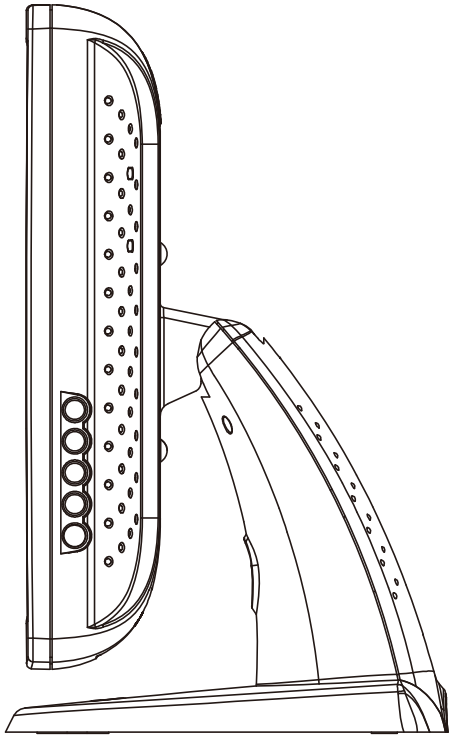
Glancetron GT-19Plus

USER's GUIDE



Touch Screen LCD Monitors

Rev.A

GLANCETRON

www.glancetron.com

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The test results show that this device meets the FCC rules. Those limits are set to protect residential areas from the devices with harmful emission. This device will produce, use and radiate radio frequency energy. In addition, failure to follow the user's manual to install or use this device might produce harmful interference with radio communication. Not withstanding the foregoing, it does not guarantee that this type of harmful interference does not occur in some special installations. The interference caused by this device to the reception of radio or television signals may be verified by turning it on and off. Any changes or modifications to this TFT LCD would void the user's authority to operate this device.

Important Recycle Instruction:

Hg Lamp(s) inside this product contains mercury. This product may contain other electronic waste that can be hazardous if not disposed of properly. Recycle or dispose in accordance with local, state, or federal Laws. For more information, contact the Electronic Industries Alliance at WWW.EIAE.ORG. For lamp specific disposal information check WWW.LAMPRECYCLE.ORG.

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Usage Notice

Warning - To prevent the risk of fire or shock hazards, do not expose this product to rain or moisture.

Warning - Please do not open or disassemble the product as this may cause electric shock.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user's manual to maximize the life of your unit.

Do:

- Turn off the product before cleaning.
- Touch screen surface may be cleaned using a soft clean cloth moistened with mild window glass commercial cleaners or 50/50 mixture of water and isopropyl alcohol.
- Use a soft cloth moistened with mild detergent to clean the display housing.
- Use only high quality and safety approved AC/DC adapter.
- Disconnect the power plug from AC outlet if the product is not going to be used for an extended period of time.

Don't:

- Do not touch the LCD Display screen surface with sharp or hard objects.
- Do not use abrasive cleaners, waxes or solvents for your cleaning.
- Do not operate the product under the following conditions:
  - Extremely hot, cold or humid environment.
  - Areas susceptible to excessive dust and dirt.
  - Near any appliance generating a strong magnetic field.
  - In direct sunlight.

Introduction

About Glancetron GT-19Plus

The Glancetron GT-19Plus is a 19" flat panel screen with an active matrix, thin-film transistor (TFT) liquid crystal display (LCD).

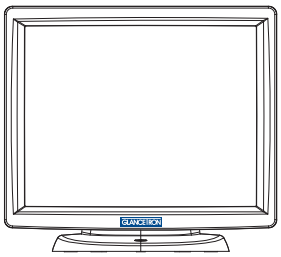
Features include:

- Direct Analog signal input
- Direct Digital signal input
- Active matrix TFT LCD technology
- 1280 x 1024 SXGA resolution
- 19" viewable display area
- 31.47 ~ 80 KHz horizontal scan
- 56 ~ 75 Hz high refresh rate
- 0.294mm x 0.294mm pixel pitch
- Auto adjustment function
- Multilingual OSD user control
- Kensington security slot
- 100 mm VESA mount
- Removable base for flexible mounting solutions.
- Glancetron GT-19Plus - 5-wire resistive touch screen with combo RS-232 Serial/USB controller
- Built-in speakers-1W x 2

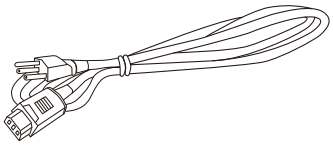
Touch Screen for Glancetron GT-19Plus

- 5-wire resistive touch screen for finger and stylus input
- Surface: Anti-glare treatment
- Interface: Combo RS-232 Serial/USB controller
- Transmittance: 82±5%
- Driver: Windows® 7, VISTA, XP, 2000, ME, 98, NT4.0, CE, XP Embedded, Linux, Apple® Mac OS

