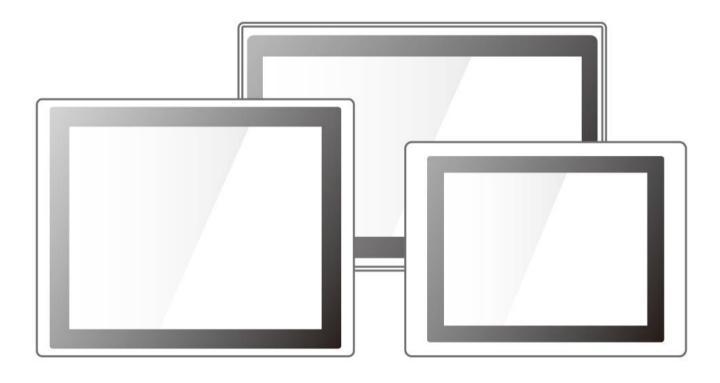


# Multitouch P-Cap Panel Mount Display 7~21.5"



# **User Manual**

Version 1.0 Document Part Number: 915211101030

Please read this instructions before operating the device and retain them for future reference.

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## Preface

## **Copyright Notice**

No part of this document may be reproduced, copied, translated, or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the prior written permission of the original manufacturer.

## **Trademark Acknowledgement**

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## Disclaimer

We reserve the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. We assume no responsibility or liability for the use of the described product(s) conveys no license or title under any patent, copyright, or masks work rights to these products, and make no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this manual are for illustration purposes only. We make no representation or guarantee that such application will be suitable for the specified use without further testing or modification.

## Warranty

Our warranty guarantees that each of its products will be free from material and workmanship defects for a period of one year from the invoice date. If the customer discovers a defect, we will, at his/her option, repair or replace the defective product at no charge to the customer, provide it is returned during the warranty period of one year, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service. If the serial number and the product shipping data differ by over 30 days, the in-warranty service will be made according to the shipping date. In the serial numbers the third and fourth two digits give the year of manufacture, and the fifth digit means the month (e. g., with A for October, B for November and C for December).

For example, the serial number 1W16Axxxxxx means October of year 2016.

## **Customer Service**

We provide a service guide for any problem by the following steps: First, visit the website of our distributor to find the update information about the product. Second, contact with your distributor, sales representative, or our customer service center for technical support if you need additional assistance.

You may need the following information ready before you call:

- Product serial number
- Software (OS, version, application software, etc.)
- Description of complete problem
- The exact wording of any error messages

In addition, free technical support is available from our engineers every business day. We are always ready to give advice on application requirements or specific information on the installation and operation of any of our products.

## **Naming Rule**

## W07L100-XXT1

ltem	Description
w	Panel Type
07	Panel Size
LXXX	Product Size
ХХ	Mechanical Type
T1	Panel Model

## **Advisory Conventions**

Four types of advisories are used throughout the user manual to provide helpful information or to alert you to the potential for hardware damage or personal injury. These are Notes, Important, Cautions, and Warnings. The following is an example of each type of advisory.



## Note:

A note is used to emphasize helpful information



## Important:

An important note indicates information that is important for you to know.



## **Caution/ Attention**

A Caution alert indicates potential damage to hardware and explains how to avoid the potential problem.

Unealerted' attention indique un dommage possible à l'équipement et explique comment éviter le problem potentiel.



## Warning!/ Avertissement!

An Electrical Shock Warning indicates the potential harm from electrical hazards and how to avoid the potential problem. Un Avertissement de Choc Électriqueindique le potentiel de chocssur des



Alternating Current / Mise à la Terre The Protective Conductor Terminal (Earth Ground) symbol indicates the potential risk of serious electrical shock due to improper grounding. Le symbole de Miseà Terre indique le risqué potential de choc électrique

emplacements électriques et comment éviterces problèmes.

grave à la terre incorrecte.

## **Safety Information**

# 4

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Toujours débrancher le cordon d'alimentation du chassis lorsque vous travaillez sur celui-ci. Ne pas brancher de connections lorsque l'alimentation est présente. Des composantes électroniques sensibles peuvent être endommagées par des sauts d'alimentation. Seulement du personnel expérimenté devrait ouvrir ces chassis.

## **Caution/ Attention**

Warning!/ Avertissement!

