



**MMT175**  
**17" TFT Medical Grade LCD Monitor**

**User's Manual**



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## Safety Approvals

- ◆ CE Marking
- ◆ UL60601-1
- ◆ EN60601-1
- ◆ FCC Class B

### ◆ FCC Compliance

This equipment has been tested in compliance with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are meant to provide reasonable protection against harmful interference in a residential installation. If not installed and used in accordance with proper instructions, this equipment might generate or radiate radio frequency energy and cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment to another outlet of a circuit that doesn't connect with the receiver.
4. Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with the emission limits.

## Safety Precautions

Before getting started, please read the following important safety precautions.

1. The **MMT175** does not come equipped with an operating system. An operating system must be loaded first before installing any software into the computer.
2. Be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and place all electronic components in any static-shielded devices. Most electronic components are sensitive to static electrical charge.
3. Disconnect the power cord from the **MMT175** before any installation. Be sure both the system and external devices are turned OFF. A sudden surge of power could ruin sensitive components that the **MMT175** must be properly grounded.
4. The brightness of the flat panel display will be getting weaker as a result of frequent usage. However, the operating period varies depending on the application environment.
5. Turn OFF the system power before cleaning. Clean the system using a cloth only. Do not spray any liquid cleaner directly onto the screen. Although the touchscreen is chemical resistant, it is recommended that you spray the liquid cleaner on a cloth first before wiping the screen.
6. Avoid using sharp objects to operate the touchscreen. Scratches on the touchscreen may cause malfunction or internal failure to the touchscreen.
7. The flat panel display is not susceptible to shock or vibration. When assembling the **MMT175**, make sure it is securely installed.
8. Do not open the system's back cover. If opening the cover for maintenance is a must, only a trained technician is allowed to do so. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:

- Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.
- When handling boards and components, wear a wrist-grounding strap, available from most electronic component stores.

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# CHAPTER 1 INTRODUCTION

This chapter contains the general information and detailed specifications of the **MMT175**. Chapter 1 includes the following sections:

- **General Description**
- **Specification**
- **Dimensions**
- **I/O Outlets**
- **Package List**

## 1.1 General Description

The MMT175 is a Medical Grade LCD Monitor. It adopts a 17" 300nits SXGA LCD display, and numerous signal interfaces including DVI, VGA, S-Video, Video, Audio-in and 3 USB (1 slave, 2 hosts). There is an OSD function making you ease adjustment on screen image. The MMT175 has more comfort, safety, and environmental protection for humanized & health consideration those would be the benefit that users can get.

### ➤ **Medical-grade Product Design**

The features of the MMT series are low-noise operation, low-power consumption and high reliability. And the MMT175 conforms UL60601-1, EN60601-1 and FCC class B. Thus, it is best suited for medical environment applications.

➤ **Spill and dust resistant**

The MMT175 has water-proof design of the IP65 front panel and IPx1 whole enclosure so the entire system is protected from water drip damages.

➤ **Multi-Display Mode supports**

Support VGA (640 x 480), SVGA (800 x 600), XGA (1024 x 768), SXGA (1280 x 1024).

➤ **Multi-signal inputs**

Support VGA, S-video, video, DVI, Audio-in, 3 USB ports (2 × type A, 1 × type B), so the MMT175 can receives TV and PC signals.

## **1.2 Package List**

When you receive the **MMT175**, the bundled package should contain the following items:

- MMT175 x 1
- Driver CD x1
- Medical Power Adapter x1
- USB cable x 1
- Audio cable x 2
- VGA cable x 1
- Wall mount kit
- Desktop Stand Kit (optional)
- VESA ARM(optional)

