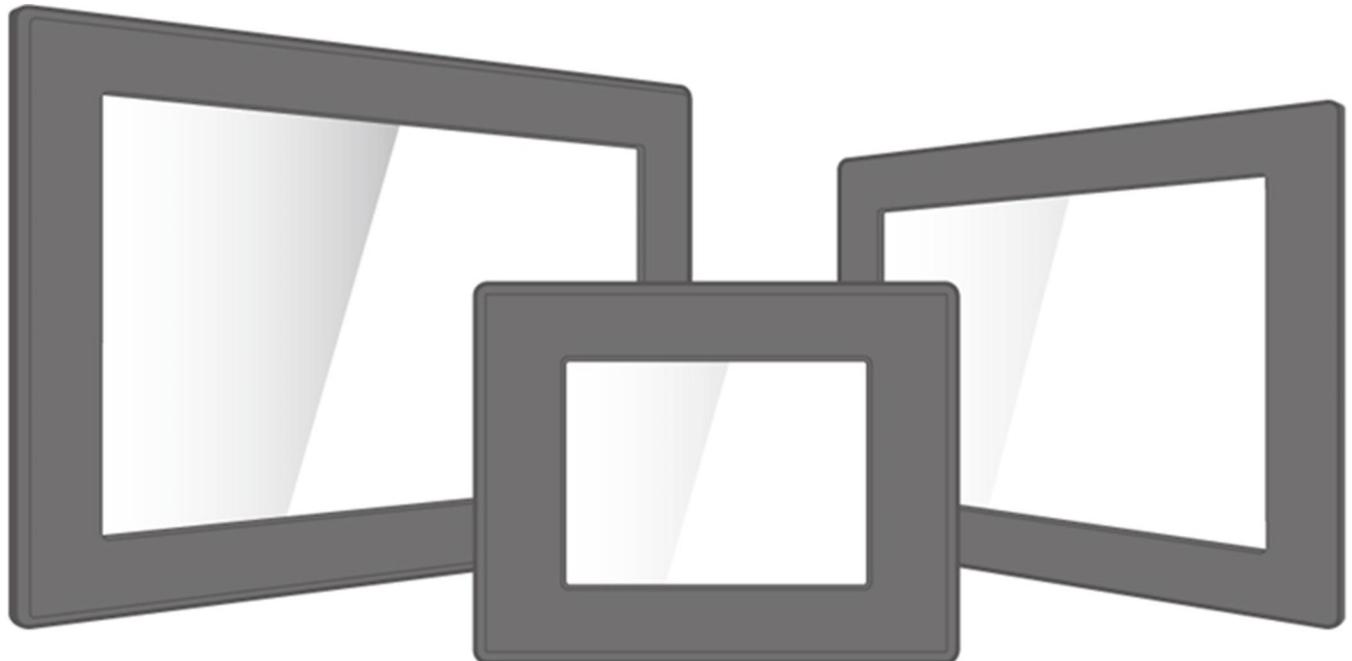




# **Chassis Display Series**

## **6.5"~38"**



# **User Manual**

Version 1.4  
Document Part Number: 91521110101K

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.

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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 1W16Axxxxxxx 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.

## 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** Une alerte d'attention indique un dommage possible à l'équipement et explique comment éviter le problème 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 choc sur des emplacements électriques et comment éviter ces 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 Mise à Terre indique le risqué potentiel 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 châssis lorsque vous travaillez sur celui-ci. Ne pas brancher de connexions lorsque l'alimentation est présente. Des composantes électroniques sensibles peuvent être endommagées par des sauts d'alimentation. Seulement du personnel expérimenté devrait ouvrir ces châssis.



**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 vérifier votre mise à la terre afin d'éliminer toute charge statique avant de toucher la carte CPU. Les équipements électroniques modernes 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 la charge, ou dans un sac anti-statique lorsqu'elles ne sont pas dans le châssis.

## 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.
- 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.

## About This User Manual

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

- **Chassis Display Series 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     | 25-Aug-2017 | New document release.   |
| 1.1     | 22-Nov-2018 | Add 42/55-inch display.   |
| 1.2     | 26-Aug-2020 | Standard video input change to 1 x VGA (D-sub 15), 1 x HDMI (Type-A). |
| 1.3     | 11-Sep-2020 | Revise resolution table, frequency table.                             |
| 1.4     | 2-Dec-2020  | Add Appendix C: Product Dimensions.                                   |

## 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® Chassis Display Series. Versatile display in a chassis housing designed for rear and VESA mount with integrated bracket design for industrial applications.

## 1.2 Product Features

Winmate® Chassis Display Series features:

- 6.5"-38" TFT LCD
- Standard 1 x VGA (D-sub 15), 1 x HDMI (Type-A)
- Chassis housing
- Sleek and flush mounts, supports VESA mount
- Transflective and wide temperature available for selected display sizes
- Suitable for industrial applications

## 1.3 Package Contents

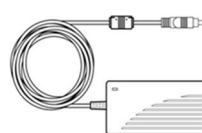
Carefully remove the box and unpack your display. Accessories may vary based on your order .Please check if all the items listed below are inside your package. If any of the ordered items are missing or damaged contact us immediately.



- **User Manual (Hardcopy)**  
Part No. 91521110101F



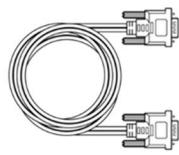
- **Black Screw Bolts\***  
Varies by product



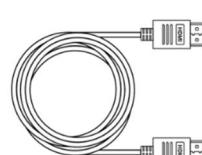
- **110~240V AC Power Adapter**  
Varies by product



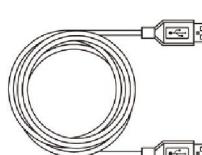
- **Power Cord**  
Varies by country



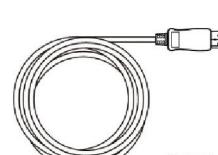
- **VGA Cable**  
Part No. 9441151150Q8



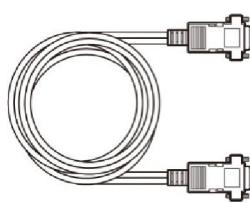
- **HDMI Cable**  
Part No. 94E0190190P3



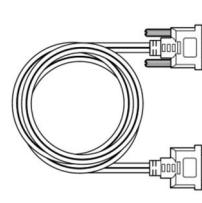
- **USB Cable**  
Part No. 948018102100



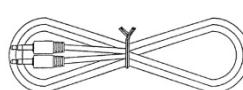
- **Display Port Cable**  
Part No. 94E0200200K0



- **RS232 Cable**  
Part No. 94G4094090K1



- **DVI Cable**  
Part No. 9455295290Q0



- **Audio Cable**  
Part No. 946020100000



- **Remote Control**  
Part No. 9B0000000418

\*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 Chassis Display Series.



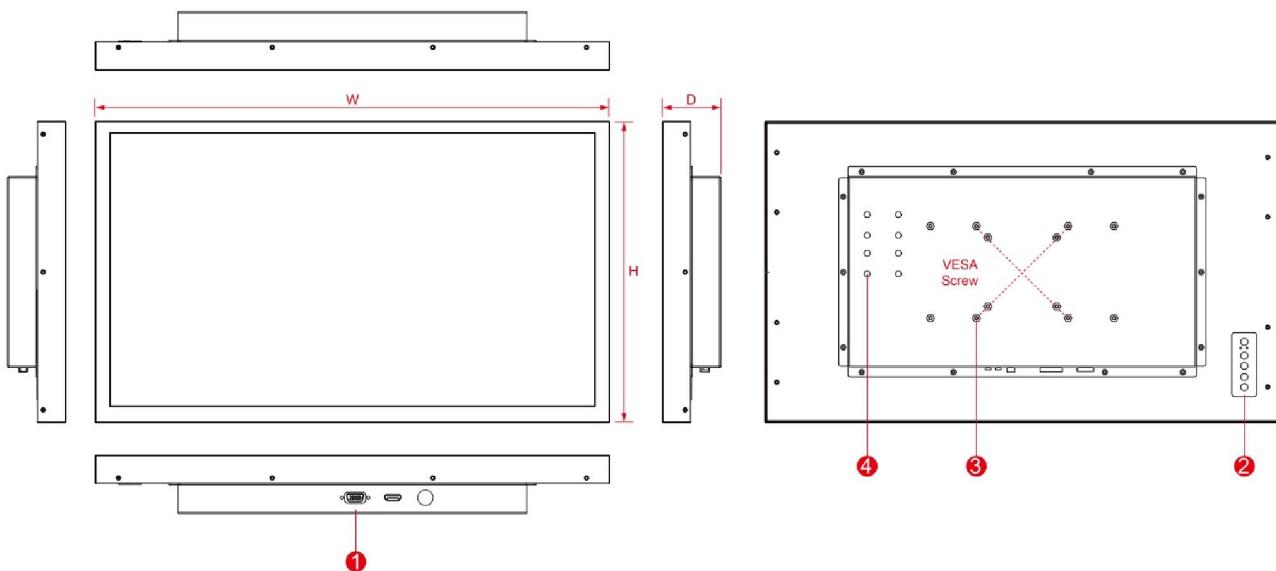
**Note:** Notice that standard input terminals include VGA and HDMI. Your device may be equipped with other input terminals based on your order.