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

Toujours verifier votre mise à la terre afin d'éliminer toute charge statique avant de toucher la carte CPU. Les équipements électroniques moderns sont très sensibles aux décharges d'électricité statique. Toujours utiliser un bracelet de mise à la terre comme précaution. Placer toutes les composantes électroniques sur une surface conçue pour dissiper les charge, ou dans un sac anti-statique lorsqu'elles ne sont pas dans le chassis.

## **Safety Precautions**

For your safety carefully read all the safety instructions before using the device. Keep this user manual for future reference.

- Always disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.
- For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.
- Keep this equipment away from humidity.
- Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.
- The openings on the enclosure are for air convection and to protect the equipment from overheating.



## **Caution/ Attention**

Do not cover the openings!

- Before connecting the equipment to the power outlet make sure the voltage of the power source is correct.
- Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.

- Never pour any liquid into an opening. This could cause fire or electrical shock.
- Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
- All cautions and warnings on the equipment should be noted.



#### **Caution/ Attention**

Always ground yourself to remove any static charge before touching the board. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or staticshielded bag when they are not in the chassis.

## **About This User Manual**

This User Manual provides information about using the Winmate® Multitouch P-Cap Panel Mount Display. The documentation set provides information for specific user needs, and includes:

• Multitouch P-Cap Panel Mount Display User Manual – contains detailed description on how to use the display, its components and features.



#### Note:

Some pictures in this guide are samples and can differ from actual product.

#### **Document Revision History**

Version	Date	Note
1.0	7-Dec-2018	New document release.

# **Chapter 1: Introduction**

This chapter gives you product overview, describes features and hardware specification. You will find all accessories that come with the display device in the packing list. Mechanical dimensions and drawings included in this chapter.

## **1.1 Overview**

Congratulations on purchasing Winmate® Multitouch P-Cap Panel Mount Display. Versatile display in an open-frame housing designed for wall mount and VESA mount solutions for industrial applications.

## **1.2 Product Features**

Multitouch P-Cap Panel Mount Display features:

- 7-21.5" TFT LCD
- 1x HDMI, 1x VGA (Standard)
- 1 x DVI, 1 x S-Video, 1 x Composite (Optional)
- Front IP65 water and dust proof
- Suitable for industrial applications

## **1.3 Package Contents**

Carefully remove the box and unpack your display. Please check if all the items listed below are inside your package. If any of these items are missing or damaged contact us immediately.

Standard factory shipment list:



Display

Varies by product



**Power Cord** Varies by country

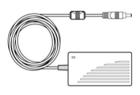


• User Manual (Hardcopy)

P/N: 91521110103O



**VGA Cable** P/N: 9441151150P4



 110~240V AC Power Adapter

Varies by product



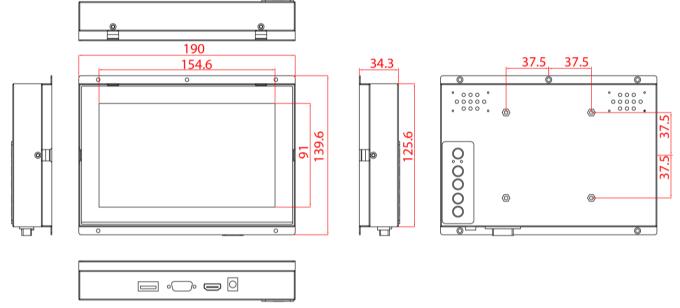
HDMI Cable P/N: 94E0190190P3

## **1.4 Physical Appearance**

This section describes appearance, connectors' layout and mechanical dimensions of the display. Notice that this is a simplified drawing and some components are not marked in detail.

