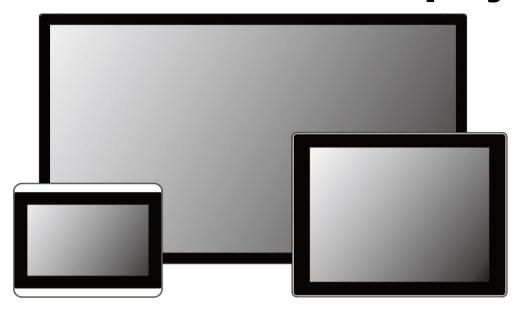


Outdoor Chassis Display



(PCAP touch) 7"~55"

Model No. W07L100-PCO10D
W10L100-GCH2OD
R10L100-PCT2OD
R12L100-PCM2OD
R15L600-PCC3OD
R19L100-GCA3OD
W22L100-GCB1OD
W24L100-GCC1OD
W32L100-PCA4OD
W43L100-PCA1OD
W55L100-PCA3OD

User Manual

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Preface

Copyright Notice

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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 1W16Axxxxxxxx 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

W07LXXX-PCXX/ W07LXXX-PTXX

Item	Description
w	Panel Type
07	Panel Size
LXXX	Product Size
PC/ PT	Mechanical Type (PCAP Chassis)
XX	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 A Caution alert indicates potential damage to hardware and explains how to avoid the potential problem.

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



Warning! An Electrical Shock Warning indicates the potential harm from electrical hazards and how to avoid the potential problem.

Avertissement!Un Avertissement de Choc Électrique indique le potentiel de chocssur des emplacements électriques et comment éviterces problèmes.



Earth Ground The Protective Conductor Terminal (Earth Ground) symbol indicates the potential risk of serious electrical shock due to improper grounding.

Mise à la Terre Le symbole de Miseà Terre indique le risqué potential de choc électrique grave à la terre incorrecte.

Safety Information



Warning! 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.

Avertissement! 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 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.

Attention 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 concue 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 Do not cover the openings! **Attention** Ne couvrez pas les ouvertures!

- · 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.
- 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 static-shielded bag when they are not in the chassis

About This User Manual

This User Manual provides information about using the Winmate® Outdoor Chassis Display. The documentation set provides information for specific user needs, and includes:

Outdoor Chassis Display (P-Cap touch) User Manual – contains detailed description on how to use the display, its components and features.



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

Document Revision History

Version	Date	Note
1.0	25-Sep-2023	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® Outdoor Chassis Display. Versatile display in an openframe housing designed for rear and VESA mounting with integrated bracket design for industrial applications.

1.2 Product Features

Outdoor Chassis Display features:

- 7"-55" TFT LCD with projected capacitive (PCAP) multi-touch screen
- Standard 1 x VGA (D-sub 15), 1 x HDMI (Type-A)
- Chassis housing
- Sleek and flush mounts
- Suitable for industrial applications

1.3 Package Contents

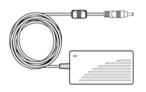
Carefully remove the box and unpack your display. Please check if all the items listed below are inside your package. If any of these items are missing or damaged contact us immediately.

Standard factory shipment list:



Display

Varies by product



110~240V AC Power Adapter

Varies by product



HDMI Cable

P/N: 94E0190190P3



User Manual (Hardcopy)

P/N: 915211141001



Power Cord

Varies by country



Remote Control (Optional)

P/N: 9B0000000418



Black screw bolts**

Varies by product



VGA Cable

P/N: 9441151150Q8

^{**}Notice: Screw bolts provided by Winmate only to be used to screw the display onto a console from the rear side. If you prefer your own bolts, please make sure to use M4 and 30mm in length.

1.4 Product Overview

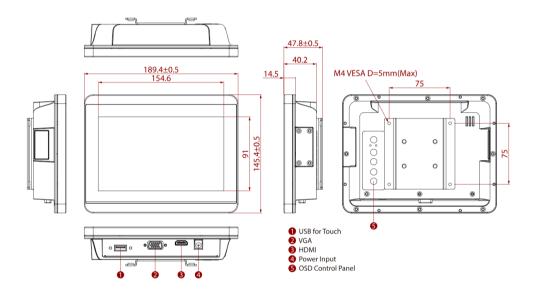
This section describes physical appearance of the Multi-Touch PCAP Chassis Display.



Note: Notice that standard input terminals include VGA and HDMI. Your device may be equipped with other input terminals based on your order.

