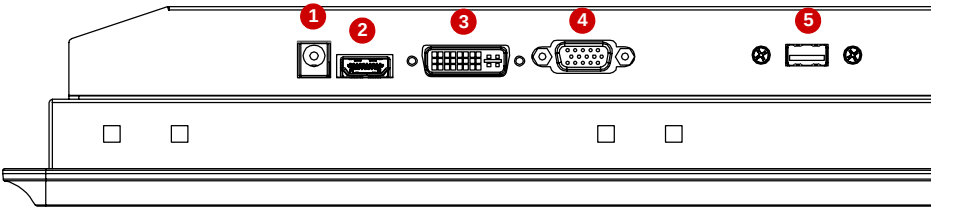


Figure 2-1: TM-150/170 Rear I/O Layout

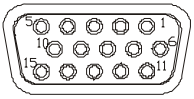
1	DC power input connector
2	HDMI connector
3	DVI connector
4	VGA connector
5	Touchscreen USB connector

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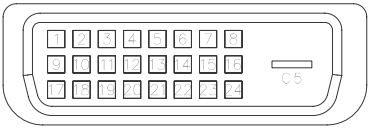
2.4 Pin Definitions

VGA Connector.

Signal Name	Pin #	Pin #	Signal Name
Red	1	2	Green
Blue	3	4	VCC pull-up
GND	5	6	GND
GND	7	8	GND
VCC	9	10	GND
VCC pull-up	11	12	DDC2B DATA
HSYNC	13	14	VSYNC
DDC2B CLK	15		



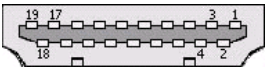
DVI-D Connector



Pin #	Signal	Pin #	Signal
1	DVI_TDC2-N	16	DVI_HTPLG
2	DVI_TDC2-P	17	DVI_TDC0-N
3	GND	18	DVI_TDC0-P
4	NC	19	GND
5	NC	20	NC
6	DDCCLK_5V	21	NC
7	DDCDAT_5V	22	GND
8	NC	23	DVI_TLC-P
9	DVI_TDC1-N	24	DVI_TLC-N
10	DVI_TDC1-P	C1	NC
11	GND	C2	NC
12	NC	C3	NC
13	NC	C4	NC
14	P5V	C5	GND
15	GND		

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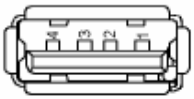
HDMI Connector



Pin #	Signal	Pin #	Signal
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2–	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1–
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0–	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock–
13	CEC	14	Reserved
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5 V Power
19	Hot Plug Detect		

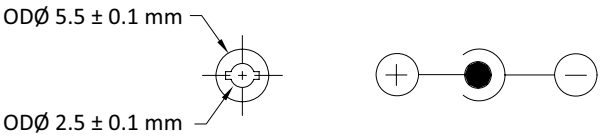
Touch Panel USB Connector

Pin #	Signal Name
1	Vcc
2	UV0-
3	UV0+
4	GND



DC Power Input Connector

▶ 12V DC power input (12~24V DC for “W” model)



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3 Installation

The TM-150/170 can be panel mounted, or wall/tabletop mounted using a VESA 75/100 mm bracket.

3.1 Panel Mounting

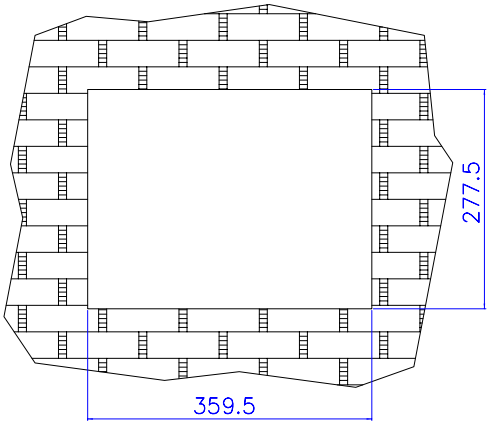
A panel mount kit is available for the TM-150/170. Please contact your ADLINK representative (model no.: TM-PM1).

Make sure there is adequate space behind the panel for ventilation, and that the panel material and thickness can support the weight of the monitor.

NOTE: The mounting brackets can accommodate a maximum panel thickness of 4mm.