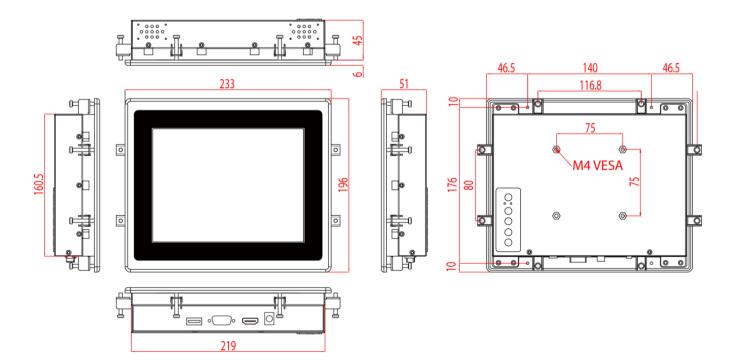
#### 7-inch, W07L100-EHT1

Unit: mm Dimensions :190 x 139.6 x 34.3

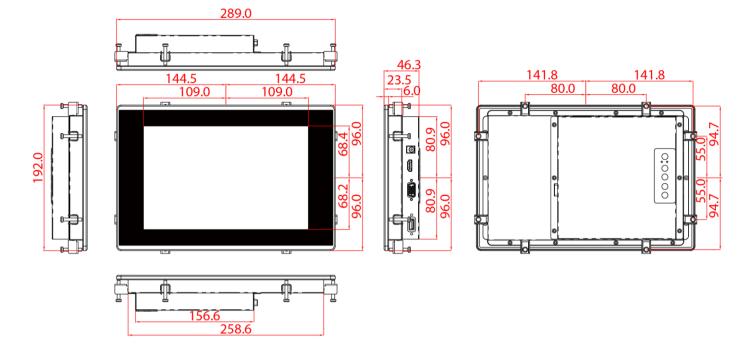


8.4-inch, R08L200-PPU1

Unit: mm Dimensions :233 x 196 x 51

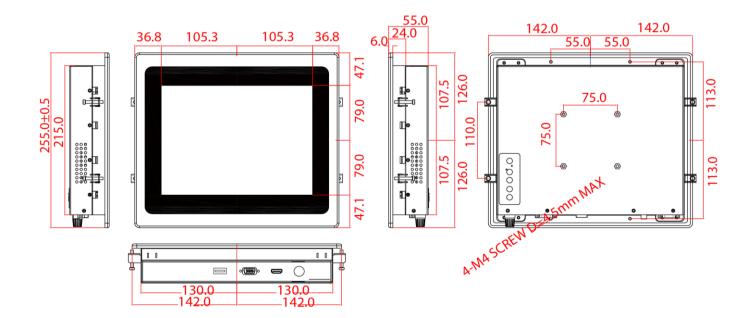


Unit: mm Dimensions :289 x 192 x 46.3

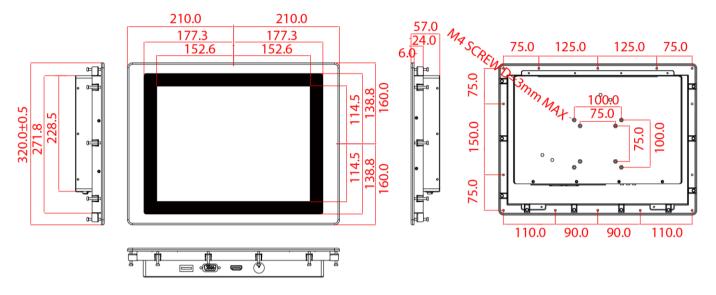


10.4-inch, R10L100-PPT2

Unit: mm Dimensions :284 x 255 x 55

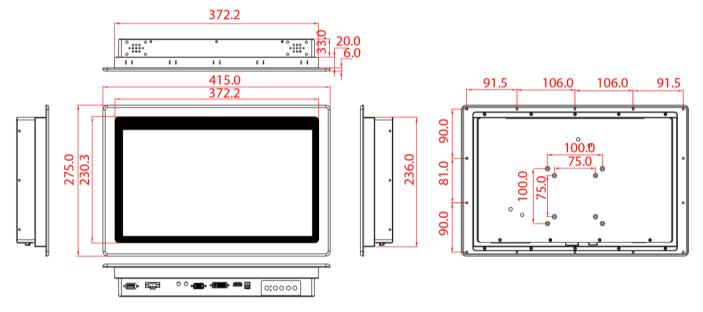


Unit: mm Dimensions :420 x 320 x 57



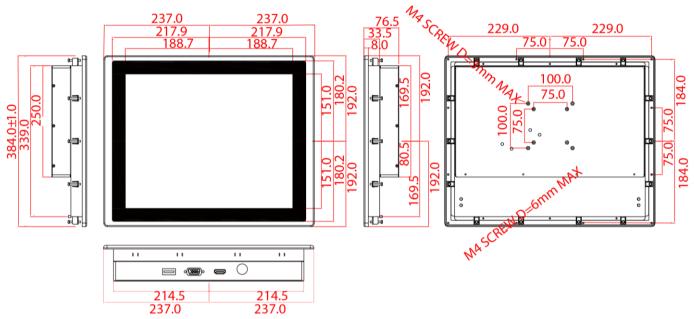
15.6-inch, W15L100-PPA4

Unit: mm Dimensions :415 x 275 x 59



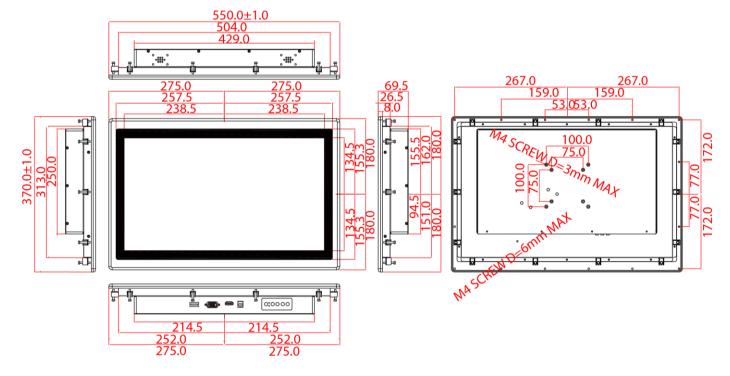
#### 19-inch, R19L300-PPM1

Unit: mm Dimensions : 474 x 384 x 76.5



19-inch, W22L100-PPA3

Unit: mm Dimensions :550 x 370 x 69.5



## **1.5 Connector Description**

This section describes physical appearance of the display.

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#### Note:

Notice that standard input terminals include VGA and HDMI. Your device may be equipped with DVI, S-Video or Composite input terminals based on your order.

Notice that input and output connectors vary by product size and specifications.