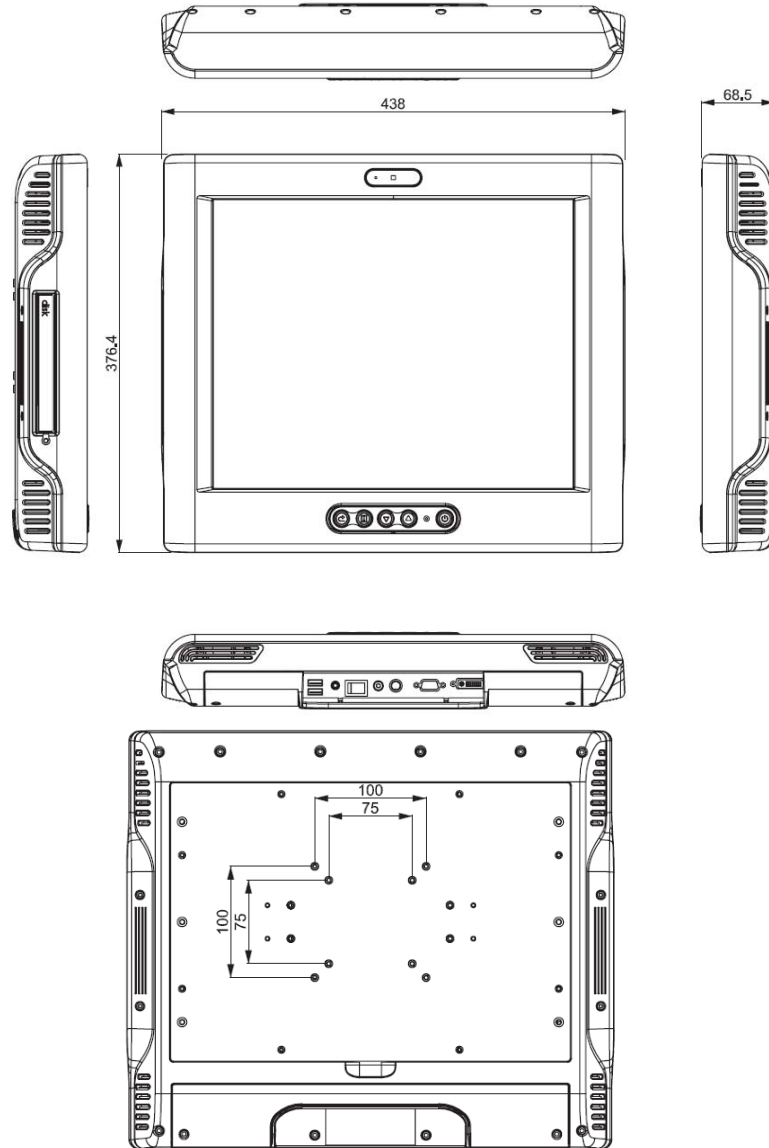
If you can not find the package or any items are missing, please contact AXIOMTEK distributors immediately.

## 1.3 Specifications

- **Display Tyep:** 17" TFT LCD
- **Max. Resolution:** 1280 x1024
- **Brightness:** 300nits
- **Max. Colors:** 16.7M
- **View Angle:** H:160° / V:160°
- **Front Bezel:** Plastic ABC
- **Control: OSD** (On Screen Display) control pad on front side
- **IO outlets**
  - 1 x Audio, 1 x VGA, 1 x DVI, 1 x USB (Slave, for DSC, T/S)
  - 2 x USB (Host), 1 x Video, 1 x S-Video
- **Mounting:** Support Wall mount and VESA FPMPMI mounting.
- **Operating Temperature Range:** 0°C ~ 45°C
- **Relative Humidity:** 20% ~ 90%; non-condensing
- **Vibration:** 5 to 500 Hz, 2.0 G random

## 1.4 Dimensions

This diagram shows you dimensions and outlines of the **MMT175**.



## 1.5 I/O Outlets

Please refer to the following illustration for I/O locations of the MMT175.



No	Function
1	Camera
2	Auto-Adjusted / Return
3	Menu
4	SEL+ / SEL-
5	Power LED

6	Monitor Switch
7	Audio(Line-out)
8	DVI
9	VGA
10	S-video
11	Video
12	Power switch
13	Audio (Mic-in)
14	USB2.0 × 2
15	USB (type B)
16	DC-in power connector

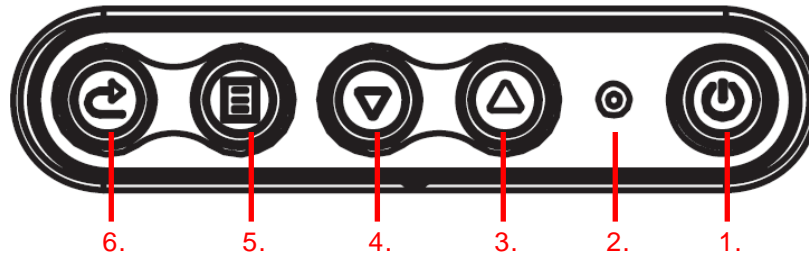
## CHAPTER 2 SYSTEM SETUP

This chapter details the system parts and components with figures. It includes:

- **System Configuration**
- **OSD Setting**
- **Wall Mount / VESA / Desktop Stand methods**

### 2.1 System Configuration

The **MMT175** provides display control on screen display. The descriptions of the functions are listed below.