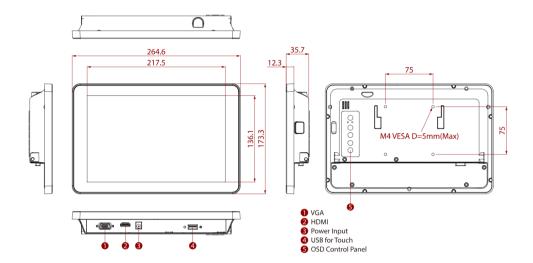
Mechanical Dimensions and Appearance

W07L100-PCO10D



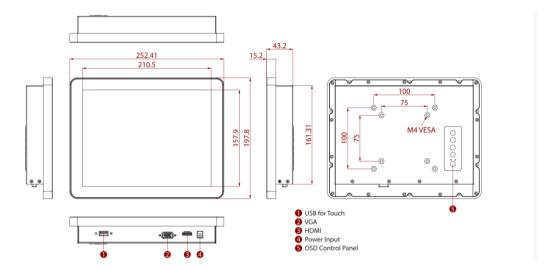
Nº	Description	Nº	Description
1	USB for touch	4	Power input
2	VGA	(5)	OSD Control Panel
3	HDMI		

W10L100-GCH2OD



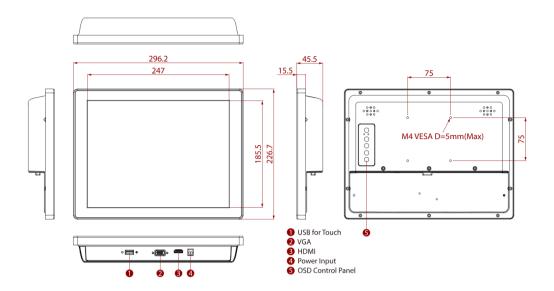
Nº	Description	Nº	Description
1	VGA	4	USB for Touch
2	HDMI	(5)	OSD Control Panel
3	Power Input		

R10L100-PCT2OD



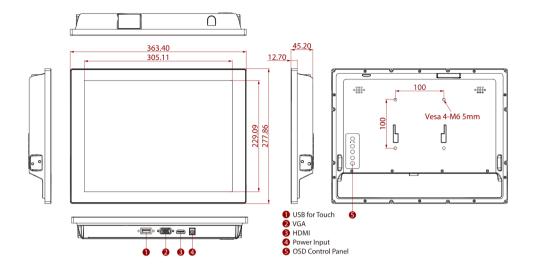
Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	HDMI		

R12L100-PCM2OD



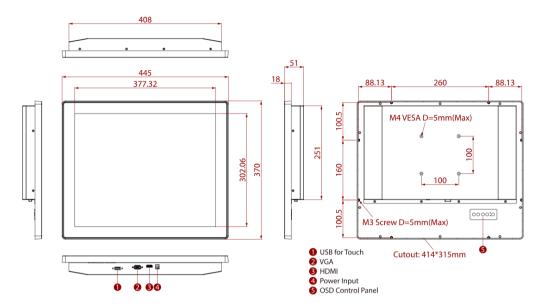
Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	HDMI		

R15L600-PCC3OD



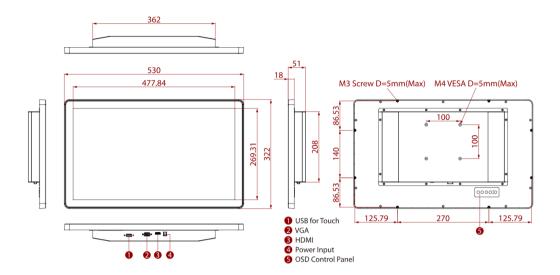
Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	HDMI		

R19L100-GCA3OD



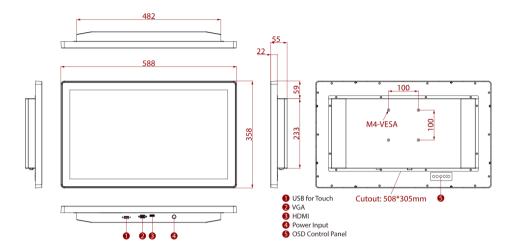
Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	HDMI		