Connectors are located on the bottom side.

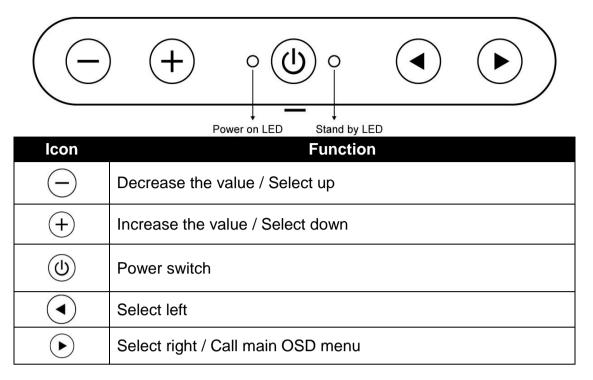
Item	Description				
	<b>USB for Touch</b> – Connects USB for touch capabilities. <i>Example: A touch to display.</i>				
	<b>VGA (RGB)</b> –Transmits video from a PC to a monitor. Example: A notebook PC to a monitor.				
	<b>HDMI</b> –Transmits and protects copyrighted digital video and audio. <i>Example: An HD tuner to an HD ready TV.</i>				
0	Power Jack – Connects computer to source of power.				
	<b>DVI (Optional)</b> – Transmits video from a PC to a monitor. Example: A notebook PC to a monitor.				
$\bigcirc$	<b>S-Video (Optional)</b> – Transmits standard definition video from a PC to a monitor. <i>Example: A notebook PC to a monitor.</i>				
0	<b>Composite (Optional)</b> – Transmits composite video from a PC to a monitor. <i>Example: A notebook PC to a monitor.</i>				

## **1.6 OSD Control Panel**

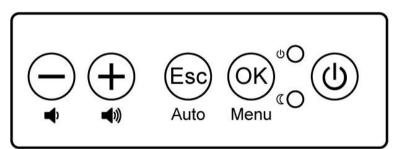
#### 1.6.1 Control Buttons

OSD control panel is located on the rear side of the display. OSD control panel varies by product specifications.