**Note:** Notice that input and output connectors may vary by product size and specifications. The picture above shows only a prototype model for information purposes only. The location of OSD panel may vary by model. Refer to a product datasheet for more details.

For product dimensions and VESA dimensions of the specific model, please refer to the [Appendix C](#) of this user manual.

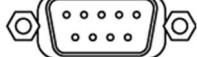
Unit: W x H x D, mm



| No | Item              | Description   |
|----|-------------------|---|
| 1  | I/O Connectors    | Use input/ output connectors to connect your display to external devices such as an external PC or notebook, speaker or headphones. Input and output connectors vary by product size and specifications. Standard input terminals include VGA and HDMI. Your device may be equipped with other input terminals based on your order. |
| 2  | OSD Control Panel | An on-screen display (OSD) is a control panel on a display allows you to select viewing options and/or adjust components of the display, such as brightness, contrast, and horizontal and vertical positioning.   |
| 3  | VESA Mount        | VESA is a standard used for mounting displays to stands or wall mounts. VESA dimensions vary by display size.   |
| 4  | Speaker           | The speaker generates a sound. Notice that it is an optional feature and may not be present in your device.   |

## 1.5 Connector Description

Display input and output connectors are located on the bottom side. Notice that input and output connectors may vary by product size and specifications.

| Item  | Description  |
|---|--|
|    | <b>Power Jack</b> – Connects computer to source of power.  |
|    | <b>USB for Touch</b> - Connects USB for touch capabilities.  |
|    | <b>VGA (RGB)</b> –Transmits video from a PC to a display.<br><i>Example: A notebook PC to a display.</i>                                     |
|    | <b>HDMI</b> –Transmits and protects copyrighted digital video and audio.<br><i>Example: An HD ready TV to a display.</i>                     |
|    | <b>DVI</b> – Transmits video from a PC to a display.<br><i>Example: A notebook PC to a display.</i>  |
|  | <b>Display Port</b> – Transmits a video signal from a PC to a display.<br><i>Example: A TV to a display.</i>                                 |
|  | <b>S-Video</b> – Transmits al standard definition video, typically 480i or 576 from a PC to a display.<br><i>Example: A TV to a display.</i> |
|  | <b>Composite Video (Yellow)</b> – Transmits analog video signal from an external PC to a display.<br><i>Example: A TV to a display.</i>      |
|  | <b>RS232 for Remote Control</b> –For remote control.<br><i>Example: A remote controller.</i>   |
|  | <b>RS232 for Touch</b> – For touch capabilities.<br><i>Example: A touch to display.</i>  |
|  | <b>USB for Touch</b> –For touch capabilities.<br><i>Example: A touch to display.</i>   |
|  | <b>Audio (Green)</b> – Transmits audio signal audio-in.<br><i>Example: A sound system to a display.</i>                                      |

## 1.6 OSD Control Panel

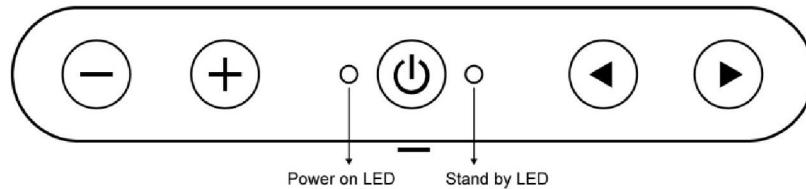
### 1.6.1 OSD Control Panel Location

The location of the OSD control panel may vary by model. Please refer to product datasheet for more details.

### 1.6.2 Control Buttons

OSD control panel varies by product specifications. Refer to a product datasheet to check the OSD control panel type of a particular model.

#### Type A

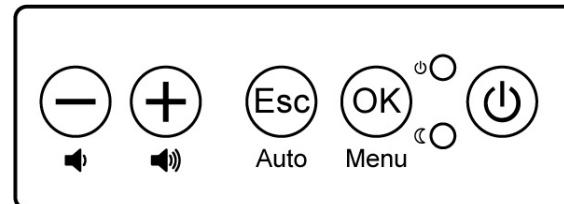


#### Buttons

| Icon         | Function                                  |
|--------------|---|
| (-)          | Decrease the value / Select up            |
| (+)          | Increase the value / Select down          |
| (power icon) | Power switch                              |
| (◀)          | Select left / Exit / Auto adjustment      |
| (▶)          | Select right / Call main OSD menu / Enter |

#### LED Indicators

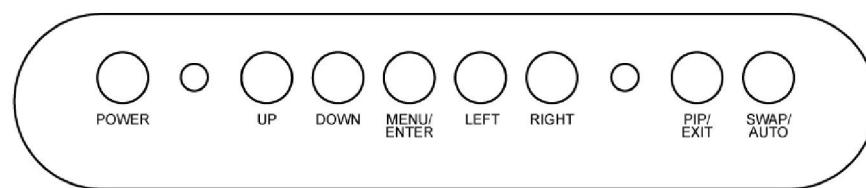
| Description | Function   |
|-------------|--|
| Power       | Lights up in "Green" when the monitor turn on                        |
| Stand by    | Lights up in "Orange" when the device cannot detect any input source |

**Type B***Buttons*

| Icon          | Function                                  |
|---------------|---|
| (-)           | Decrease the value / Select up            |
| (+)           | Increase the value / Select down          |
| (Power)       | Power switch                              |
| (Esc)<br>Auto | Select left / Exit / Auto adjustment      |
| (OK)<br>Menu  | Select right / Call main OSD menu / Enter |

*LED Indicators*

| Icon             | Description | Function  |
|------------------|-------------|---|
| (Green Power)    | Power       | Lights up in "Green" when the monitor turn on                         |
| (Orange Standby) | Stand by    | Lights up in "Orange" when the device cannot detect any input source. |

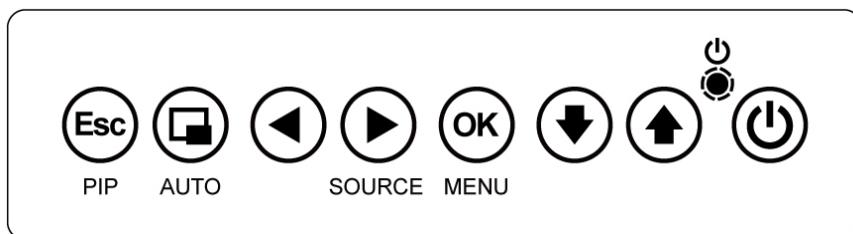
**Type C***Buttons*

| Icon                   | Function                                   |
|------------------------|--|
| <b>POWER</b>           | Power switch                               |
| <b>UP</b>              | Select up                                  |
| <b>DOWN</b>            | Select down                                |
| <b>MENU/<br/>ENTER</b> | Call main OSD menu/ Enter                  |
| <b>LEFT</b>            | Select left / Decrease the value           |
| <b>RIGHT</b>           | Select right / Increase the value / Source |
| <b>PIP/ EXIT</b>       | Opens PIP/ Exit                            |
| <b>SWAP/<br/>AUTO</b>  | PIP SWAP/ AUTO adjustment                  |