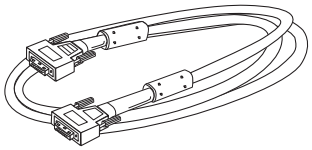
Package Overview



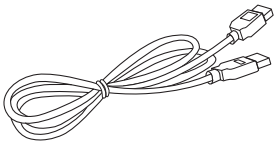
LCD Display



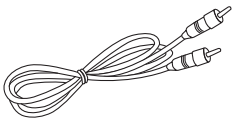
Power Cord



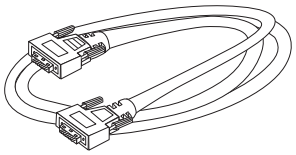
VGA Signal Cable



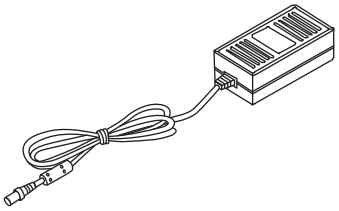
USB Cable (A to B)



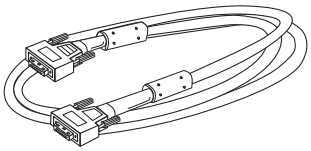
Audio-in Cable



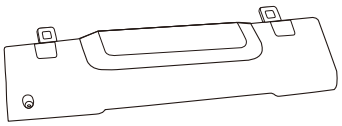
RS-232 Cable
(for combo model only)



DC Power Supply
(sold separately)