## Туре А



#### Туре В



lcon	Function					
$\overline{}$	Decrease the value / Select up					
+	Increase the value / Select down					
	Power switch					
Esc	Exit / Auto adjustment					
OK	Enter / Call main OSD menu					

## 1.6.2 LED Indicators

LED indicators are located on the OSD control panel the rear side of the display.

lcon	Description	Function
ЧÓ	Power Indicator	Lights up in "Green" when the monitor turn on
٩D	Stand by Indicator	Lights up in "Orange" when the device cannot detect any input source

# **Chapter 2: Installation**

This chapter provides hardware installation instructions and mounting guide for all available mounting options. Pay attention to cautions and warning to avoid any damages

## **2.1 Wiring Requirements**

The following common safety precautions should be observed before installing any electronic device:

- Strive to use separate, non-intersecting paths to route power and networking wires. If power wiring and device wiring paths must cross make sure the wires are perpendicular at the intersection point.
- Keep the wires separated according to interface. The rule of thumb is that wiring that shares similar electrical characteristics may be bundled together.
- Do not bundle input wiring with output wiring. Keep them separate.
- When necessary, it is strongly advised that you label wiring to all devices in the system.
- Do not run signal or communication wiring and power wiring in the same conduit. To avoid interference, wires with different signal characteristics (i.e., different interfaces) should be routed separately.
- Be sure to disconnect the power cord before installing and/or wiring your device.
- Verify the maximum possible current for each wire gauge, especially for the power cords. Observe all electrical codes dictating the maximum current allowable for each wire gauge.
- If the current goes above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.

Be careful when handling the unit. When the unit is plugged in, the internal components generate a lot of heat which may leave the outer casing too hot to touch.

## 2.2 Mounting Guide

The Panel Mount Display supports different installation methods, including panel mount, VESA mount. Refer to sub-sections below for more details.



## **Caution/ Attention**

Follow mounting instructions and use recommended mounting hardware to avoid the risk of injury.

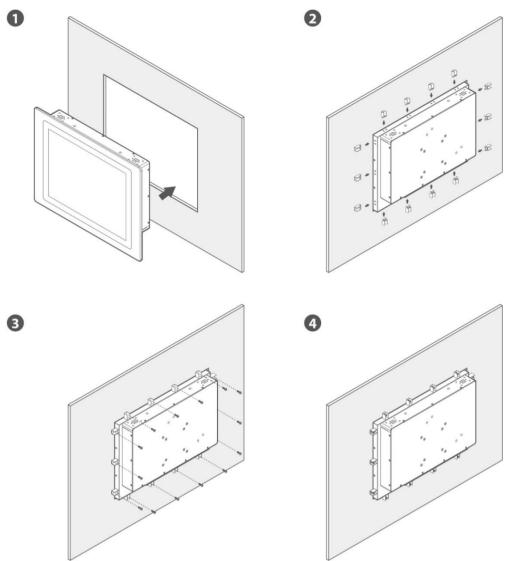
Suivez les instructions de montage et d'utilisation recommandé le matériel de montage pour éviter le risque de blessure.

## 2.2.1 Panel Mount

The Panel Mount Display comes with clamp mounts that enable you to install the unit onto a wall (where space has been cut out to accommodate the rest of the hardware).

## Installation Instruction

- 1. Make a cutout on the fixture (ex. wall) according to the cutout dimensions of the display. Based on the drawing, mark screw holes on a front side of the fixture. Place display on the fixture from the rear side.
- 2. Install mounting clamps to its location all around the perimeter of the panel PC
- 3. Use electric screwdriver to fasten M3 screws from the front side.
- 4. You complete the installation. Please connect all the peripherals if needed.

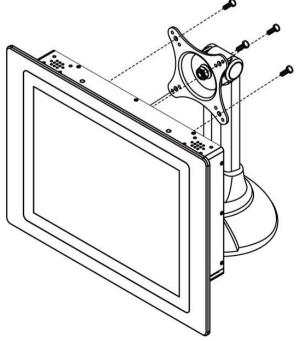


## 2.2.2 VESA Mount

Panel Mount Display comes with VESA holes for wall/ desk mounting. *Notice that VESA stand and mounting kit are not provided by Winmate.* 

## Installation Instruction:

- 1. Screw VESA bracket to the fixture (ex. swing arm) with four VESA screws.
- 2. Place the device on VESA bracket.



## **2.3 Cable Mounting Considerations**

For a nice look and safe installation, make sure cables are neatly hidden behind the device.



#### **Caution/ Attention**

Observe all local installation requirements for connection cable type and protection level.

Suivre tous les règlements locaux d'installations, de câblage et niveaux de protection.