1. **Monitor switch:** Press this button to turn on/off the monitor.
2. **Power LED:** When the light is green, the power is on, flash when the power is turn off.
3. **SEL+:** To increase the value of selected item.
4. **SEL-:** To decrease the value of selected item.

5. **Menu:** Press this button to turn on/off the OSD (On Screen Display).
6. **Auto-Adjusted / Return:** This button is auto image adjustment and return.

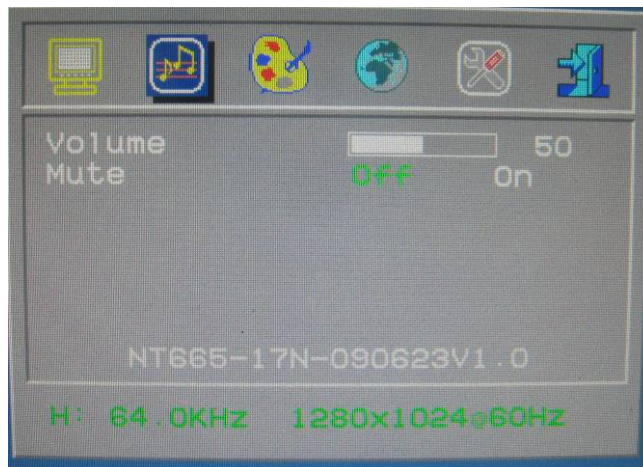
## 2.2 OSD Setting

The MMT175 provides OSD (On Screen Display) to adjust brightness, contrast, clock...et al. Please follow the steps are listed as below.

1. Please press the "Menu" button on the OSD keypad. You could see General menu. If you want to adjust sub-item, you could press the "Menu" button on the OSD keypad.



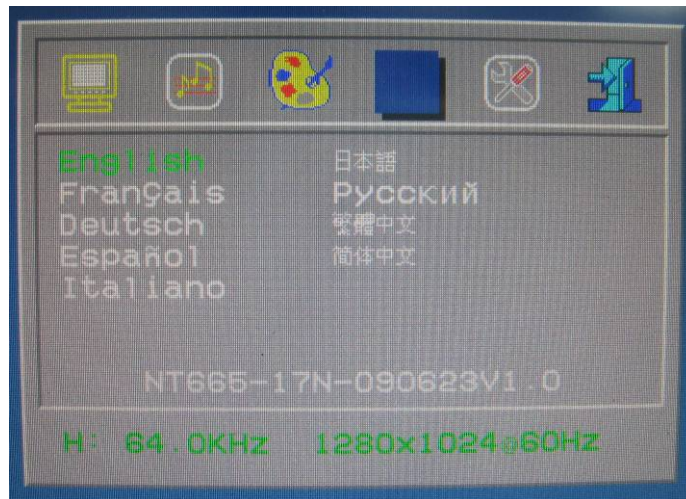
2. Please press the "SEL-"button on the OSD keypad. You will entry Audio menu. You could adjust volume or mute.



3. Please press the "SEL-"button on the OSD keypad. You will entry Color menu. If you want to adjust sub-item, you could press the "Menu" button on the OSD keypad.

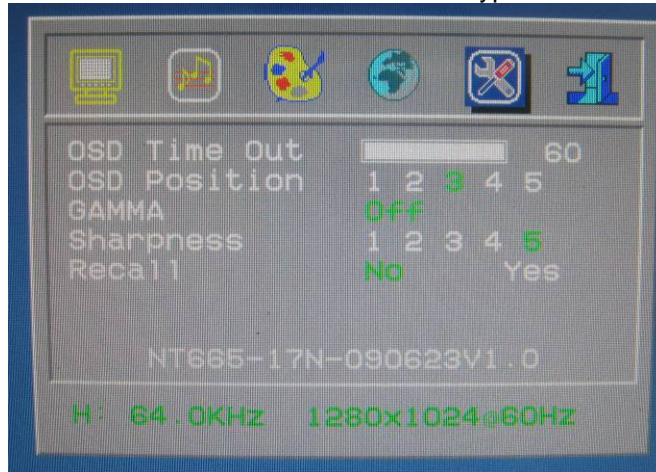


4. Please press the "SEL-"button on the OSD keypad. You will entry Languages menu. MMT175 support 8 languages (English, French, German, Spanish, Italian, Japanese, Russian and Chinese).