1. Cut the panel opening by using the appropriate cutout dimensions shown in Figure 3-1 and Figure 3-2 below.

TM-150 Panel Cutout

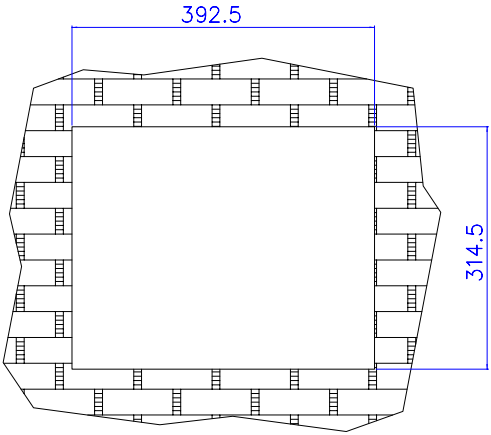


Dimensions in mm

Figure 3-1: TM-150 Panel Mount Cut-out

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TM-170 Panel Cutout



Dimensions in mm

Figure 3-2: TM-170 Panel Mount Cut-out

2. Attach cables to the monitor before installing into the panel if rear access to the monitor will be limited after installation (see “Connector Layout” on page 7.).
3. Place the monitor into the panel cutout.
4. Insert the mounting brackets into the slots on the sides of the monitor as shown in Figure 3-3 below.
5. Hand-tighten the mounting brackets to secure it to the panel. Do not overtighten the brackets to avoid damaging the monitor enclosure.

CAUTION:

Do not overtighten the brackets as this may damage the monitor enclosure.Always tighten the mounting brackets BY HAND to secure it to the panel.

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Panel Mount Bracket Installation

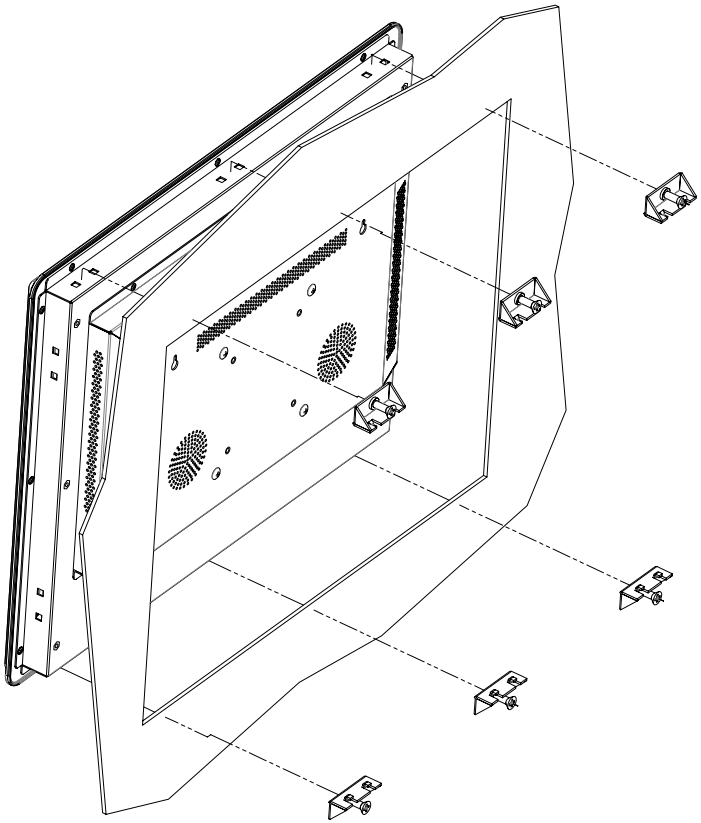


Figure 3-3: Panel Mount Bracket Installation

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3.2 VESA Mounting

A VESA mount kit is available for the TM-150/170. Please contact your ADLINK representative (model no.: TM-WM1).

1. Place the monitor onto the VESA 75/100mm bracket. Insert the four screws supplied with the TM-WM1 VESA mount kit into the VESA mounting holes in the back of the monitor (see Figure 3-4 below, VESA 100mm mounting holes shown).
2. Tighten the screws to secure the monitor to the VESA mount bracket.