#### **Caution/ Attention**

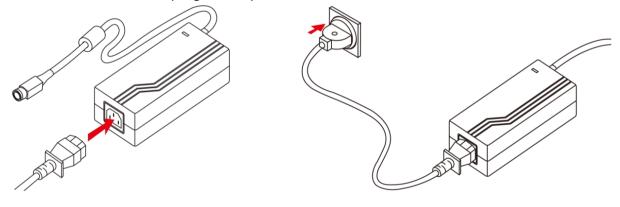
Turn off the device and disconnect other peripherals before installation. Éteindre l'appareil et débrancher tous les périphériques avant l'installation.

## 2.4 Connecting Power

This section provides information on how to use connectors on the Panel Mount Display. Be cautious while working with these modules. Please carefully read the content of this chapter in order to avoid any damages.

#### Installation instruction:

- 1. Connect the AC cord to the AC IN terminal on the AC adaptor.
- 2. Connect the DC OUT terminal of the AC adaptor to the DC IN terminal on the monitor.
- 3. Align the notch on the cord connector with the guiding groove and plug it in.
- 4. Connect the AC cord plug to the power outlet.



## **2.5 Connecting Peripherals**

The panel control port is designed for monitors that work with a variety of compatible video sources. Due to the possible deviations between these signal sources, you may have to make adjustments to the monitor settings from the OSD menu when switching between these sources.

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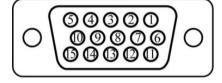
#### Note:

Notice that standard input terminals include VGA and HDMI. Your device may be equipped with DVI-D, S-Video or Composite input terminals based on your order.

#### 2.5.1 VGA Connector

Panel Mount Display uses standard 15pin D-sub connector. Plug 15-pin VGA signal cable to the VGA connector in the rear of motherboard, and plug the other end to the monitor. Secure cable connectors with hexagonal copper pillars M3x4mm.

#### Pin Assignment and signal names for VGA connector



Pin №	Signal Name	Pin №	Signal Name
1	RED	2	GREEN
3	BLUE	4	NC
5	GND	6	AGND
7	AGND	8	AGND
9	VGA_5V	10	GND
11	NC	12	DDCSDA
13	H Sync	14	V Sync
15	DDCSCL		

#### 2.5.2 HDMI Connector

Plug HDMI signal cable to the HDMI connector on the rear side of PC system, and plug the other end to the monitor.

#### Pin Assignment and signal names for HDMI connector



Pin №	Signal Name	Pin №	Signal Name
1	HDMI_RX2+	2	GND
3	HDMI_RX2-	4	HDMI_RX1+
5	GND	6	HDMI_RX1-
7	HDMI_RX0+	8	GND
9	HDMI_RX0-	10	HDMI_RXC+
11	GND	12	HDMI_RXC-
13	HDMI_CON_CEC	14	NC
15	HDMI_CON_SCL	16	HDMI_CON_SDA
17	GND	18	+5V_HDMI
19	HDMI_CON_HP		

#### 2.5.3 DVI Connector

Notice that DVI is an optional connector and may not be present in your device.

Use DVI to connector in the rear of PC system, and plug the other end to the TFT LCD display. Fasten cable connectors with screws.

#### Pin Assignment and signal names for DVI connector

1	2					7		C1 C2
						15		
17	18	19	20	21	22	23	24	C3 [[C4] C5

Pin №	Signal Name	Pin №	Signal Name
1	DVI_RX2-	2	DVI_RX2+
3	GND	4	4-
5	4+	6	DVI SCL
7	DVI SDA	8	NC
9	DVI_RX1-	10	DVI_RX1+
11	GND	12	3-
13	3+	14	+5V
15	DVI_CON_CABL E	16	DVI_CON_HP
17	DVI_RX0-	18	DVI_RX0+
19	GND	20	5-
21	5+	22	GND
23	DVI_CLKP	24	DVI_CLKN
C1	NC	C2	NC
C3	NC	C4	NC
C5	NC		

#### 2.5.4 S-Video

Notice that S-Video is an optional connector and may not be present in your device.

Use Mini-DIN connector to connect S-Video to the display.

#### Pin Assignment and signal names for S-Video connector

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Pin №	Signal Name	Pin №	Signal Name
1	GND	2	GND
3	Y	4	С

#### 2.5.5 Composite Video

Notice that composite video is an optional connector and may not be present in your device.

Use composite video cable to connect composite video input.