## LED Indicators

| Description     | Function   |
|-----------------|--|
| <b>Power</b>    | Lights up in "Green" when the monitor turn on                        |
| <b>Stand by</b> | Lights up in "Orange" when the device cannot detect any input source |

## Type D



## Buttons

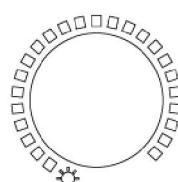
| Icon  | Function                                   |
|-------|--|
| Esc   | Exit / PIP                                 |
| PIP   |  |
| AUTO  | PIP SWAP/ AUTO adjustment                  |
| ◀     | Select left / Decrease the value           |
| ▶     | Select right / Increase the value / Source |
| OK    |  |
| MENU  | Enter / Call main OSD menu                 |
| ▼     | Select down                                |
| ▲     | Select up                                  |
| POWER | Power switch                               |

## LED Indicators

| Description     | Function   |
|-----------------|--|
| <b>Power</b>    | Lights up in "Green" when the monitor turn on                        |
| <b>Stand by</b> | Lights up in "Orange" when the device cannot detect any input source |

### 1.6.3 Brightness Adjustment Knob

Brightness adjustment knob is located on the OSD control panel the rear side of the display.



## **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 Chassis Display Series supports VESA mount. Refer to sub-sections below for more details.



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

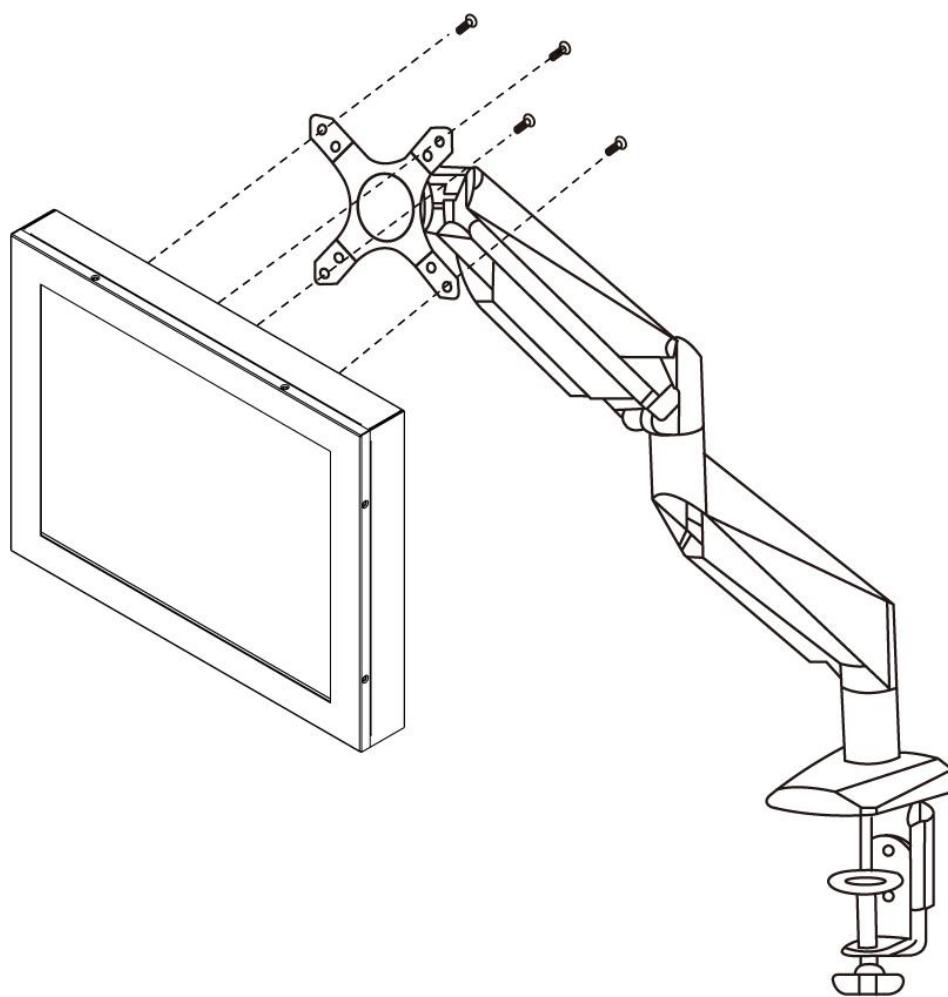
**Attention** Suivez les instructions de montage et d'utilisation recommandé le matériel de montage pour éviter le risque de blessure.

### VESA Mount

Chassis Display Series comes with VESA Mount holes for mounting. Winmate provides VESA mount 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.

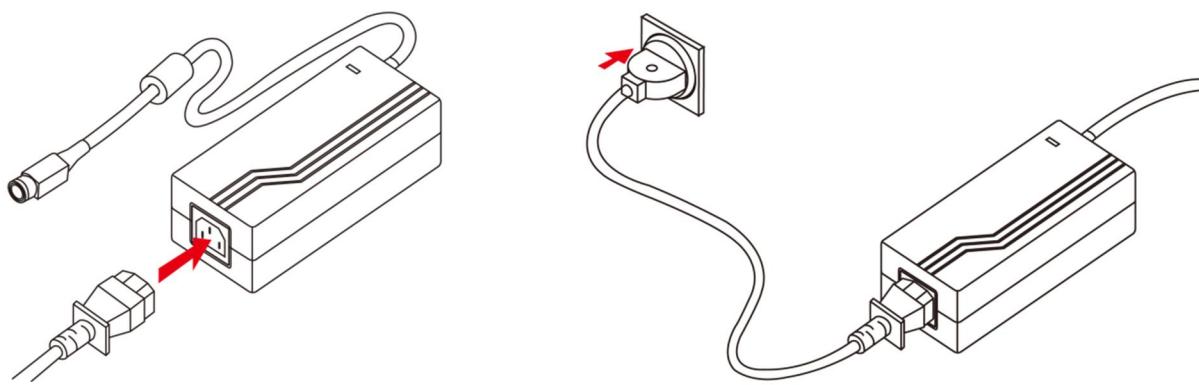
**Attention** Éteindre l'appareil et débrancher tous les périphériques avant l'installation.

## 2.4 Connecting Power

This section provides information on how to use connectors on the Chassis Display Series. 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.



Notice that the type of connector varies based on your order.

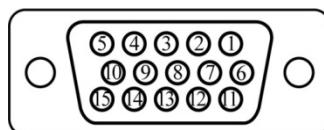
## 2.5 Connecting Peripherals

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.

### 2.5.1 VGA Connector

The Chassis Display Series 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*

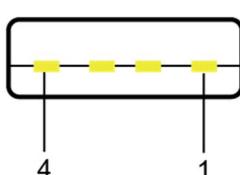


| Pin № | Signal Name | Pin № | Signal Name |
|-------|-------------|-------|-------------|
| 1     | RED         | 2     | GREEN       |
| 3     | BLUE        | 4     | NC          |
| 5     | GND         | 6     | AGND        |
| 7     | AGND        | 8     | AGND        |
| 9     | VGA_5V      | 10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

### 2.5.2 USB Connector for Touch

Use USB connector for touch capabilities.

*Pin assignment and signal names of USB connector for touch*

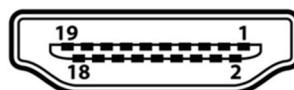


| Pin No. | Signal Name | Pin No. | Signal Name |
|---------|-------------|---------|-------------|
| 1       | +5V         | 2       | Data-       |
| 3       | Data+       | 4       | GND         |

### 2.5.3 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*

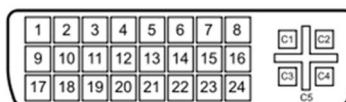


| Pin № | Signal Name  | Pin № | Signal Name  |
|-------|--------------|-------|--------------|
| 1     | HDMI_RX2+    | 2     | GND          |
| 3     | HDMI_RX2-    | 4     | HDMI_RX1+    |
| 5     | GND          | 6     | HDMI_RX1-    |
| 7     | HDMI_RX0+    | 8     | GND          |
| 9     | HDMI_RX0-    | 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  |       |              |

### 2.5.4 DVI Connector

Use DVI cable to connect your TFT LCD display to the external PC system. Fasten cable connectors with screws.