VESA Mount Installation

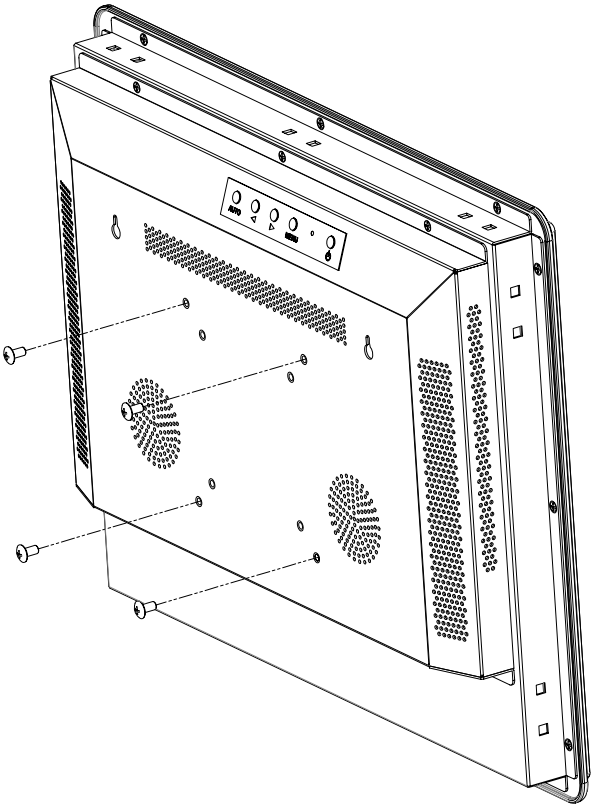


Figure 3-4: VESA Mount Installation

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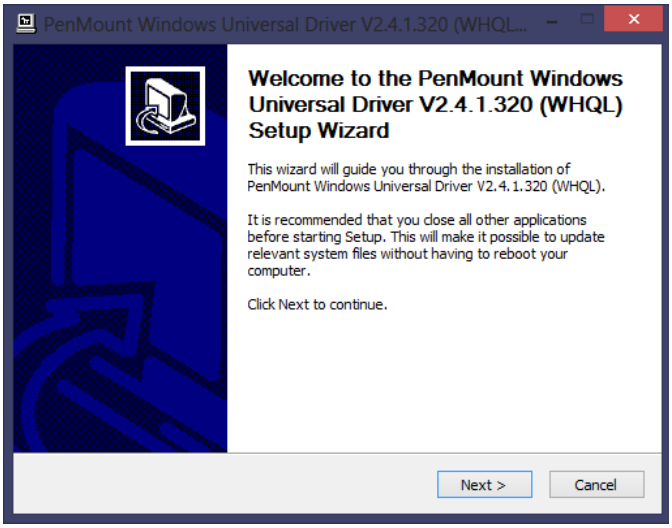
4 Touchscreen Controller

The TM-150/170 touchscreen controller drivers can be downloaded from the ADLINK website (**http://www.adlinktech.com**). Instructions for installing the Windows 7 drivers are given below.

4.1 Resistive Touchscreen Controller

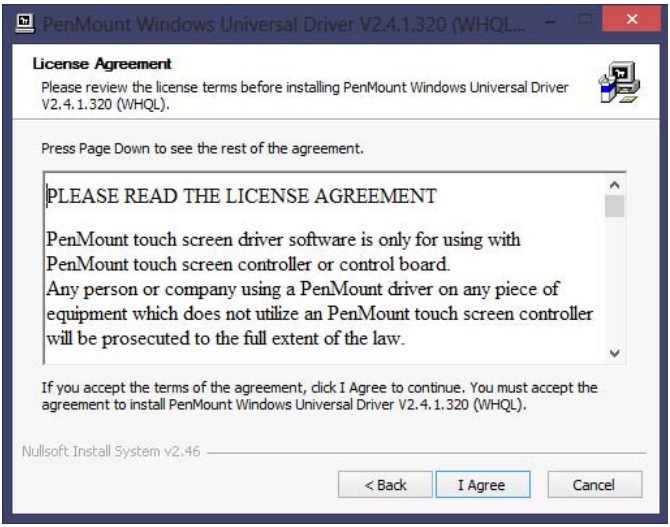
Driver Installation

1. Use the USB cable included with the touchscreen monitor to connect the USB connector on the monitor to a USB port on your system (see “Connector Layout” on page 7.)
2. Install the resistive touchscreen controller driver by extracting the contents of the archive **PenMount Windows Universal Driver V2.4.1.320(WHQL).zip** and running the program “Setup.exe”. Click “Next to continue.

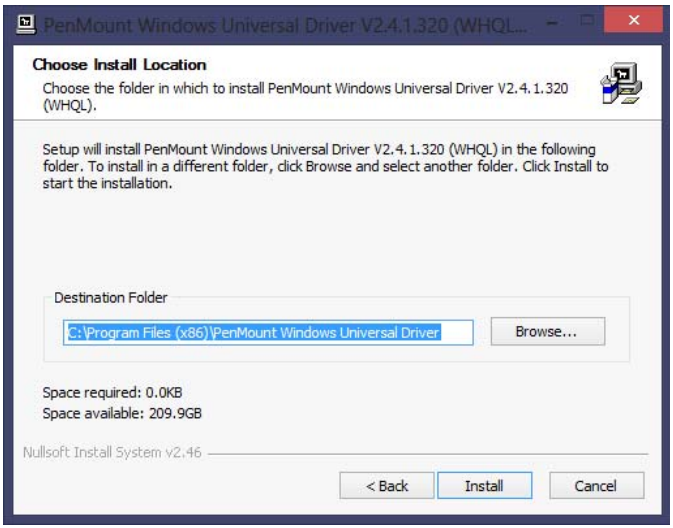


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3. Click “I Agree” on the license agreement page to proceed with the driver installation.