#### Pin Assignment and signal names for Composite Video connector

2	Pin №	Signal Name	Pin №	Signal Name
) ==	1	Composite Video Signal	2	GND

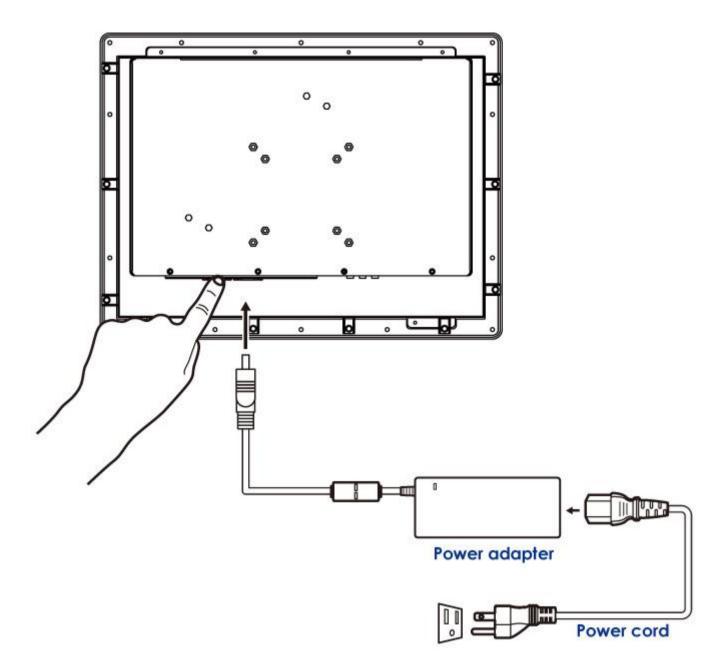
# **Chapter 3: Operating the Device**

In this chapter you will find instructions on how to operate the display.

## **3.1 Turning on the System**

To turn on the system:

- 1. Connect the power adapter cable to the DC input of the display.
- 2. Connect the power cord to the power adapter.
- 3. Connect the power cord to a power outlet.
- 4. Press the power button located on the OSD control panel on the rear to turn on the system.



## **3.2 OSD Menu Navigation**

OSD Icon	Sub-menu	Settings	Note	
	BRIGHTNESS	slider bar	Default 50	
<u>-</u>	Use to adjust the screen's br	ightness. Range 0 to 100		
BRICONTRAST	CONTRAST	slider bar	Default 50	
	Use to adjust the screen's co	ontrast. Range 0 to 100		
	H POSITION	slider bar	Default 50	
	Use to adjust the image to the left or right on the screen. Range 0 to 100			
POSITION	V POSITION	slider bar	Default 50	
	Use to adjust the image up o	r down on the screen. Range	e 0 to 100	
	AUTO	Select and execute		
	Use to choose the best settir	ngs for the current input signa	l	
	CLOCK	slider bar	Default 50	
<b>+‡</b> +	Use to adjust the value of ho	rizontal image. Range 0 to 10	00	
	PAHSE	slider bar	Default 50	
IMAGE	Use to adjust the phase cont optimize the display quality)	rol (Phase adjustment may b	e required to	
	WHITE BALANCE	Select and execute		
	Use to set RGB signal voltage	je level		
	USER	R.G.B slider bar		
	Choose RED/GREEN/BLUE to set value of color temperature brightness to suit your own preference			
	9300K	Select and execute		
53	Use to set value of monitor for	or the CIE coordinate 9300 co	olor temperature	
COLOR	6500K	Select and execute		
	Use to set value of monitor for	or the CIE coordinate 6500 co	olor temperature	
	ADC RIGHTNESS	slider bar	Default 50	
	Set value of monitor for ADC	Brightness. Range 0 to 100		
	GAMMA 0	Select and execute	Default GAMMA0	
	Choose the parameter of GA	MMA 0 as default setting.		
XII	GAMMA 1	Select and execute		
GAMMA	Choose the parameter of GA	MMA 1 as default setting.		
	GAMMA 2	Select and execute		
	Choose the parameter of GA			
	VR Brightness	ON/OFF	Default OFF	
	Choose the brightness control mode by VR control			
OP	Volume	slider bar	Default 10	
-		1		
OPTION	Use to set value of volume			
OPTION	Use to set value of Volume Speaker	ON/OFF	Default OFF	