*Pin assignment and signal names of DVI connector*



| Pin № | Signal Name | Pin № | Signal Name |
|-------|-------------|-------|-------------|
| 1     | TMDS2-      | 2     | TMDS2+      |
| 3     | GND         | 4     | TMDS 4-     |
| 5     | TMDS4+      | 6     | DVI_SCL     |
| 7     | DVI_SDA     | 8     | NC          |
| 9     | TMDS1-      | 10    | DVI_RX1+    |
| 11    | GND         | 12    | TMDS 3-     |
| 13    | TMDS3+      | 14    | +5V         |
| 15    | GND         | 16    | DVI_CON_HP  |
| 17    | TMDS0-      | 18    | TMDS0+      |
| 19    | GND         | 20    | TMDS5-      |
| 21    | TMDS5+      | 22    | GND         |
| 23    | DVI_CLKP    | 24    | DVI_CLKN    |
| C1    | NC          | C2    | NC          |
| C3    | NC          | C4    | NC          |
| C5    | NC          |       |             |

### 2.5.5 S-Video Connector

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

*Pin assignment and signal names of S-Video connector*

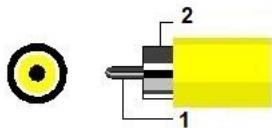


| Pin № | Signal Name | Pin № | Signal Name |
|-------|-------------|-------|-------------|
| 1     | GND         | 2     | GND         |
| 3     | Y           | 4     | C           |

### 2.5.6 Composite Video Connector

Use composite video cable to connect composite video input.

*Pin assignment and signal names for Composite Video connector*

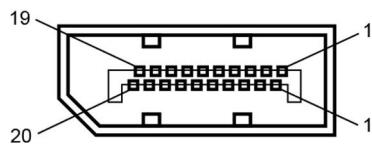


| Pin № | Signal Name            | Pin № | Signal Name |
|-------|------------------------|-------|-------------|
| 1     | Composite Video Signal | 2     | GND         |

### 2.5.7 Display Port Connector

Use Display Port cable to connect your TFT LCD display to the external PC system.

*Pin assignment and signal name of Display Port connector*

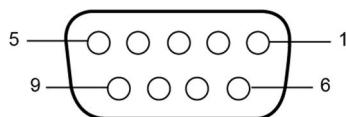


| Pin No. | Signal Name | Pin No. | Signal Name |
|---------|-------------|---------|-------------|
| 1       | Lane 0 P    | 2       | GND         |
| 3       | Lane 0 N    | 4       | Lane 1 P    |
| 5       | GND         | 6       | Lane 1 N    |
| 7       | Lane 2 P    | 8       | GND         |
| 9       | Lane 2 N    | 10      | Lane 3 P    |
| 11      | GND         | 12      | Lane 3 N    |
| 13      | GND         | 14      | GND         |
| 15      | AUX P       | 16      | GND         |
| 17      | AUX N       | 18      | Hot Plug    |
| 19      | Return      | 20      | DP_PWR      |

### 2.5.8 RS232 Connector for Remote Control

Use RS232 cable to connect your TFT LCD display to remote control.

*Pin assignment and signal name of RS-232 connector for remote control*

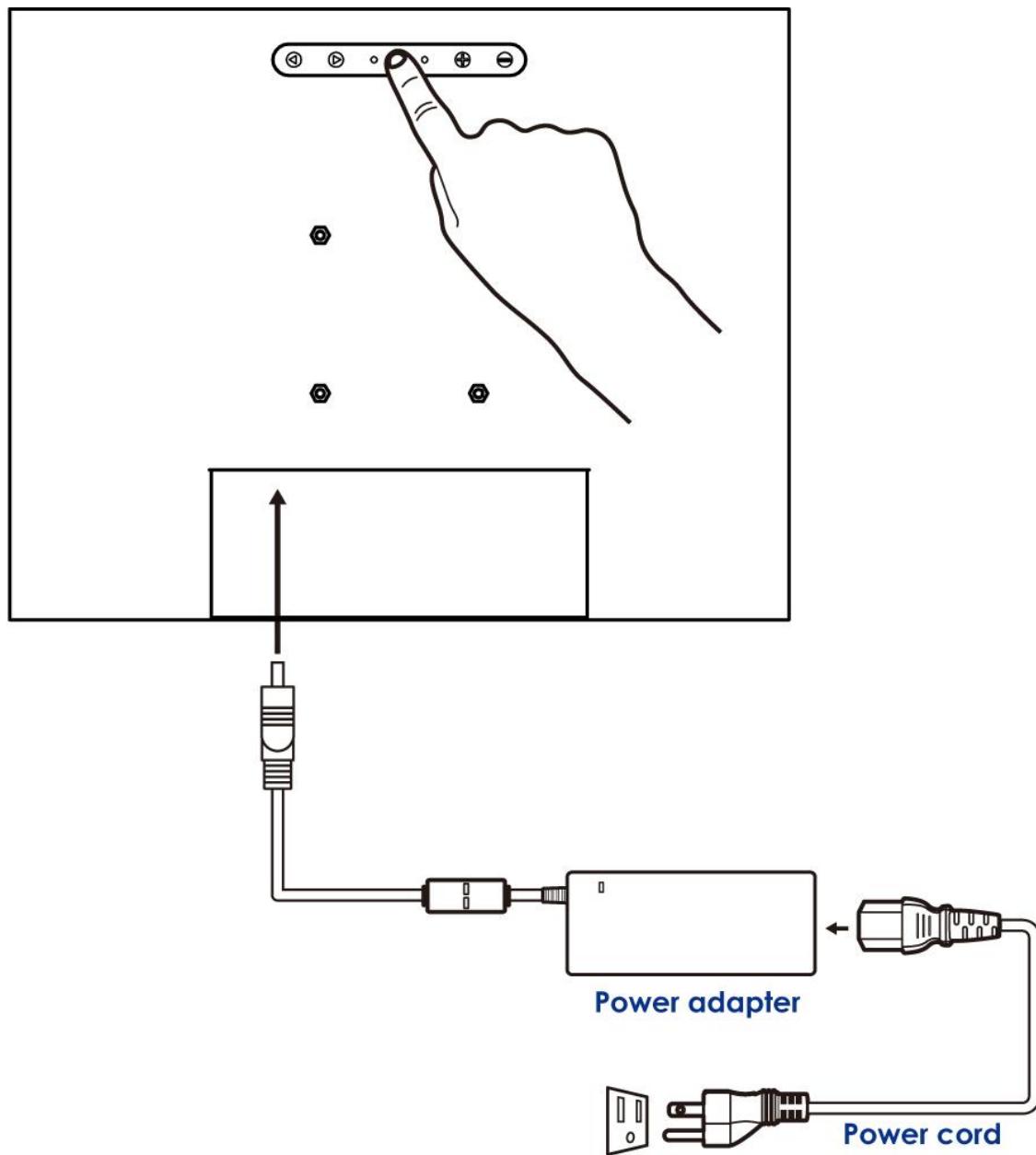


| Pin No. | Signal Name | Signal Name                           |
|---------|-------------|---------------------------------------|
| 1       | DCD         | NC (no connection)                    |
| 2       | RXD         | Reception data                        |
| 3       | TXD         | Transmission data                     |
| 4       | DTR         | Data terminal ready                   |
| 5       | GND         | GND                                   |
| 6       | DSR         | Data set ready                        |
| 7       | RTS         | Request to send                       |
| 8       | CTS         | Short circuit at pin 7 on the display |
| 9       | RI          | NC (no connection)                    |

### 3.1 Turning on the System

To turn on the system:

1. Connect the power adapter cable to the DC IN 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 the type of connector varies based on your order.