W22L100-GCB10D



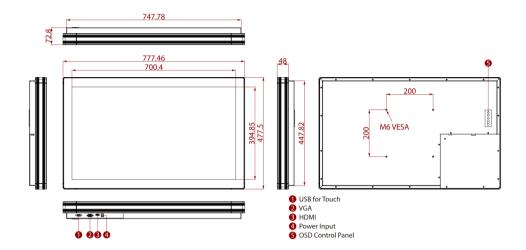
Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	НОМІ		

W24L100-GCC10D



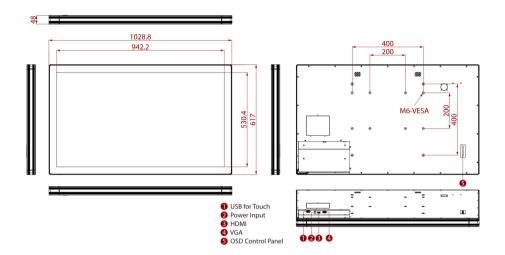
Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	HDMI		

W32L100-PCA4OD



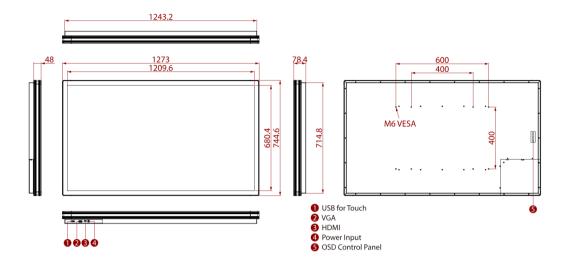
Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	HDMI		

W43L100-PCA1OD



Nº	Description	Nº	Description
1	USB for Touch	4	VGA
2	Power Input	(5)	OSD Control Panel
3	HDMI		

W55L100-PCA3OD



Nº	Description	Nº	Description
1	USB for Touch	4	Power Input
2	VGA	(5)	OSD Control Panel
3	HDMI		

1.5 Connector Description

Display input and output connectors are located on the bottom side.

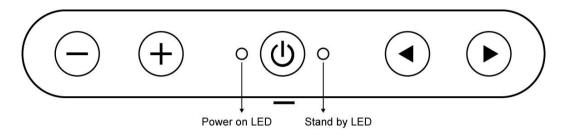
Item	Description
	Power Jack – Connects computer to source of power.
	USB for Touch - Connects USB for touch capabilities.
*****	VGA (RGB) –Transmits video from a PC to a monitor. Example: A notebook PC to a monitor.
	HDMI –Transmits and protects copyrighted digital video and audio. Example: An HD tuner to an HD ready TV.

1.6 OSD Control Panel

1.6.1 Control Buttons

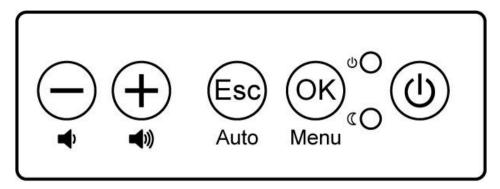
OSD control panel is located on the back side of the display and consist of control buttons and LED indicators.

Type A



lcon	Function
	Decrease the value / Select up
+	Increase the value / Select down
(1)	Power switch
•	Select left
•	Select right / Call main OSD menu

Туре В



lcon	Function
	Decrease the value / Select up
+	Increase the value / Select down
(h)	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 on the back side of the display.

Icon	Description	Function
ФО	Power Indicator	Lights up in "Green" when the monitor turn on
\mathbb{Q}	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.



Caution/ Attention

- 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 Multi-Touch PCAP Chassis Display can be applied for several different installation methods, including chassis mounting, VESA mounting. Refer to sub-sections below for more details.



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

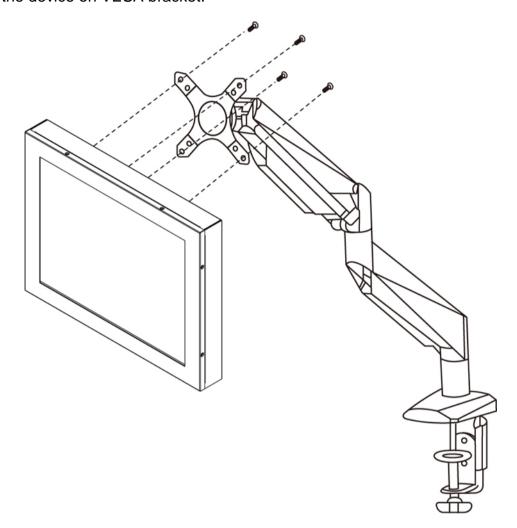
Attention Suivez les instructions de montage et d'utilisation recommandé le matériel de montage pour éviter le risque de blessure.