DVI-D Cable



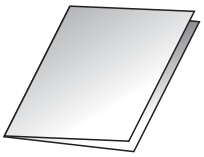
Cable Cover



Screw



Touch Driver CD

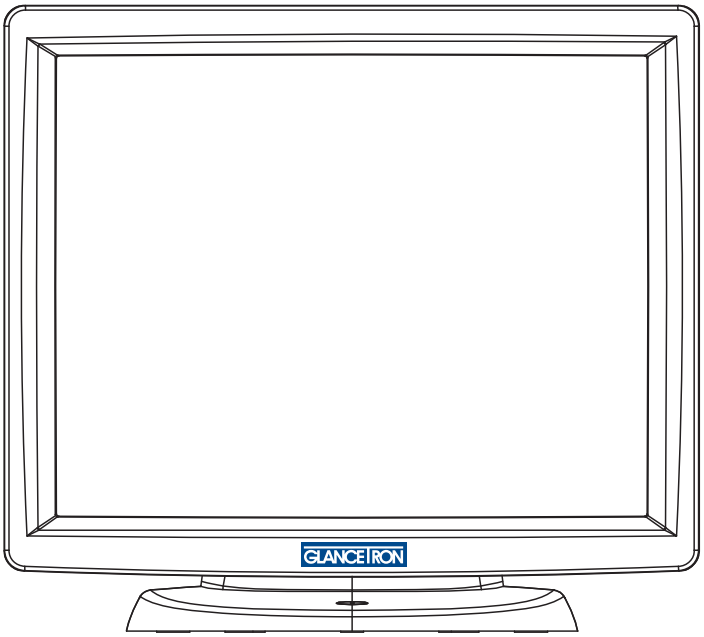


Quick Start Guide

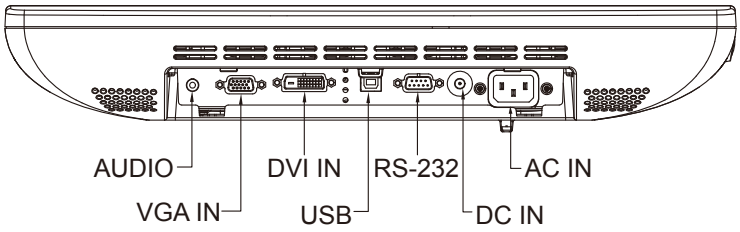
Installation

Product Overview

- **Front View**

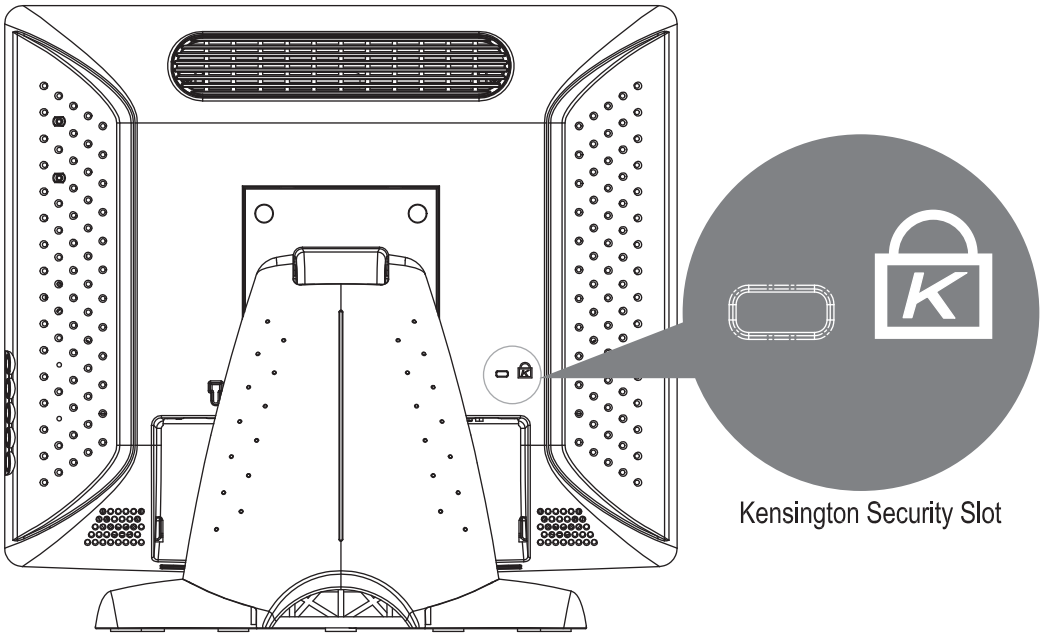


- **Bottom View (Without Stand)**



Kensington Security Slot

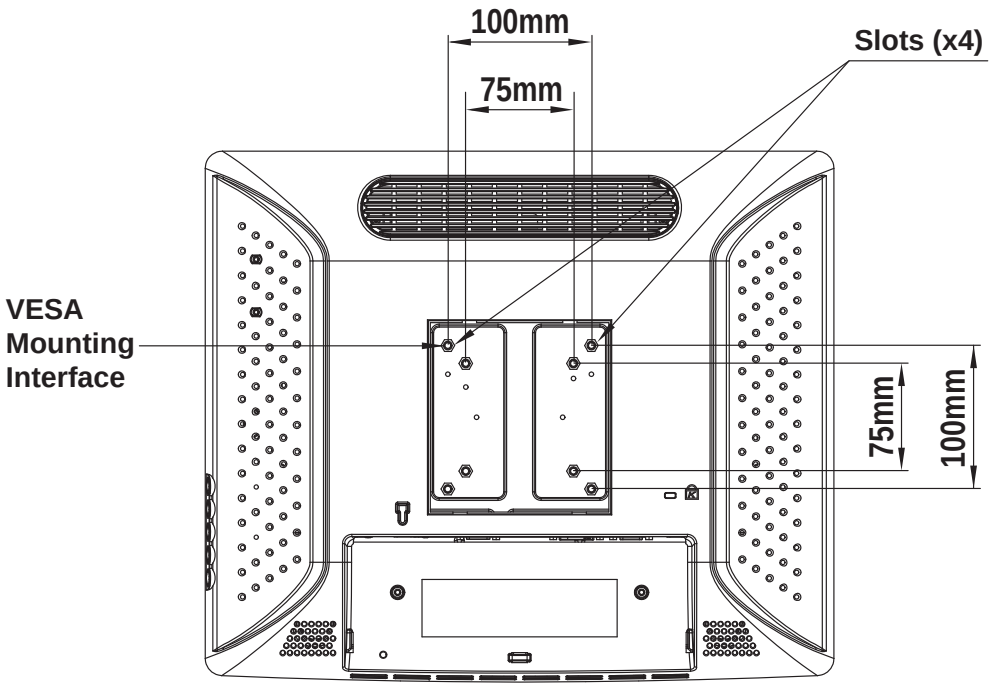
The monitor can be secured to your desk or any other fixed object with Kensington lock security products. The Kensington lock is not included.



VESA Mount for your monitor

This monitor conforms to the VESA Flat Panel Mounting Physical Mounting Interface standard which defines a physical mounting interface for flat panel monitors, and corresponding with the standards of flat panel monitor mounting devices, such as wall and table arms. The VESA mounting interface is located on the back of your monitor.

To mount the monitor on a UL certified swing arm or other mounting fixture, follow the instructions included with the mounting fixture to be used.