## **Chapter 3: Operating the Device**

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

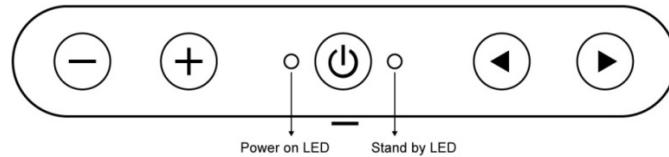
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### 3.2 OSD Menu Navigation

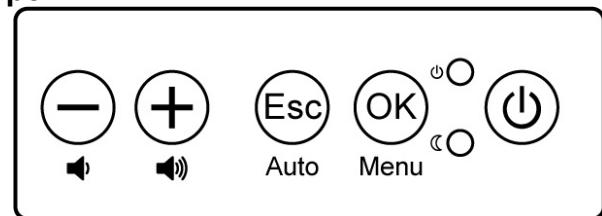
The OSD menu varies based on your OSD control panel.

#### For 5 Key OSD Control Panel

Type A



Type B

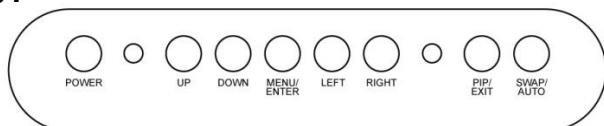


| OSD Icon        | Sub-menu   | Settings           | Note       |
|-----------------|--|--------------------|------------|
| <br>BRICONTRAST | BRIGHTNESS   | slider bar         | Default 50 |
|                 | Use to adjust the screen's brightness. Range 0 to 100  |                    |            |
|                 | CONTRAST   | slider bar         | Default 50 |
|                 | Use to adjust the screen's contrast. Range 0 to 100  |                    |            |
| <br>POSITION    | H POSITION   | slider bar         |            |
|                 | Use to adjust the image to the left or right on the screen.<br>Range 0 to 100                      |                    |            |
|                 | V POSITION   | slider bar         |            |
|                 | Use to adjust the image up or down on the screen. Range 0 to 100                                   |                    |            |
| <br>IMAGE       | AUTO   | Select and execute |            |
|                 | Use to choose the best settings for the current input signal                                       |                    |            |
|                 | CLOCK  | slider bar         |            |
|                 | Use to adjust the value of horizontal image. Range 0 to 100  |                    |            |
|                 | PHASE  | slider bar         |            |
|                 | Use to adjust the phase control (Phase adjustment may be required to optimize the display quality) |                    |            |
|                 | WHITE BALANCE  | Select and execute |            |
|                 | Use to set RGB signal voltage level  |                    |            |

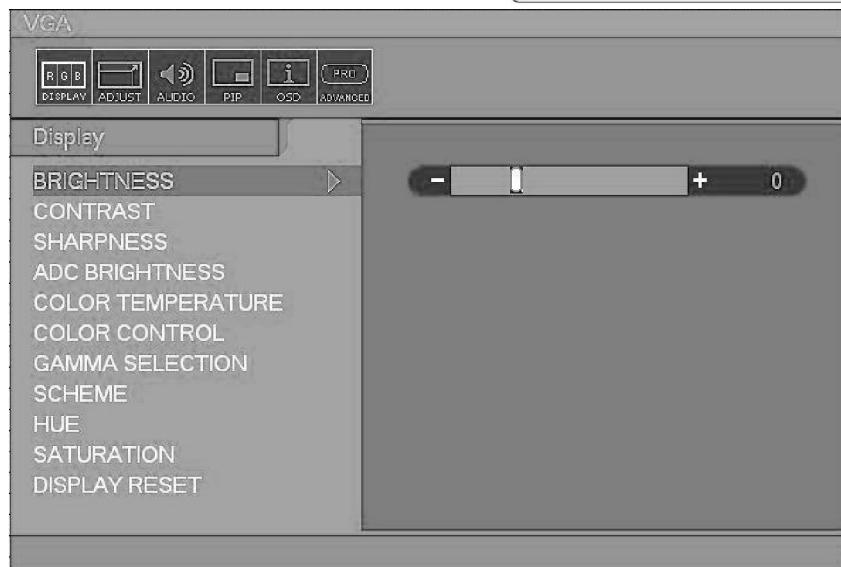
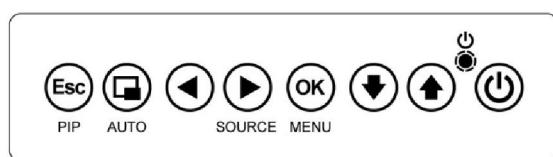
| OSD Icon   | Sub-menu   | Settings           | Note                               |
|--|--|--------------------|------------------------------------|
| <br>COLOR         | USER   | R.G.B slider bar   | Default USER                       |
|  | Choose RED/GREEN/BLUE to set value of color temperature brightness to suit your own preference |                    |                                    |
|  | 9300K  | Select and execute |                                    |
|  | Use to set value of display for the CIE coordinate 9300 color temperature                      |                    |                                    |
|  | 6500K  | Select and execute |                                    |
|  | Use to set value of display for the CIE coordinate 6500 color temperature                      |                    |                                    |
| <br>XII<br>GAMMA  | ADC RIGHTNESS  | slider bar         | Default 50                         |
|  | Set value of display for ADC Brightness. Range 0 to 100  |                    |                                    |
|  | GAMMA 0  | Select and execute | Default GAMMA0                     |
|  | Choose the parameter of GAMMA 0 as default setting.  |                    |                                    |
|  | GAMMA 1  | Select and execute |                                    |
|  | Choose the parameter of GAMMA 1 as default setting.  |                    |                                    |
| <br>OP<br>OPTION | GAMMA 2  | Select and execute |                                    |
|  | Choose the parameter of GAMMA 2 as default setting.  |                    |                                    |
|  | VR Brightness  | ON/OFF             | Default OFF<br>(Optional Function) |
|  | Choose the brightness control mode by VR control   |                    |                                    |
|  | Volume   | slider bar         | Default 10                         |
|  | Use to set value of Volume   |                    |                                    |
| <br>CHANNEL     | Speaker  | ON/OFF             | Default OFF                        |
|  | Use to set value of Volume Speaker   |                    |                                    |
|  | AUTO SCAN  | Select and execute | Default mode                       |
|  | Auto detect the input source   |                    |                                    |
|  | ANALOG   | Select and execute |                                    |
|  | Switch the setting of signal input to Analog mode  |                    |                                    |
| <br>RECALL      | HDMI/ DVI/ DP  | Select and execute | Optional                           |
|  | Switch the setting of signal input to HDMI mode  |                    |                                    |
|  | YES  | Select and execute |                                    |
|  | Recall the factory default setting   |                    |                                    |
| <br>EXIT        | NO   | Select and execute |                                    |
|  | Return to main menu  |                    |                                    |
|  | YES  | Select and execute |                                    |
|  | Exit the OSD menu  |                    |                                    |
|  | NO   | Select and execute |                                    |
|  | Return to main menu  |                    |                                    |

## For 8 Key OSD Control Panel

**Type C**



**Type D**



| OSD icon   | Sub-menu  | Settings                | Note |
|--|---|-------------------------|------|
| <br><b>DISPLAY</b>   | <b>BRIGHTNESS</b>   | <b>slider bar</b>       |      |
|  | Adjusts the overall image and background brightness. Press "◀" or "▶" to adjust.  |                         |      |
|  | <b>CONTRAST</b>   | <b>slider bar</b>       |      |
|  | Adjusts the image brightness in relationship to the background. Press "◀" or "▶" to adjust.   |                         |      |
|  | <b>SHARPNESS</b>  | <b>slider bar</b>       |      |
|  | Adjusts the crispness of the image. Press "◀" or "▶" to adjust.   |                         |      |
|  | <b>ADC BRIGHTNESS</b><br>*VGA CHANNEL ONLY  | <b>slider bar</b>       |      |
|  | Adjusts the ADC brightness. Press "◀" or "▶" to adjust.   |                         |      |
|  | <b>COLOR TEMPERATURE</b>  | <b>USER/6500K/9300K</b> |      |
|  | Adjusts the color temperature of the entire screen. A low color temperature will make the screen reddish. A high color temperature will make the screen bluish. |                         |      |
| <br><b>COLOR CONTROL</b>   | <b>R slider bar</b>   |                         |      |
|  | <b>G slider bar</b>   |                         |      |
|  | <b>B slider bar</b>   |                         |      |
|  | <b>Y slider bar</b>   |                         |      |
|  | <b>M slider bar</b>   |                         |      |
|  | <b>C slider bar</b>   |                         |      |
| Adjusts the levels of the Red, Green, Blue, Yellow, magenta, and cyan. Press "◀" or "▶" to adjust. |   |                         |      |
| <b>GAMMA SELECTION</b>   | <b>@NATIVE</b>  |                         |      |
|  | <b>@1.8</b>   |                         |      |
|  | <b>@2.2</b>   |                         |      |
| Select a display gamma value for best picture quality.   |   |                         |      |
| <b>SCHEME</b>  | <b>USER</b>   |                         |      |
|  | <b>GAME</b>   |                         |      |
|  | <b>SPORT</b>  |                         |      |
|  | <b>VIVID</b>  |                         |      |
|  | <b>CINEMA</b>   |                         |      |
| Select scheme for different default setting combination.   |   |                         |      |
| <b>DISPLAY RESET</b>   | <b>YES/NO</b>   |                         |      |
| Resets the following settings within the DISPLAY menu back to factory setting:                     |   |                         |      |