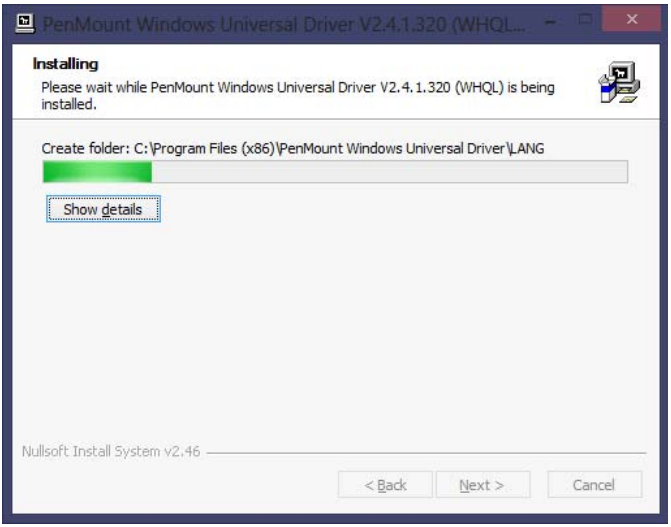


4. Browse to the desired installation location or use the default location. Click “Install” to continue.

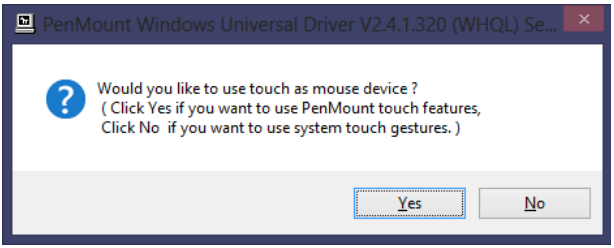


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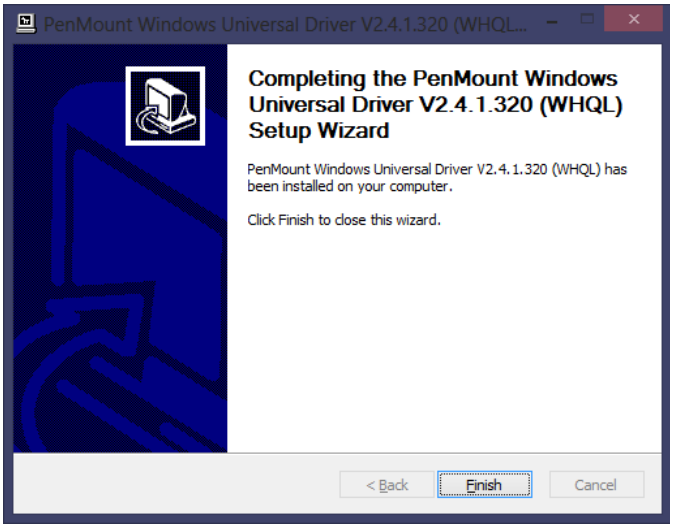
5. Driver installation will begin.



6. To use the touchscreen as a mouse device, click “Yes”.



7. The resistive touchscreen driver is now installed on your system.

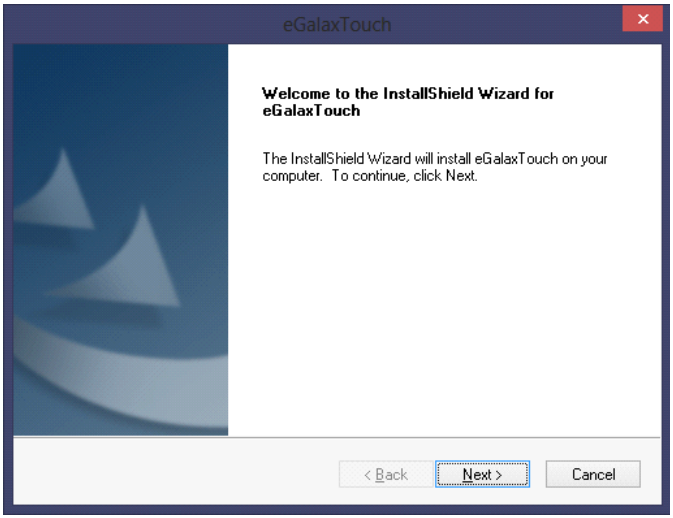


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4.2 Projective Capacitive Touchscreen Controller