⚠ ***Warning!***

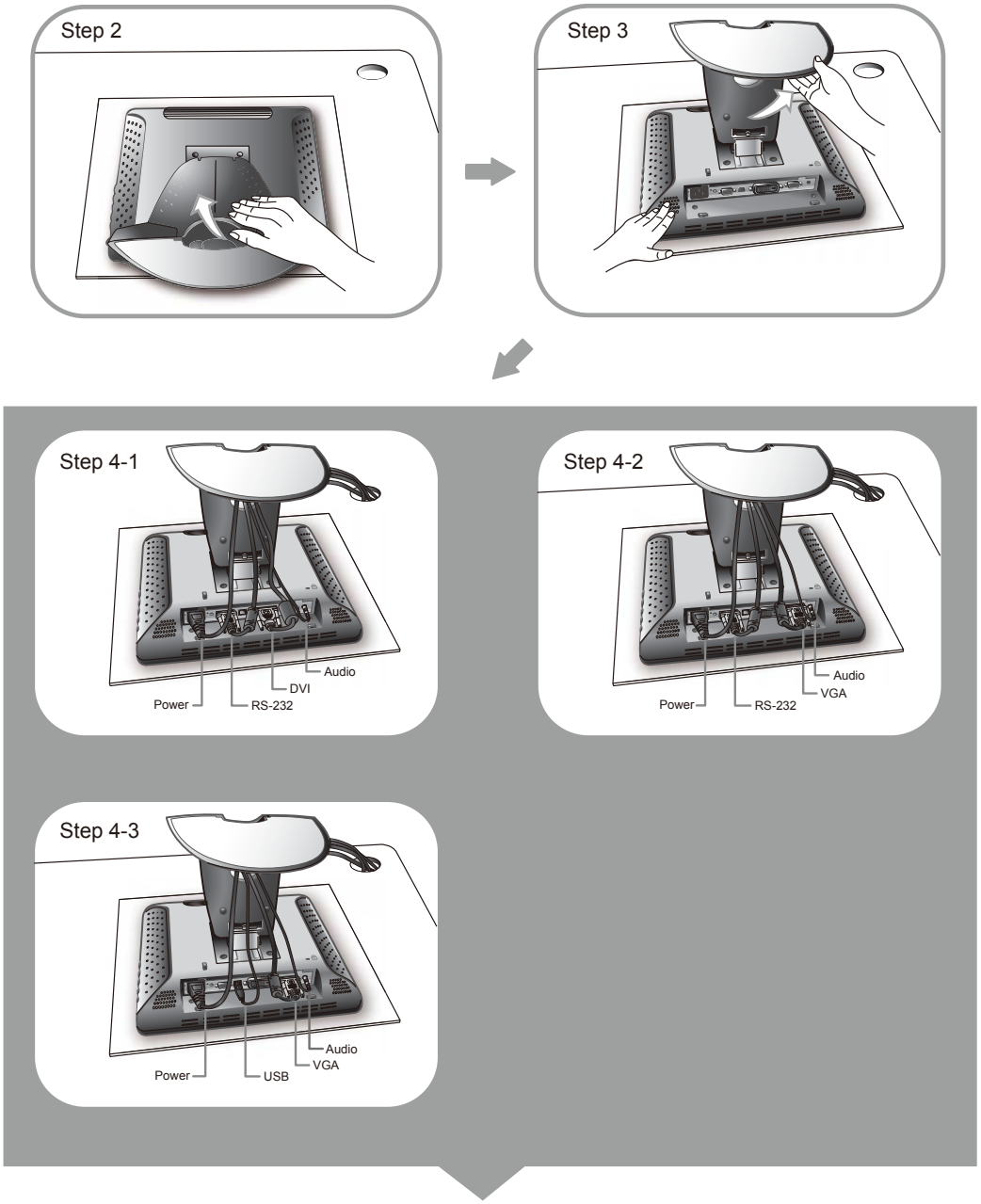
Please select the proper screws!

The distance between the back cover surface and the bottom of the screw hole is 8mm. Please use four M4 screws diameter with proper length to mount your monitor.

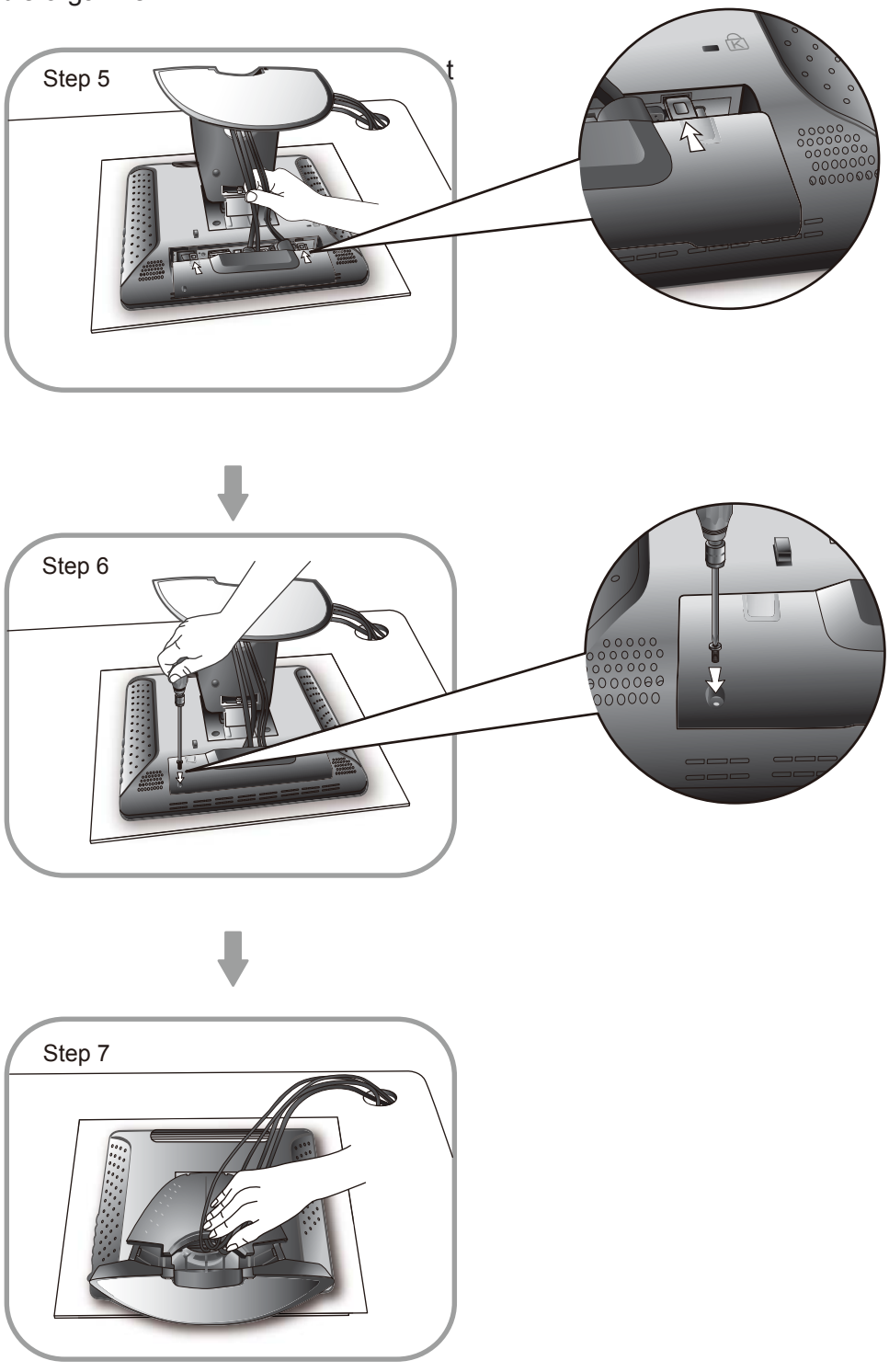
Please note: the mounting stand must be able to support at least 15.4 lbs (7Kg).