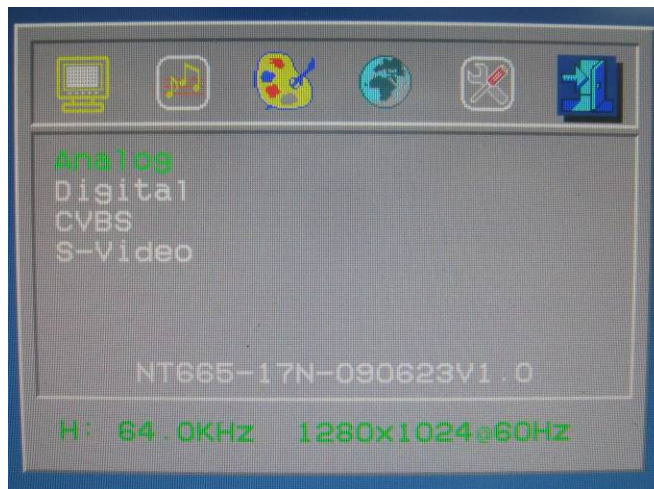


5. Please press the "SEL-"button on the OSD keypad. You will entry

Tools menu. If you want to adjust sub-item, you could press the "Menu" button on the OSD keypad.



6. Please press the "SEL-"button on the OSD keypad. You will entry Exit menu. If you want to leave the OSD, you would press "menu".



## 2.3 Mount Methods

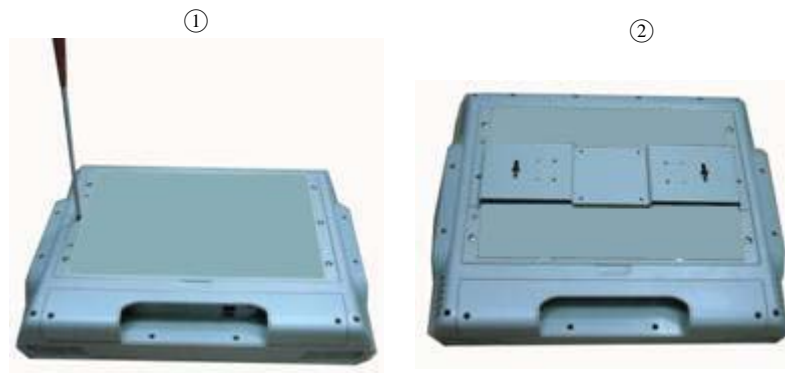
There are several mounting ways for the MMT175, Wall, VESA and Desktop mountings.

### 2.3.1 Wall Mount

The MMT175 provides wall mount kit. Please follow the steps as below. Prepare all parts for installing the wall mount kit.

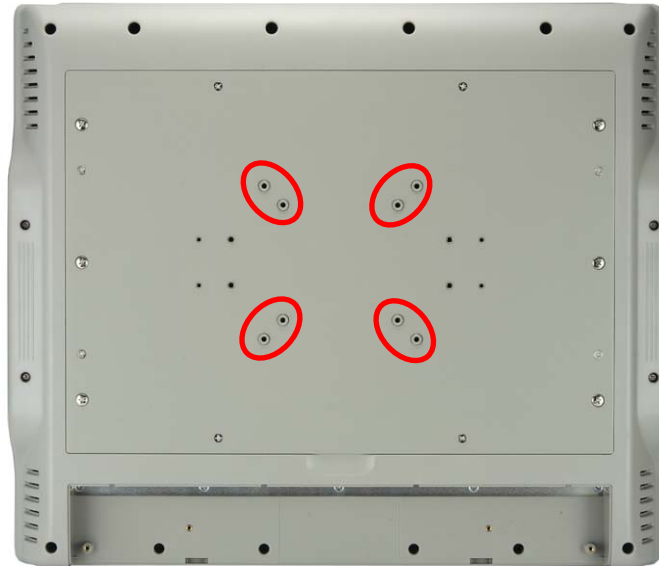


**Step 2** Assemble the wall mount kit by using screws to fix the back.



### **2.3.2 VESA mount**




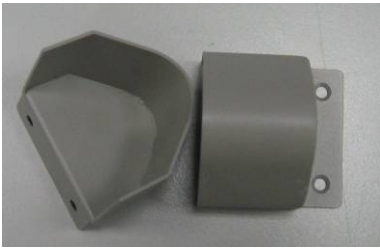
The MMT175 provides two types of VESA mount, 75mm x 75mm and 100mm x 100mm.



### 2.3.3 Desktop Stand

The MMT175 provides desktop stand (optional) that customer can install as below.