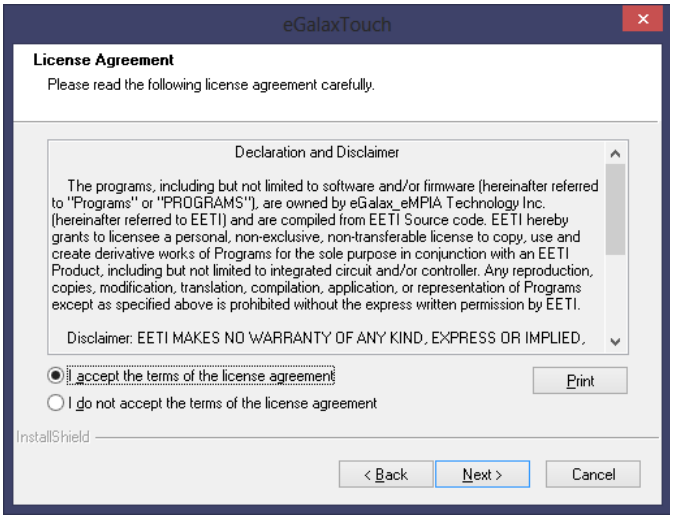
Driver Installation

1. Use the USB cable included with the touchscreen monitor to connect the USB connector on the monitor to a USB port on your system (see “Connector Layout” on page 7.)
2. Install the capacitive touchscreen controller driver by extracting the contents of the archive **eGalaxTouch_ 5.12.0.12204-Release131204-ForPCAP.zip** and running the program “setup.exe”. Click “Next to continue.

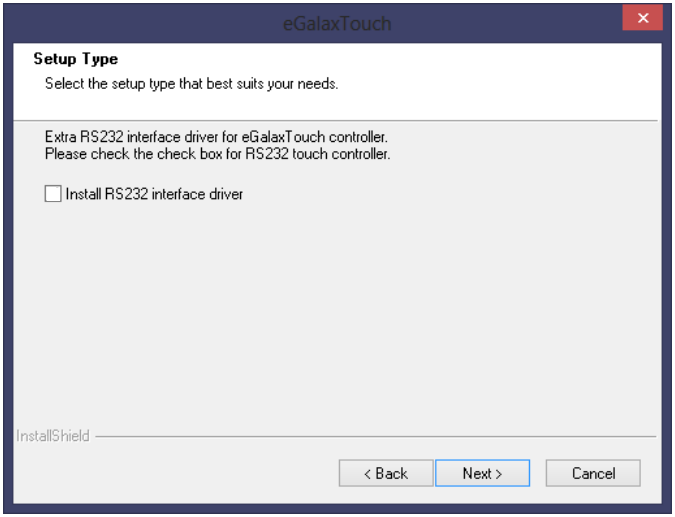


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3. Select the “I accept the terms of the license agreement” radio button and click “Next” to continue.