Start Your Installation

1. Lay the LCD flat on an even surface.
2. Remove the stand back cover by pulling in the direction of the arrow as seen in step 2 diagram.
3. Move the stand into position as seen in step 3 diagram.
4. Connect the cables to the appropriate connectors as seen in Step 4 diagram. Use step 4-1 or 4-2 diagram if using the RS-232 serial connector. Use step 4-3 diagram if using the USB connector.



5. Take the optional cable cover and screw from the accessory box. Position all cables under the cover lip as seen in the step 5 diagram.
6. Using a Philips Head screwdriver, insert the screw (CBM M3x6) into the cable cover and monitor as seen in the step 6 diagram.
7. Re-attach the stand back cover to the LCD stand by pressing firmly until the tabs snap into place as seen in the step 7 diagram. You may also keep the cables in order by using the cable organizer.



Connecting the Display (Figure 10.1)

To setup this display, please refer to the following figure and procedures.

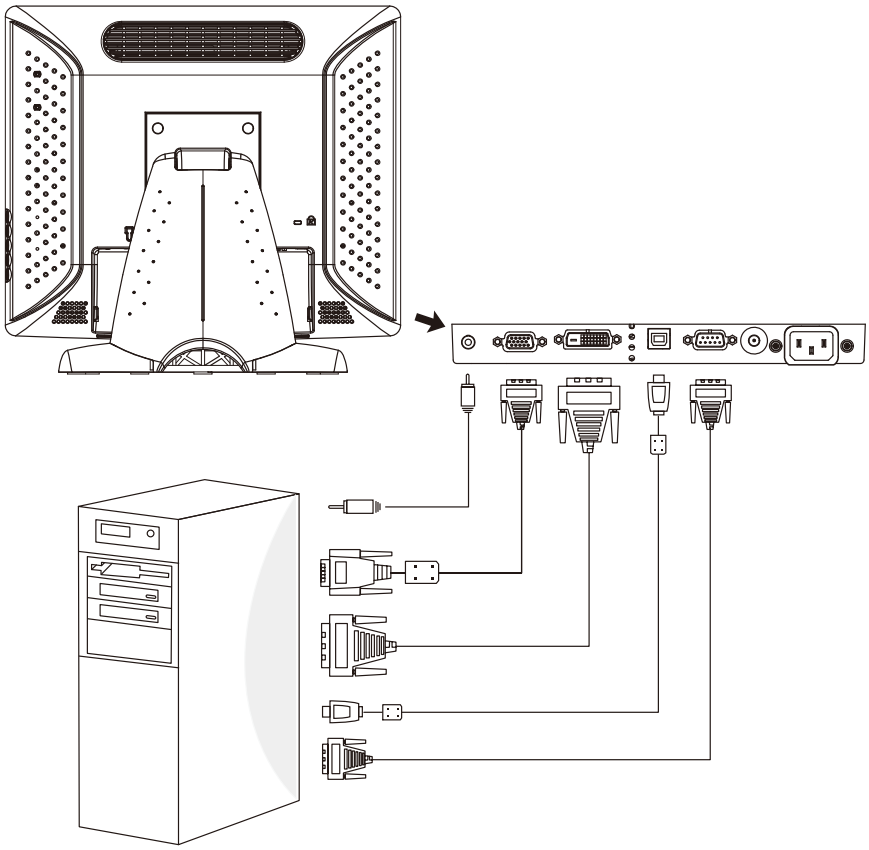
1. Be sure all equipments are turned off.
2. Connect the AC power cord to the power connector on the monitor and the other end into an electrical outlet (10.1).
3. Connect the D-SUB or DVI cable from the display's VGA input connector to the D-SUB or DVI connector of your host computer and tighten the screws (10.1).
4. Connect the Audio-In cable from the audio input port of your display to the Audio-out port of your computer (10.1).
5. Connect the RS-232 or USB cable from the RS-232 or USB port of your display to the RS-232 port (10.1) or USB port (10.1) of your computer.
6. Configure the touch screen. Refer to the "Touch Screen Driver Installation" section on Page 18.
7. Once the touch screen is configured, the monitor is ready for use.