VESA Mount

Chassis Display comes with VESA Mount holes for mounting. Winmate provides VESA mounting kit by request.

Installation Instruction:

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



Notice that VESA stand and mounting kit are not provided by Winmate.

2.3 Cable Mounting Considerations

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



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

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



Caution Turn off the device and disconnect other peripherals before installation.

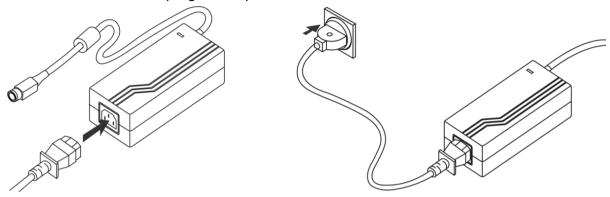
Attention Éteindre l'appareil et débrancher tous les périphériques avant l'installation.

2.4 Connecting Power

This section provides information on how to use connectors on the Multi-Touch PCAP Chassis 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.



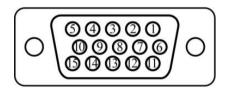
Note:

Notice that standard input terminals include VGA and HDMI. Your device may be equipped with other input terminals based on your order

2.5.1 VGA Connector

P-Cap Chassis 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 of VGA connector

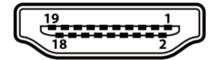


Pin №	Signal Name	Pin №	Signal Name
1	RED	2	GREEN
3	BLUE	4	NC
5	GND	6	AGND
7	AGND	8	AGND
9	VGA_5V	10	GND
11	NC	12	DDCSDA
13	H Sync	14	V Sync
15	DDCSCL		

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 of 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		

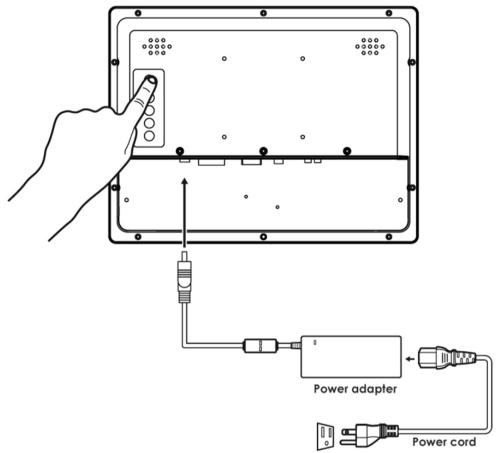
Chapter 3: Operating the Device

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.



Notice that this picture is for demonstration purpose only. The appearance of your device veries based on your order.

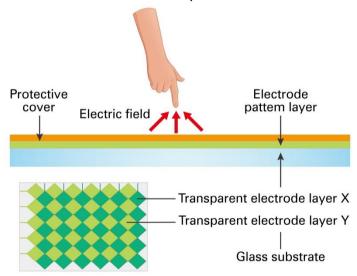
3.2 OSD Menu Navigation

OSD Icon	Sub-menu	Settings	Note								
	BRIGHTNESS	slider bar	Default 50								
BRICONTRAST	Use to adjust the screen's brightness. Range 0 to 100										
	CONTRAST	Default 50									
	Use to adjust the screen's co										
	H POSITION	slider bar	Default 50								
	Use to adjust the image to th Range 0 to 100	e left or right on the screen.									
POSITION	V POSITION	slider bar	Default 50								
	Use to adjust the image up o	r down on the screen. Range	0 to 100								
	AUTO	Select and execute									
	Use to choose the best setting										
	CLOCK	slider bar	Default 50								
	Use to adjust the value of ho	0									
+ 1 + 1	PAHSE	slider bar	Default 50								
IMAGE	Use to adjust the phase co optimize the display quality)	y be required to									
	WHITE BALANCE										
	Use to set RGB signal voltag	1									
	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									
نين	Use to set value of monitor for	or the CIE coordinate 9300 co	color 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	MMA 2 as default setting.									
	VR Brightness	ON/OFF	Default OFF								
	Choose the brightness control mode by VR control										
OP	Volume	slider bar	Default 10								
OPTION	Use to set value of Volume	1									
	Speaker	ON/OFF	Default OFF								
	Use to set value of Volume S										
	Total to con value of volume of										