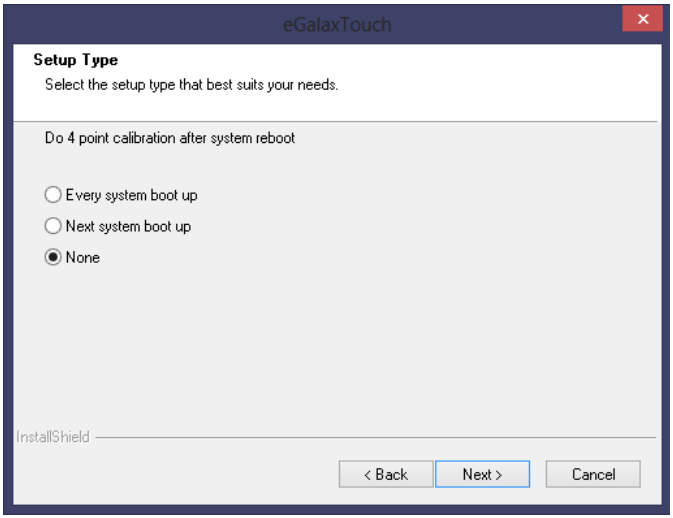


4. Leave the box to install the RS-232 interface driver unchecked. Click “Next” to continue.

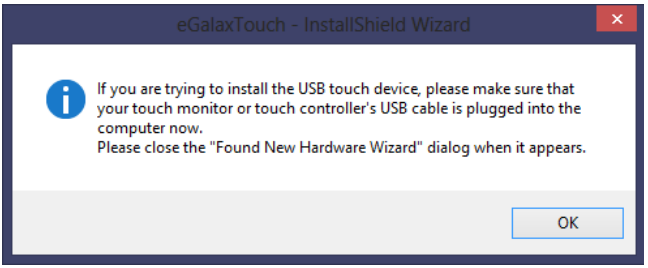


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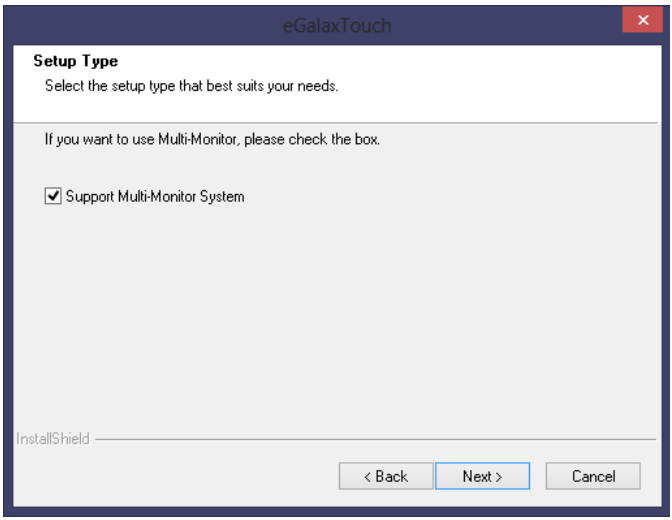
5. No calibration is required. Select the “None” radio button and click “Next” to continue.



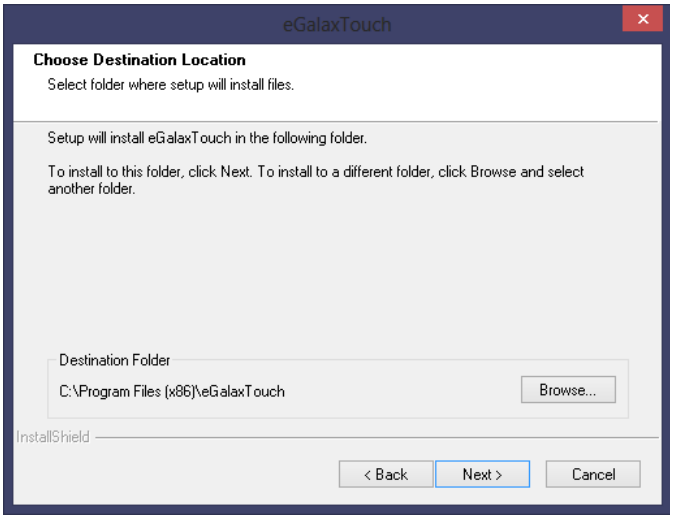
6. Make sure the touchscreen monitor is connected to a USB port on your system (see “Connector Layout” on page 7.). If you are connecting it now, close the “Found New Hardware Wizard” dialog when it appears.