⚠ ***Notice!***

To ensure the LCD display works well with your computer, please configure the display mode of your graphics card to make it less than or equal to 1280 x 1024 resolution and make sure the timing of the display mode is compatible with the LCD display.

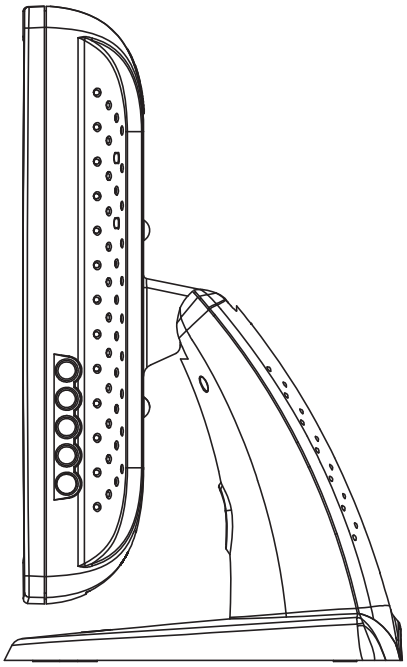
We have listed the compatible "Video Modes" of your LCD display in the appendix (on page 17) for your reference.

(Figure 10.1)



User Controls

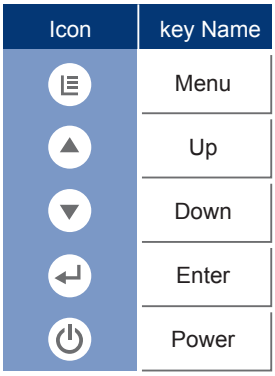
Side Panel Controls



Icon	key Name
	Menu
	Up
	Down
	Enter
	Power

OSD / Key	Menu off status	Menu on status
	Menu appear	Menu disappear / return to main item
	Brightness	Main item select up / Adjust up
	Mute	Main item select down / Adjust down
	Enter / Select sub-item function	
	Power On / Off	

How to Use the OSD Menus



1. Press the “MENU” button to pop up the “on-screen menu” and press “Up” or “Down” button to select among the six functions in the main menus.
2. Choose the adjustment items by pressing the “Enter ” button.
3. Adjust the value of the adjustment items by pressing the “Up” or “Down” button.
4. With the OSD menu on screen, press “ Menu” button to return main menu or exit OSD.
5. The OSD menu will automatically close, if you have left it idle for a pre-set time.
6. To Lock the OSD / Power menu buttons, please follow the instructions below.
   (Please note: the monitor has to be turned ON with a valid signal preset)
   (a). Press “Menu” key , the OSD menu will pops upon display.
   (b.) Press and hold the “Menu” key again with the OSD menu on the screen, the OSD menu will disappear. Then press the "Power" key 1 time while the menu key is still being pressed. The “Lock/Unlock” menu will appear for 3 seconds.
   (c.) Use the "Enter" key to select OSD or Power setting then set at “Lock” by pushing the "UP" or "Down" button.
   (d.) When the "UP" or "Down" button is released, the previous setting will be saved and exit the “Lock/Unlock” menu automatically.
7. To Unlock the OSD / Power menu buttons, please follow the instructions below.
   (Please note: the monitor has to be turned ON with a valid signal preset)
   (a) Press and hold the “Menu” key then press the “Power” key simultaneously, the “Lock/Unlock” menu will appear for 3 seconds.
   (b.) Use the "Enter" key to select OSD or Power setting then set at “Unlock” by pushing the "UP" or "Down" button.
   (c.) When the "UP" or "Down" button is released, the previous setting will be saved and exit the “Lock/Unlock” menu automatically.

Please note:

a. When the OSD Lock function is selected, this indicates that all the buttons except “power” button are now disabled.

b. When the Power Lock function is selected, this indicates that the power key is disabled; user can not to turn off the monitor by "Power" key.

On-Screen Display Menus

Main OSD Menu:

ITEM	CONTENT
Contrast	The monitor luminance level control.
Brightness	The monitor backlight level control.
Auto Adjust	Fine-tune the image to full screen automatically.
Left/Right	Moving screen image horizontal position to left or right.
Up/Down	Moving screen image vertical position to up or down.
Horizontal size	The screen image horizontal dot clock adjustment.
Fine	The screen image pixel phase adjustment.
OSD Left/Right	Moving OSD menu horizontal position to left or right.
OSD Up/Down	Moving OSD menu vertical position to up or down.
OSD Time out	OSD auto-disappear time selection.
OSD Language	OSD menu language selection. (English, French, Japanese, Deutsch, Spanish, Italian, Traditional Chinese and Simplified Chinese)
Factory Reset	Factory default value restored.
RGB	Color temperature selection. (9300K, 6500K, 5500K, 7500K, User)
Volume	Audio volume adjustment.
Mute	Audio On/Off control.