OSD Icon	Sub-menu	Settings	Note
	AUTO SCAN	Select and execute	Default mode
	Auto detect the inp	out source	
⇒⁄⊙	ANALOG	Select and execute	
CHANNEL	Switch the setting	of signal input to Analog mode	
	HDMI	Select and execute	
	Switch the setting of signal input to HDMI mode		
	YES	Select and execute	
⇒⁄⊙	Recall the factory default setting		
RECALL	NO	Select and execute	
	Return to main menu		
EXIT	YES	Select and execute	

## **3.3 Troubleshooting Guide**

If your monitor fails to operate correctly, check the following chart for possible solution before calling for repairs:

Condition	Check Point
The picture does not appear	<ul> <li>Check if the signal cable is firmly seated in the socket.</li> <li>Check if the Power is ON at the computer</li> <li>Check if the brightness control is at the appropriate position, not at the minimum.</li> </ul>
The screen is not synchronized	<ul> <li>Check if the signal cable is firmly seated in the socket.</li> <li>Check if the output level matches the input level of your computer.</li> <li>Make sure the signal timings of the computer system are within the specification of the monitor.</li> <li>If your computer was working with a CRT monitor, you should check the current signal timing and turn off your computer before you connect the VGA Cable to this monitor.</li> </ul>
The position of the screen is not in the center	<ul> <li>Adjust the H-position, and V-position, or Perform the Auto adjustment.</li> </ul>
The screen is too bright (too dark)	Check if the brightness or contrast control is at the appropriate position, not at the Maximum (Minimum).
The screen is shaking or waving	<ul> <li>Perform the Auto adjustment.</li> <li>Moving all objects which emit a magnetic field such as motor or transformer, away from the monitor.</li> <li>Check if the specific voltage is applied.</li> <li>Check if the signal timing of the computer system is within the specification of monitor.</li> </ul>

\*If you are unable to correct the fault by using this chart, stop using your monitor and contact your distributor or dealer for further assistance.

# Appendix

This chapter contains additional product information, including troubleshooting guide and frequency table

## **Appendix A: Frequency Table**

The choice of supported modes depends on the monitor native resolution. Refer to the table below for more information about available input signals.

#### A-1 Separate RGB Video Signal (VGA) Input Timing

#### Input Timing Range: H: 30-80KHz: V: 50-75Hz

Mode	Resolution	H-Freq.(Hz)	V-Freq.(Hz)
Mode 1	640×350	31.5	70
Mode 2	640×400	31.5	70
Mode 3	640×480	31.5	60
Mode 4	640×480	37.9	72
Mode 5	640×480	37.5	75
Mode 6	720×400	31.47	70
Mode 7	800×480	31.5	60
Mode 8	800×600	35.1	56
Mode 9	800×600	37.9	60
Mode 10	800×600	48.1	72
Mode 11	800×600	46.9	75
Mode 12	1024×768	48.4	60
Mode 13	1024×768	56.5	70
Mode 14	1024×768	60.0	75
Mode 15	1280x768	48.4	60
Mode 16	1280x768	56.5	70
Mode 17	1280x768	60.0	75
Mode 18	1280 x 800	48.4	60
Mode 19	1280×1024	64.0	60
Mode 20	1280×1024	80.0	75
Mode 21	1600×1200	75	60
Mode 22	1680×1050	65.3	60
Mode 23	1920×1080	67.5	60

#### A-2 Composite Video Input; Y/C Video Input (S-Video)

Video Format	Resolution	Frequency	County Support
NTSC-M	525x60	3.58 MHz	U.S., Japan, may others
PAL	625x50	4.43 MHz	China, Europe, may others

#### A-3 DVI Input Timing

#### Input Timing Range: H: 31.47-80 KHz; V: 60Hz

Mode	Resolution	H-Freq.(Hz)	V-Freq.(Hz)
Mode 1	640×480	31.47	60
Mode 2	800×600	37.87	60
Mode 3	1024×768	48.36	60
Mode 4	1280×1024	64.0	60
Mode 5	1600×1200	75	60
Mode 6	1680×1050	65.3	60
Mode 7	1920×1080	67.5	6060

## A-4 Supported HDMI Mode

Mode	Resolution
Mode 1	480i
Mode 2	576i
Mode 3	480p
Mode 4	576p
Mode 5	720p
Mode 6	1080i
Mode 7	1080p



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