OSD Icon	Sub-menu	Settings	Note						
	AUTO SCAN	Select and execute	Default mode						
	Auto detect the input so								
⊕ /⊙	ANALOG	Select and execute							
CHÁNNEL	Switch the setting of signal input to Analog mode								
	HDMI								
	Switch the setting of signal input to HDMI mode								
	YES	Select and execute							
⊕ /⊙	Recall the factory defau								
RECALL	NO	Select and execute							
	Return to main menu								
EXIT	YES	Select and execute							

3.3 Multi-Touch Screen

Multi-Touch PCAP Chassis Display features projected capacitive (PCAP) touch screen. A projected capacitive is composed of a sheet of glass with embedded transparent electrode films and an IC chip, which creates a three dimensional electrostatic field. When a finger comes into contact with the screen, the ratios of the electrical currents change and the display is able to detect the touch points.



Use multi-touch capabilities to use multiple finger gestures to do things like pinch the screen or trackpad to zoom in, spread your fingers to zoom out, and rotate your fingers to rotate an image you are editing.

3.4 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	 Check if the signal cable is firmly seated in the socket. Check if the Power is ON at the computer Check if the brightness control is at the appropriate position, not at the minimum.
The screen is not synchronized	 Check if the signal cable is firmly seated in the socket. Check if the output level matches the input level of your computer. Make sure the signal timings of the computer system are within the specification of the monitor. 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.
The position of the screen is not in the center	 Adjust the H-position, and V-position, or Perform the Auto adjustment.
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	 Perform the Auto adjustment. Moving all objects which emit a magnetic field such as motor or transformer, away from the monitor. Check if the specific voltage is applied. Check if the signal timing of the computer system is within the specification of monitor.

^{*}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: Resolution Table

V-VGA, D-DVI, H-HDMI

												R	esc	luti	on	Su	ppo	ort '	Tal	ble													
Panel Size	5.7"/ 6.5"					7" 8"/8.4"/ 12.1"					7"/ 10.1			10.4"/ 12.1"/15"		10.1"/ 12.1"			17"/19"			15.6"/ 18.5"			20.1"/ 23.1"				5.6"/18 5"/23.8 32"/ 42	10.1"/ 24"			
Panel Native Resolution	_	40x 480		800x 480				800x 600	-		1024x 600		1024x 768			1280x 800			1280x 1024			1366x 768			1600x 1200				1920: 1080	1920x 1200			
support resolution	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н	٧	D	Н
640*480 (4:3)	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	V	٧	V	٧
480P			٧			٧			٧			٧			٧			٧			٧			٧			٧			V			٧
800*480				٧	٧	٧																											
800*600 (4:3)							٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧
1024*768 (4:3)													٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	V	٧	V	٧
1280*720 (16:9) 720P			٧			٧			٧			٧			٧			٧			٧	٧	٧	٧			٧	٧	٧	V	٧	٧	٧
1280*768																						٧	٧	٧									
1280*800 (16:10)																٧	٧	٧										٧	V	V	٧	٧	٧
1280*1024 (5:4)																			٧	٧	٧				٧	٧	٧	٧	٧	V	٧	٧	٧
1366*768																						٧	٧	٧									
1400*1050 (4:3)																									٧	٧	٧						
1440*900 (16:10)																												٧	٧	V	٧	V	٧
1600*1200 (4:3)																									٧	٧	٧						
1680*1050 (16:10)																												V	٧	V	٧	٧	٧
1920*1080 (16:9)1080P			٧			٧			٧			V			٧			٧			٧			٧			٧	V	٧	V	٧	٧	٧
1920*1200 (16:10)																															V	٧	٧

Appendix B: Frequency Table

	Frequency Table			
	Vertical Frequency	٧	D	Н
640*480(4:3)	60	V	V	V
	72	V		
	75	V		
480P	60	V	V	V
800*480	60	V	V	V
	60	V	V	٧
800*600(4:3)	72	V		
	75	V		
1024*768(4:3)	60	V	V	V
	75	V		
1280*720(16:9) 720P	60	V	V	V
1280*768	60	V	V	V
1280*800(16:10)	60	V	V	V
1000*1001(5.1)	60	V	V	V
1280*1024(5:4)	75	V		
1366*768	60	V	V	V
1400*1050(4:3)	60	V	V	V
1440*900(16:10)	60	V	V	V
1600*1200(4:3)	60	V	V	V
1680*1050(16:10)	60	V	V	V
1920*1080(16:9)1080P	60	V	V	V
1920*1200(16:10)	60	V	V	V

NOTE	

NOTE	



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