Appendix

Troubleshooting

If you are experiencing trouble with the LCD display, refer to the following. If the problem persists, please contact your local dealer or our service center.

Problem: No image appears on screen.

- ► Check that all the I/O and power connectors are correctly and well connected described in the "Installation" section.
- ► Make sure the pins of the connectors are not crooked or broken.

Problem: Partial Image or incorrectly displayed image.

- ► Check to see if the resolution of your computer is higher than that of the LCD display.
- ► Reconfigure the resolution of your computer to make it less than or equal to 1280 x 1024.

Problem: Image has vertical flickering line bars.

- ► Use "Fine" to make an adjustment.
- ► Check and reconfigure the display mode of the vertical refresh rate of your graphic card to make it compatible with the LCD display.

Problem: Image is unstable and flickering

- ► Use "Horizontal size" to make an adjustment.

Problem: Image is scrolling

- ► Check and make sure the VGA signal cable (or adapter) is securely connected.
- ► Check and reconfigure the display mode of the vertical refresh rate of your graphics card to make it compatible with the LCD display.

Problem: Vague image (characters and graphics)

- ► Use "Fine" to make an adjustment. If this problem still exists, use "Horizontal size" to make an adjustment.

Warning Signal

If you see warning messages on your LCD screen, this means that the LCD display cannot receive a clean signal from the computer graphics card.

There may be three sources for this problem. Please check the cable connections or contact your local dealer or our service center for more information.

No Signal

This message means that the LCD display has been powered on but it cannot receive any signal from the computer graphics card. Check all the power switches, power cables, and VGA signal cable.

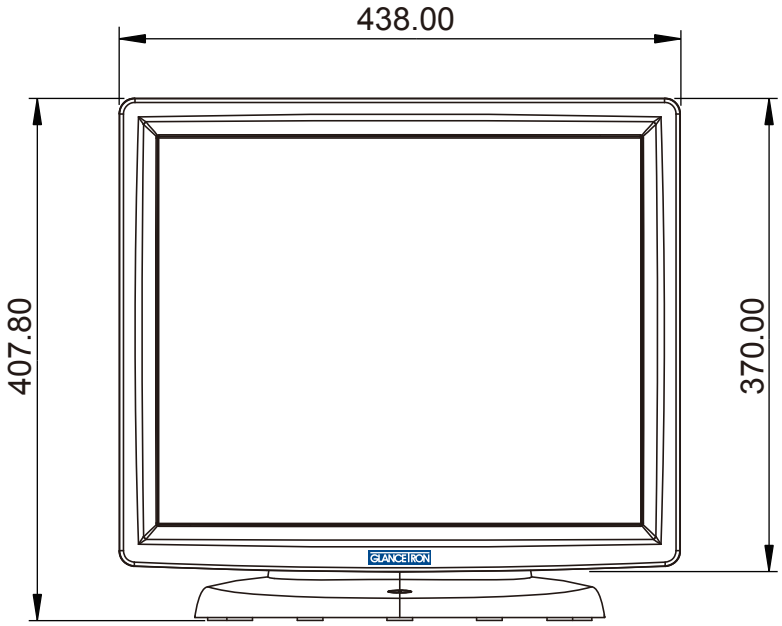
Going to Sleep

The LCD display is under the power saving mode. In addition, the LCD display will enter power saving mode when experiencing a sudden signal disconnecting problem.
The monitor can be activated by pressing any keyboard, triggering the mouse or touching the screen.

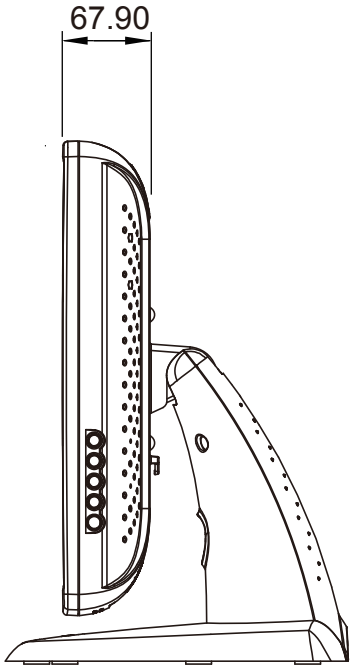
Out of Range

This message means that the signal of the computer graphic card is not compatible with the LCD display. When the signal is not included in the "Video Modes" list we have listed in the Appendices of this manual, the LCD monitor will display this message.