7. Tick the box next to “Support Multi-Monitor System” if you have more than one display in your system.

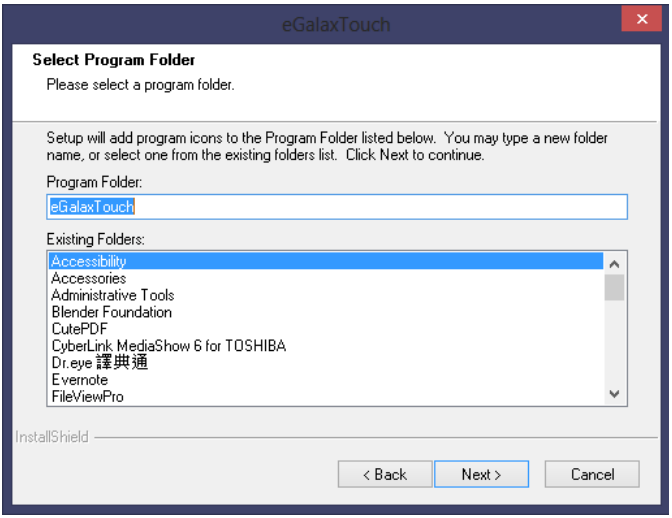


8. Browse to the desired installation location or use the default location. Click “Next” to continue.

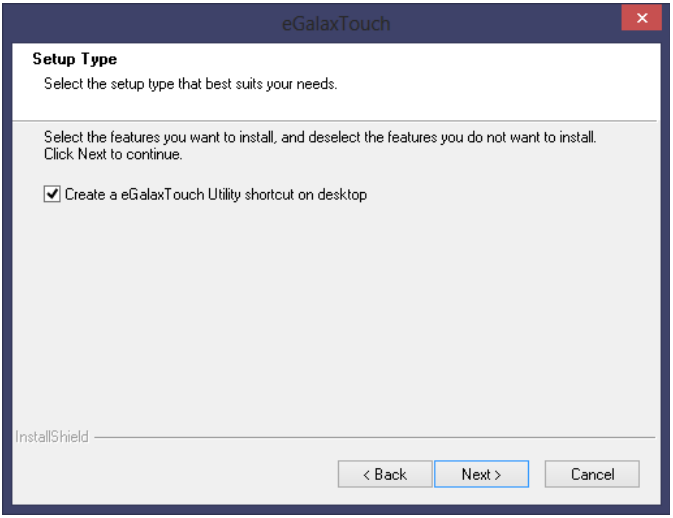


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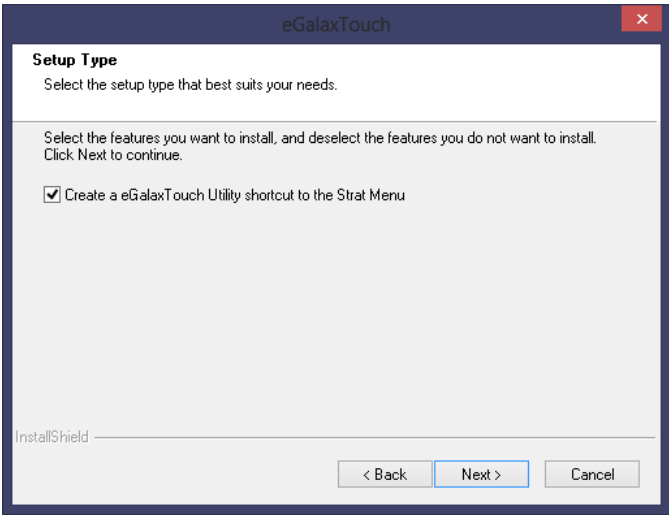
9. Choose a name for the program folder or use the default setting. Click “Next” to continue.



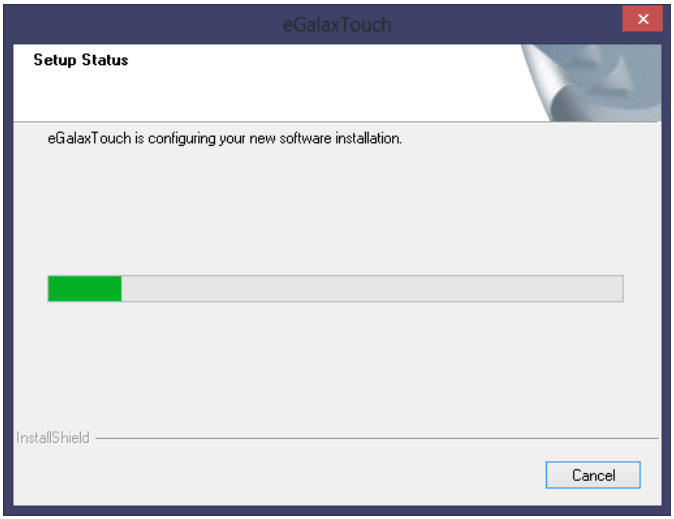
10. Tick the box to create a touchscreen utility shortcut on the desktop. Click “Next” to continue.



11. Tick the box to create a touchscreen utility shortcut in the Start Menu. Click “Next” to continue.



12. Projective capacitive touchscreen controller driver installation will now complete.



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5 On-Screen Display Buttons

5.1 OSD Control Buttons

Figure 5-1 shows the locations of the OSD controls for the TM Series monitor.

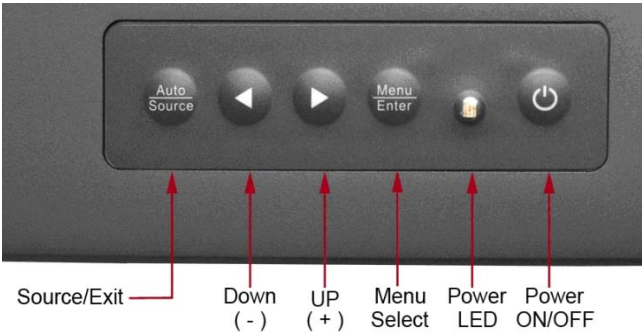


Figure 5-1: OSD Control Buttons

Icon	Control Key	Function
	Power	Power On/Off
	Menu/Enter	Menu Select
	Up (+)	Increase the value of the selected item
	Down (-)	Decrease the value of the selected item
	Auto/Source	Automatically adjusts H-Position, V-Position, Pixel, Clock and Phase for an optimal image.

Table 5-1: OSD Control Buttons List

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5.2 OSD Control Function List

Press the “Menu/Enter” button to bring up the main OSD menu (Figure 5-2). Press “Up” or “Down” to choose the item you wish to set, then press “Menu” to select the item. Use “Up” or “Down” to select the item you wish to set in the submenu, then press "Menu” to select the item. Use “Up” or “Down” to adjust the value, then press “Auto/Source” to return previous page or to exit the OSD menu.



Figure 5-2: OSD Main Menu

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Table 5.3 shows the structure of OSD menus for the TM Series.