| OSD icon   | Sub-menu  | Settings   | Note |
|--|---|--|------|
| <br>ADJUST  | <b>AUTO SETUP</b><br>*VGA CHANNEL ONLY  | <b>PRESS YES TO AUTO SETUP</b>   |      |
|  | Automatically adjusts screen size, H position, V position, Clock, Clock Phase   |  |      |
|  | <b>AUTO ADJUSTMENT</b><br>*VGA CHANNEL ONLY   | <b>ON/OFF</b>  |      |
|  | H Position, V Position and Clock Phase are adjusted automatically upon power on.  |  |      |
|  | <b>H POSITION</b><br>*VGA CHANNEL ONLY  | <b>slider bar</b>  |      |
|  | Controls the horizontal position of the image within the Display area of the LCD.<br>Press + to move right. Press - to move left. |  |      |
|  | <b>V POSITION</b><br>*VGA CHANNEL ONLY  | <b>slider bar</b>  |      |
|  | Controls the vertical position of the image within the Display area of the LCD.<br>Press + to move up. Press - to move down.      |  |      |
|  | <b>CLOCK</b><br>*VGA CHANNEL ONLY   | <b>slider bar</b>  |      |
|  | Press + to expand the width of the image on the right of the screen.<br>Press - to narrow the width of the image on the left.     |  |      |
|  | <b>PHASE</b><br>*VGA CHANNEL ONLY   | <b>slider bar</b>  |      |
|  | Adjusts the visual "noise" on the image.  |  |      |
|  | <b>WHITE BALANCE</b><br>*VGA CHANNEL ONLY   | <b>YES/NO</b>  |      |
|  | Perform the white balance   |  |      |
| <br>AUDIO | <b>SCALING</b>  | <b>@ ASPECT</b>  |      |
|  |   | <b>@ OFF</b>   |      |
|  |   | <b>@ FULL</b>  |      |
|  | Adjust the image scaling setting  |  |      |
|  | <b>ADJUST RESET</b>   | <b>YES/NO</b>  |      |
| Resets the following settings within the ADJUST menu back to factory setting.                |   |  |      |
| <br>PIP   | <b>PIP SOURCE</b>   | <b>VGA</b>   |      |
|  |   | <b>DVI</b>   |      |
|  |   | <b>Composite</b>   |      |
|  |   | <b>S-Video</b>   |      |
|  | <b>PIP MODE</b>   | <b>@OFF</b>  |      |
|  |   | <b>@LARGE PIP</b>  |      |
|  |   | <b>@SMALL PIP</b>  |      |
|  |   | <b>@SIDE BY SIDE ASPECT</b>  |      |
|  |   | <b>@SIDE BY SIDE FULL</b>  |      |
|  |   | Selects the size of the sub-picture used in Picture-in-Picture (PIP) mode. |      |
|  | <b>PIP POSITION</b>   | <b>BOTTOM RIGHT</b>  |      |
|  |   | <b>TOP RIGHT</b>   |      |
|  |   | <b>TOP LEFT</b>  |      |
|  |   | <b>BOTTOM LEFT</b>   |      |
|  | Determines where the PIP appears on the screen.   |  |      |
|  | <b>PIP RESET</b>  | <b>YES/NO</b>  |      |
|  | Resets the following settings within the PIP menu back to factory setting.  |  |      |

| OSD icon   | Sub-menu  | Settings                             | Note |
|--|---|--------------------------------------|------|
|  OSD        | OSD TURN OFF  | slider bar                           |      |
|  | Turns off the OSD after a period of inactivity. The preset choices are 0-60 seconds.                    |                                      |      |
|  | OSD POSITION  | H - slider bar                       |      |
|  |   | V - slider bar                       |      |
|  | Determines the location where the OSD appears on the screen.  |                                      |      |
|  | OSD TRANSPARENCY  | @OFF                                 |      |
|  |   | @TYPE1                               |      |
|  |   | @TYPE2                               |      |
|  | set the transparency level of OSD.  |                                      |      |
|  | OSD Rotated   | @OFF                                 |      |
|  |   | @90                                  |      |
|  |   | @270                                 |      |
|  | Set to rotate the OSD menu.   |                                      |      |
|  ADVANCED | MONITOR INFORMATION   | Version                              |      |
|  |   | Panel Resolution                     |      |
|  |   | Main Resolution                      |      |
|  |   | PIP Resolution                       |      |
|  |   | Show BIOS version & resolution info. |      |
|  | OSD RESET   | YES/NO                               |      |
|  | Resets the following settings auto.   |                                      |      |
|  | CHANNEL SELECT  | VGA                                  |      |
|  |   | AUTO                                 |      |
|  |   | DVI                                  |      |
|  |   | CVBS                                 |      |
|  |   | SVIDEO                               |      |
|  | Select the input signal source.   |                                      |      |
|  | FLIP  | @OFF                                 |      |
|  |   | @H-FLIP                              |      |
|  |   | @V-FLIP                              |      |
|  |   | @HV-FLIP                             |      |
|  | Adjust the flip settings.   |                                      |      |
|  | BRIGHTNESS MIN  | Slider bar                           |      |
|  | SCAN MODE   | OVER SCAN                            |      |
|  |   | UNDER SCAN                           |      |
|  | ADVANCED RESET  | YES/NO                               |      |
|  | Resets the following settings within the ADVANCED menu back to factory setting.                         |                                      |      |
|  | FACTORY RESET   | YES/NO                               |      |
|  | Resets OSD options back to factory settings EXCEPT FOR: CHANGE SECURITY PASSWORD and SECURITY PASSWORD. |                                      |      |

### 3.3 Troubleshooting Guide

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

| Condition  | Check Point  |
|--|--|
| <b>The picture does not appear</b>                     | <ul style="list-style-type: none"> <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>   |
| <b>The screen is not synchronized</b>                  | <ul style="list-style-type: none"> <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 display.</li> <li>✓ If your computer was working with a CRT display, you should check the current signal timing and turn off your computer before you connect the VGA Cable to this display.</li> </ul> |
| <b>The position of the screen is not in the center</b> | <ul style="list-style-type: none"> <li>✓ Adjust the H-position, and V-position, or Perform the Auto adjustment.</li> </ul>   |
| <b>The screen is too bright (too dark)</b>             | <ul style="list-style-type: none"> <li>✓ Check if the brightness or contrast control is at the appropriate position, not at the Maximum (Minimum).</li> </ul>  |
| <b>The screen is shaking or waving</b>                 | <ul style="list-style-type: none"> <li>✓ Perform the Auto adjustment.</li> <li>✓ Moving all objects which emit a magnetic field such as motor or transformer, away from the display.</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 display.</li> </ul>  |

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

## **Chapter 4: Technology**

This chapter describes technology behind selected display series, including wide temperature and transflective technology.



## 4.1 Wide Temperature Technology

Our selected TFT-LCD modules are designed to deliver optimum performance over a wide range of temperatures from -20°C to +60° C in order to accommodate for diverse industrial applications such as outdoor kiosks in winter and summer.

### How does this technology work?

With our heater electronic control mechanism with temperature sensors, the heater control board can control the heater on or off and then regulate the internal system temperature change.