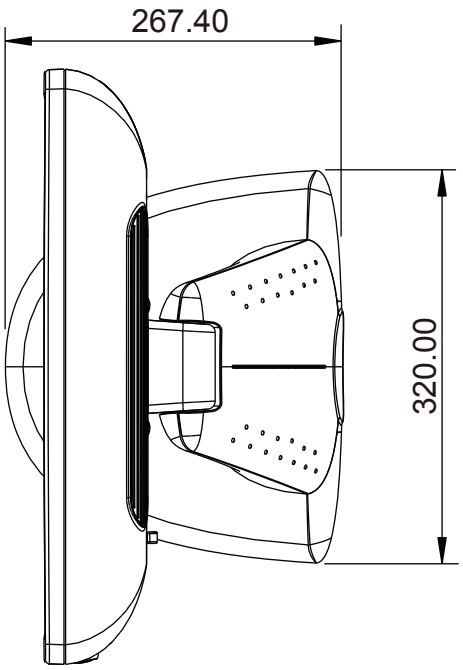
Product Dimensions



Front View



Side View



Top View

Compatibility Modes

Mode	Resolution	H-Frequency (KHz)	V-Frequency (Hz)
IBM VGA	720X400	31.47	70
IBM VGA	640X480	31.47	60
Apple MacII	640X480	35.00	66
VESA VGA	640X480	37.86	72
VESA VGA	640X480	37.50	75
VESA VGA	800X600	35.16	56
VESA VGA	800X600	37.88	60
VESA VGA	800X600	48.08	72
VESA VGA	800X600	46.88	75
Apple Mac	832X624	49.72	75
VESA XGA	1024X768	48.36	60
VESA XGA	1024X768	56.48	70
VESA XGA	1024X768	60.02	75
VESA SXGA	1280X1024	64.00	60
VESA SXGA	1280X1024	80.00	75
VESA SXGA	1152X864	67.50	75
VESA SXGA	1280X960	60.00	60

Touch Screen Driver Installation

The Glancetron GT-19Plus is available with both RS232 and USB connections. The touch driver is located on the enclosed CD-ROM for these operating systems: Windows® 7, VISTA 64/32 bits, XP, 2000, ME, 98, NT4.0, CE, XP Embedded, Linux, Apple® Mac OS.

Please Note: The Glancetron GT-19Plus is Microsoft® Windows® HID (Human Interface Device) compatible if you use the USB touch screen interface. No additional software driver is required for general operation of the touch screen. A calibration tool can be installed for improved touch position accuracy. See “Optional Calibration Tool Install” section for more information.

Glancetron GT-19Plus Optional Calibration Tool Install:

If you would like to use the Optional Calibration Tool, follow the instructions below. Please note: the calibration tool supports Windows® 7, VISTA, XP, XP Embedded, 2000, 98 and ME operating systems via USB only.

1. Open the CD-ROM.
2. Select Touch Type.
3. Select HID Calibration.
4. The HID calibration tool will automatically open. From here the user can choose to do the following:
    a. 4 Points Calibration
    b. 9 Points Linearization
    c. 25 Points Linearization
    d. Clear
    e. Draw Test
    f. Advanced. In the Advanced settings area the user may do the following:
        i. Adjust the Double Click Area.
        ii. Enable auto right click and adjust the auto right click time.
        iii. Choose to be either in the HID Mouse Mode or HID Digitizer Mode (Windows® 7, Vista).
        iv. Simply click the “Apply” button once the settings are finalized.

Glancetron GT-19Plus Install Instructions:

If you are using a PC running Windows® 7, VISTA, XP, 2000, ME, 98, NT4.0, follow the instructions below:

1. Power on the PC.
2. Be sure the USB or the RS-232 Serial cable is connected from the PC to the LCD display.
3. Open the CD-ROM.
4. Follow the step-by-step instructions as shown on the pop-up windows.

If you are using a PC running Windows® XP Embedded, follow the instructions below:

Express:

1. Power on the computer.
2. Make sure that the RS232 or USB cable is connected to the computer.
3. Be sure that your EWF is disabled. If your EWF is enabled, please disable the EWF by using the EWF Manager command.
4. Once the EWF is disabled click on the XP driver on the CD-ROM and follow the step-by-step instructions as shown on the pop-up windows.

Custom:

1. Power on the computer.
2. Make sure that the RS232 or USB cable is connected to the computer.
3. Follow the step-by-step instructions found in the folder file on the CD-ROM.

If you are using a PC running Windows® CE, follow the instructions below:

1. Power on the computer.
2. Make sure that the RS232 or USB cable is connected to the computer.
3. Using Platform Builder, build an image file by following the step-by-step instructions found in the folder file on the CD-ROM.

If you are using a PC running Linux or Apple® Mac OS, follow the instructions below:

1. Power on the computer.
2. Make sure that the RS232 or USB cable is connected to the computer.
3. Follow the step-by-step instructions found in the folder file on the CD-ROM.

When changing the Touch Interface (RS-232 or USB), please follow instructions below.

1. Uninstall the touch driver.
2. Re-start the computer.
3. Remove the original Touch Interface (RS-232 or USB).
4. Connect the computer to the Touch Interface (RS-232 or USB) that you would like to use.
5. Load the Touch Driver CD, then follow the step-by-step instructions as show on monitor.

PLEASE NOTE!

Don’t plug in both the RS-232 and USB cables!

Doing so may cause a driver conflict, making your touch screen inoperable.