**Step 1** Prepare the parts of desktop stand.

Screw A	Screw B
	
Screw C	Hinge Cover
	

**Step 2** Assemble the desktop stand. Fix the screws as marked on the bottom side of chassis. (Use Screw A)



**Step 3** Fix the screws as marked on the back side of chassis (Use Screw B).



**Step 4** Assemble the hinge cover and fix the screws as marked on the back side of chassis (Use Screw C).



**Step 5** Finish.



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## CHAPTER 3 DRIVERS INSTALLATION

### 3.1 System

MMT175 supports Windows XP. To facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing. The installation method of the touch and Bluetooth (optional) are listed below.

### 3.2 Touch Screen

The MMT175 uses the 5-wire analog resistive. There are the specification and driver installation which are listed below.

#### 3.2.1 Specification

<b>Touch Screen</b>	5-wire Analog Resistive type
<b>Touch Screen Controller</b>	PenMount 6000 USB Touch Screen Controller IC
<b>Communications</b>	USB interface
<b>Resolution</b>	1024 x 1024 (10 bit A/D converter inside)
<b>Power Input</b>	5V
<b>Power Consumption</b>	Active: 24.6mA / Idle Mode: 13.4mA

### 3.2.2 Driver Installation- Windows XP

The MMT175 provides a touch screen driver that users can install it under the operating system Windows XP. To facilitate installation of the touch screen driver, you should read the instructions in this chapter carefully before you attempt installation.

1. Insert Driver CD and follow the path to select the “\Drivers\XP\Step 1 - Touch”.

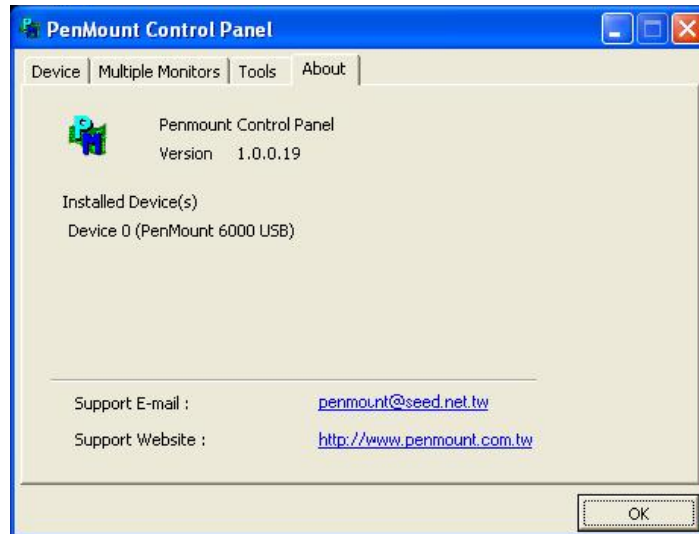


2. Double click the icon –“Setup”.



3. Follow the installing procedure and press OK.

- Click Start menu and select "PenMount Utilities"; and then, a "PenMount Control Panel" pops out.

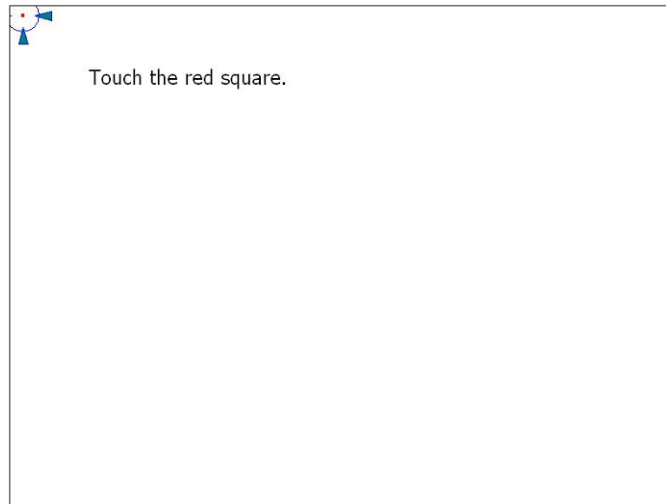


- Select the "Standard Calibrate" tab.



- Calibration:

To adjust the display with touch panel, click "Calibration" and follow the calibrate point to do calibration; there are five points on screen for calibration.



7. Press OK.

### **3.3 Bluetooth (optional)**

The MMT175 provides users to extra add Bluetooth function. Users can install the Bluetooth driver under the operating system Windows XP. To facilitate installation of the touch screen driver, you should read the instructions in this chapter carefully before you attempt installation.

1. Insert Driver CD and follow the path to select the “\Drivers\XP\Step 2 - Bluetooth (optional)”.



Step 2 - Bluetooth  
(optional)

2. Double click the icon –“Setup”.



setup

3. Follow the installing procedure and press OK.