In generally test condition, real case should depend on your panel and mechanical selection. At the low temperature condition, the mechanism starts from pre-heating process and then the LCD panel turn on when its 4°C. When the internal temperature drop below 7° C, the heater will be turned on again to keep the system on and keep the temperature above 0° C.

On the other side, at the high temperature condition, the mechanism maintains the power switch to protect from overheating. The power will turn off when over 65°C, and will back to turn on status when the internal temperature drops back to 55° C. With advanced fan cooling system design, the turn-off temperature can also be applied on this mechanism. Combined with mechanical NMEA/ IP rated front bezel and other technical module integration, the wide temperature range system technology shows excellent reliability in harsh environment application.



**Important:** Notice that the wide temperature technology is not supported in every display size, and depends on your order.

To check if your display features wide temperature technology, please refer to the product model. Display featuring wide temperature technology has as “WT” as the last digits of the product model number.

#### Model Name

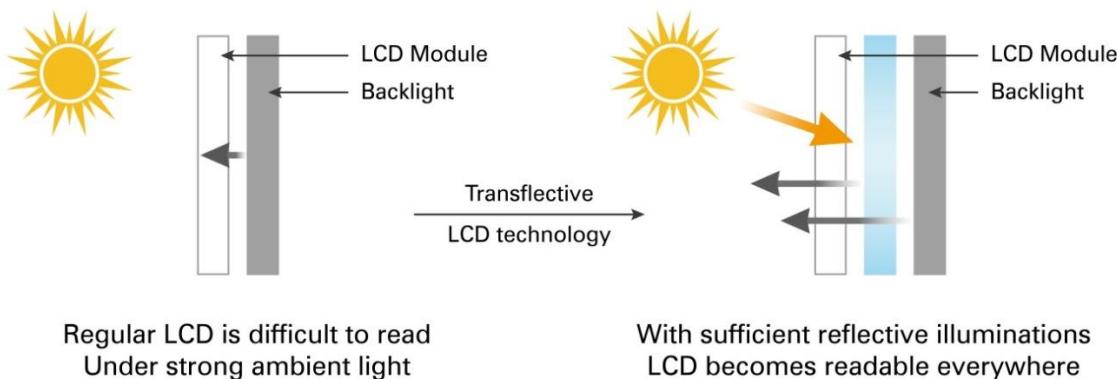
R19LXXX-CHXX WT

Wide Temperature

## 4.2 Transflective Technology

Transflective TFT display features a transparent reflector in front of the backlight. The incoming light is reflected and used to illuminate the TFT display. Transflective LCD modules hold both transmissive and reflective properties, and the method of image display depends upon the conditions of the ambient environment. The display uses a backlight with a transmissive property in dark environments, and external light with a reflective property in bright environments. Our improved transflective method allows for better color performance, which provides excellent color characteristics similar to the transmissive mode. The net reflectance rate of our transflective LCD solution varies from 0.9% to 1.3% based on the panel selected. For example, with 1.3% net reflectance rate and under 10,000 ambient sunlight conditions, the brightness gain is around 130 nits added to original backlight brightness.

Transflective LCD technology function diagram



Transflective LCD offers a most convenient and affordable solution for your various outdoor LCD applications such as video systems, kiosk, point-of-sale (POS), etc.



**Important:** Notice that the transflective technology is not supported in every display size, and depends on your order.

To check if your display features transflective technology, please refer to the product model. Display featuring transflective technology has as “**TR**” as the last digits of the product model number.

R19LXXX-CHXX **TR**

Transflective

## Appendix

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

## Appendix A: Resolution Table

V-VGA, D-DVI, H-HDMI

| Resolution Support Table   |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 |   |   |               |   |   |                 |   |   |                 |   |   |   |  |  |               |  |  |
|----------------------------|---------------|---|---|-------------|---|---|--------------------|---|---|--------------|---|---|---------------------|---|---|-----------------|---|---|---------------|---|---|-----------------|---|---|-----------------|---|---|---|--|--|---------------|--|--|
| Panel Size                 | 5.7"/<br>6.5" |   |   | 7"          |   |   | 8"/ 8.4"/<br>12.1" |   |   | 7"/<br>10.1" |   |   | 10.4"/<br>12.1"/15" |   |   | 10.1"/<br>12.1" |   |   | 17"/19"       |   |   | 15.6"/<br>18.5" |   |   | 20.1"/<br>23.1" |   |   | 15.6"/18.5"/<br>21.5"/23.8"/27"/<br>32"/42" |  |  | 10.1"/ 24"    |  |  |
| Panel Native<br>Resolution | 640x<br>480   |   |   | 800x<br>480 |   |   | 800x<br>600        |   |   | 1024x<br>600 |   |   | 1024x<br>768        |   |   | 1280x<br>800    |   |   | 1280x<br>1024 |   |   | 1366x<br>768    |   |   | 1600x<br>1200   |   |   | 1920x<br>1080                               |  |  | 1920x<br>1200 |  |  |
| support resolution         | V             | D | H | V           | D | H | V                  | D | H | V            | D | H | V                   | D | H | V               | D | H | V             | D | H | V               | D | H | V               | D | H |   |  |  |               |  |  |
| 640*480 (4:3)              | V             | V | V | V           | V | V | V                  | V | V | V            | V | V | V                   | V | V | V               | V | V | V             | V | V | V               | V | V | V               | V | V |   |  |  |               |  |  |
| 480P                       |               | V |   | V           |   | V |                    | V |   | V            |   | V |                     | V |   | V               |   | V |               | V |   | V               |   | V |                 | V |   | V   |  |  |               |  |  |
| 800*480                    |               |   | V | V           | V |   |                    |   |   |              |   |   |                     |   |   |                 |   |   |               |   |   |                 |   |   |                 |   |   |   |  |  |               |  |  |
| 800*600 (4:3)              |               |   |   | V           | V | V | V                  | V | V | V            | V | V | V                   | V | V | V               | V | V | V             | V | V | V               | V | V | V               | V | V |   |  |  |               |  |  |
| 1024*768 (4:3)             |               |   |   |             |   |   |                    |   |   | V            | V | V | V                   | V | V | V               | V | V | V             | V | V | V               | V | V | V               | V | V |   |  |  |               |  |  |
| 1280*720 (16:9) 720P       |               | V |   | V           |   | V |                    | V |   | V            |   | V |                     | V |   | V               |   | V | V             | V | V | V               | V | V | V               | V | V |   |  |  |               |  |  |
| 1280*768                   |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 |   | V | V             | V |   |                 |   |   |                 |   |   |   |  |  |               |  |  |
| 1280*800 (16:10)           |               |   |   |             |   |   |                    |   |   |              | V | V | V                   |   |   |                 |   |   |               |   |   | V               | V | V | V               | V | V | V   |  |  |               |  |  |
| 1280*1024 (5:4)            |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   | V               | V | V |               |   |   | V               | V | V | V               | V | V | V   |  |  |               |  |  |
| 1366*768                   |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 | V | V | V             |   |   |                 |   |   |                 |   |   |   |  |  |               |  |  |
| 1400*1050 (4:3)            |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 |   |   | V             | V | V |                 |   |   |                 |   |   |   |  |  |               |  |  |
| 1440*900 (16:10)           |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 |   |   |               |   | V | V               | V | V | V               | V | V | V   |  |  |               |  |  |
| 1600*1200 (4:3)            |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 |   |   | V             | V | V |                 |   |   |                 |   |   |   |  |  |               |  |  |
| 1680*1050 (16:10)          |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 |   |   |               |   | V | V               | V | V | V               | V | V | V   |  |  |               |  |  |
| 1920*1080 (16:9)1080P      |               | V |   | V           |   | V |                    | V |   | V            |   | V |                     | V |   | V               |   | V |               | V |   | V               | V | V | V               | V | V | V   |  |  |               |  |  |
| 1920*1200 (16:10)          |               |   |   |             |   |   |                    |   |   |              |   |   |                     |   |   |                 |   |   |               |   |   |                 | V | V | V               | V | V | V   |  |  |               |  |  |