Level 1	Level 2	Values
Color	Contrast	0 ~ 100
	Brightness	0 ~ 100
	Color Adjust	Red, Green, Blue
	Color Temp	9300, 6500, 5800, User
	Auto Color	--
Image Setting	Clock	0 ~ 100
	Phase	0 ~ 100
	Sharpness	0 ~ 4
	H. Position	0 ~ 100
	V. Position	0 ~ 100
OSD Menu	OSD H.Pos	0 ~ 100
	OSD V.Pos	0 ~ 100
	OSD Timer	0 ~30 sec.
	Language	English, French, German, Spanish, Traditional Chinese, Simplified Chinese, Japanese
Signal Source		D-SUB (VGA), DVI, HDMI, Auto Search
Audio		Optional
Reset		Reset to factory settings

Table 5-2: OSD Menu Structure

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5.3 Color Adjustment

Table 5-3 shows the Color Adjustment menu.



Figure 5-3: Color Adjustment Menu

- **Contrast:** Adjust the contrast values from 0 to 100
- **Brightness:** Adjust the brightness values from 0 to 100
- **Color Adjust:** Adjust the Color for Red, Green and Blue
- **Color Temp:** Select 9300, 6500, 5800 or User mode for color temperature
- **Auto Color:** Auto adjust the color

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5.4 Image Settings

Figure 5-4 shows the Image Settings menu.

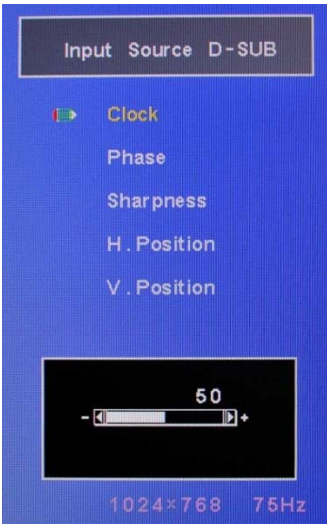


Figure 5-4: Image Setting Menu

- **Clock:** Adjust the Clock values from 0~100
- **Phase:** Adjust the Phase values from 0~100
- **Sharpness:** Adjusts the Sharpeness value from 0 to 4
- **H-Position:** Move the screen to right or left from 0~100
- **V-Position:** Move the screen to up or down from 0~100

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5.5 OSD Settings Menu

Figure 5-5 shows the OSD Settings menu.

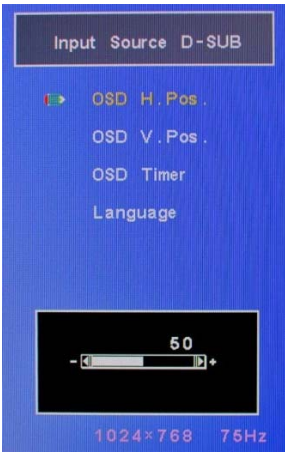


Figure 5-5: OSD Settings Menu

- **OSD H.Pos:** Adjust the OSD horizontal position on the screen
- **OSD V.Pos:** Adjust the OSD vertical position on the screen
- **OSD Timer:** Adjust the time the OSD menu is displayed (0~30 sec.)
- **Language:** Change the OSD language.



Figure 5-6: OSD Language Menu

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5.6 Signal Source

Figure 5-7 shows the Signal Source menu.



Figure 5-7: Signal Source Menu

- **D-SUB** (VGA)
- **DVI**
- **HDMI**
- **Auto Search**

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Important Safety Instructions

For user safety, please read and follow all **instructions**, **WARNINGS**, **CAUTIONS,** and **NOTES** marked in this manual and on the associated equipment before handling/operating the equipment.

- Read these safety instructions carefully.
- Keep this user's manual for future reference.
- Read the specifications section of this manual for detailed information on the operating environment of this equipment.
- When installing/mounting or uninstalling/removing equipment:
  - Turn off power and unplug any power cords/cables.
- To avoid electrical shock and/or damage to equipment:
  - Keep equipment away from water or liquid sources;
  - Keep equipment away from high heat or high humidity;
  - Keep equipment properly ventilated (do not block or cover ventilation openings);
  - Make sure to use recommended voltage and power source settings;
  - Always install and operate equipment near an easily accessible electrical socket-outlet;
  - Secure the power cord (do not place any object on/over the power cord);
  - Only install/attach and operate equipment on stable surfaces and/or recommended mountings; and,
  - If the equipment will not be used for long periods of time, turn off and unplug the equipment from its power source.

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- Never attempt to fix the equipment. Equipment should only be serviced by qualified personnel.
- Equipment must be serviced by authorized technicians when:
  - The power cord or plug is damaged;
  - Liquid has penetrated the equipment;
  - It has been exposed to high humidity/moisture;
  - It is not functioning or does not function according to the user's manual;
  - It has been dropped and/or damaged; and/or,
  - It has an obvious sign of breakage.

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Contact us should you require any service or assistance.

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