## Appendix B: Frequency Table

| Frequency Table      |                    |   |   |   |
|----------------------|--------------------|---|---|---|
|                      | Vertical Frequency | V | D | H |
| 640*480(4:3)         | 60                 | V | V | V |
|                      | 72                 | V |   |   |
|                      | 75                 | V |   |   |
| 480P                 | 60                 | V | V | V |
| 800*480              | 60                 | V | V | V |
| 800*600(4:3)         | 60                 | V | V | V |
|                      | 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 |
| 1280*1024(5:4)       | 60                 | V | V | V |
|                      | 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 |

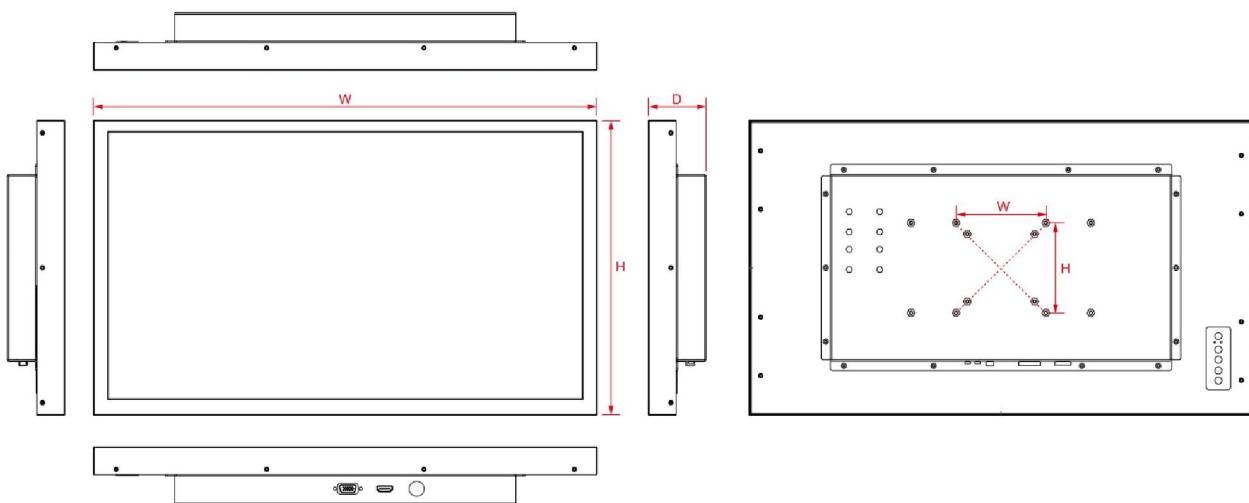
## Appendix C: Product Dimensions

| Model Name     | Dimensions              | VESA                             |
|----------------|-------------------------|----------------------------------|
|                | (W x H x D, mm)         | (W x H, mm)                      |
| R06L200-CHA1   | 200 x 149 x 45 mm       | 75 x 75 mm                       |
| R08L200-CHU1   | 220 x 160 x 45 mm       | 75 x 75 mm                       |
| R08L200-CHU1TR | 220 x 160 x 45 mm       | 75 x 75 mm                       |
| R08T100-CHA1   | 207.4 x 165.4 x 26 mm   | 75 x 75 mm                       |
| R10L100-CHT2   | 259.6 x 196.6 x 45 mm   | 75 x 75 mm                       |
| R10L600-CHP1   | 260 x 200 x 45 mm       | 75 x 75 mm                       |
| R10L600-CHP1TR | 260 x 200 x 45 mm       | 75 x 75 mm                       |
| R10L600-CHP3TR | 260 x 200 x 45 mm       | 75 x 75 mm                       |
| R10T600-CHP3   | 260 x 200 x 45 mm       | 75 x 75 mm                       |
| R12L600-CHM2   | 290 x 230 x 45 mm       | 75 x 75 mm                       |
| R12L600-CHM2TR | 290 x 230 x 45 mm       | 75 x 75 mm                       |
| R12T600-CHL1   | 290 x 230 x 45 mm       | 75 x 75 mm                       |
| R15L100-CHA1   | 370 x 290 x 47 mm       | 75 x 75 mm                       |
| R15L100-CHA1TR | 370 x 290 x 47 mm       | 75 x 75 mm                       |
| R15L100-CHA3   | 369.6 x 289.6 x 47 mm   | 75 x 75 mm                       |
| R15L100-CHA3WT | 349 x 230 x 50 mm       | 75 x 75, 100 x 100 mm            |
| R15L100-CHC3HB | 369.6 x 289.6 x 47 mm   | 75 x 75 mm                       |
| R15L600-CHC3   | 369.6 x 289.6 x 47 mm   | 75 x 75 mm                       |
| R17L500-CHA1HB | 398 x 349 x 51.5 mm     | 75 x 75 mm                       |
| R17L500-CHA1TR | 398 x 349 x 51.5 mm     | 75 x 75 mm                       |
| R17L500-CHA1WT | 381 x 272 x 55 mm       | 75 x 75, 100 x 100 mm            |
| R17L500-CHM1   | 398 x 394 x 51.5 mm     | 75 x 75 mm                       |
| R19L300-CHA1   | 430 x 355 x 40 mm       | 100 x 100, 300 x 100 mm          |
| R19L300-CHA1HB | 430 x 355 x 40 mm       | 100 x 100, 300 x 100 mm          |
| R19L300-CHM1   | 430 x 355 x 40 mm       | 100 x 100, 300 x 100 mm          |
| R19L300-CHM2   | 430 x 355 x 40 mm       | 100 x 100, 300 x 100 mm          |
| R19L300-CHM2TR | 430 x 350 x 50 mm       | 100 x 100, 300 x 100 mm          |
| W07T700-CHA4TR | 220 x 150 x 39.5 mm     | 75 x 75 mm                       |
| W10L100-CHA1   | 250.5 x 168.4 x 39 mm   | 75 x 75 mm                       |
| W10L100-CHH1   | 270 x 160 x 38 mm       | 75 x 75 mm                       |
| W12L100-CHM9   | 310 x 200 x 45 mm       | 75 x 75 mm                       |
| W15L100-CHA2   | 372.3 x 225 x 55 mm     | 75 x 75, 100 x 100 mm            |
| W18L100-CHA3HB | 437.3 x 264.5 x 50 mm   | 75 x 75, 100 x 100 mm            |
| W22L100-CHA3   | 506.5 x 302.5 x 60.5 mm | 75 x 75, 100 x 100 mm            |
| W22L100-CHA3HB | 506.5 x 302.5 x 60.5 mm | 75 x 75, 100 x 100 mm            |
| W22L100-CHM1   | 498.9 x 325.3 x 53 mm   | 75 x 75, 100 x 100 mm            |
| W24L100-CHA2   | 560 x 328 x 64 mm       | 75 x 75, 100 x 100, 200 x 100 mm |
| W24L100-CHA2HB | 560 x 328 x 64 mm       | 75 x 75, 100 x 100, 200 x 100 mm |
| W24L100-CHA2TR | 560 x 328 x 64 mm       | 75 x 75, 100 x 100, 200 x 100 mm |
| W24L100-CHS1   | 564 x 370 x 59 mm       | 75 x 75, 100 x 100, 200 x 100 mm |
| W27L100-CHA1   | 660 x 397 x 63 mm       | 75 x 75, 100 x 100, 200 x 100 mm |
| W28L100-CHA2   | 736.5 x 234.4 x 70 mm   | 200 x 100 mm                     |
| W32L300-CHA3   | 790 x 470 x 70 mm       | W: 200, 400; H: 100, 200 mm      |

| Model Name     | Dimensions            | VESA                        |
|----------------|-----------------------|-----------------------------|
|                | (W x H x D, mm)       | (W x H, mm)                 |
| W32L300-CHA3HB | 790 x 470 x 70 mm     | W: 200, 400; H: 100, 200 mm |
| W32L300-CHA3TR | 790 x 470 x 70 mm     | W: 200, 400; H: 100, 200 mm |
| W38L100-CHA1   | 928.3 x 282.1 x 69 mm | 200 x 200, 400 x 200 mm     |

## Product Mechanical Drawing

Unit: W x H x D, mm



# Notes

# Notes



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