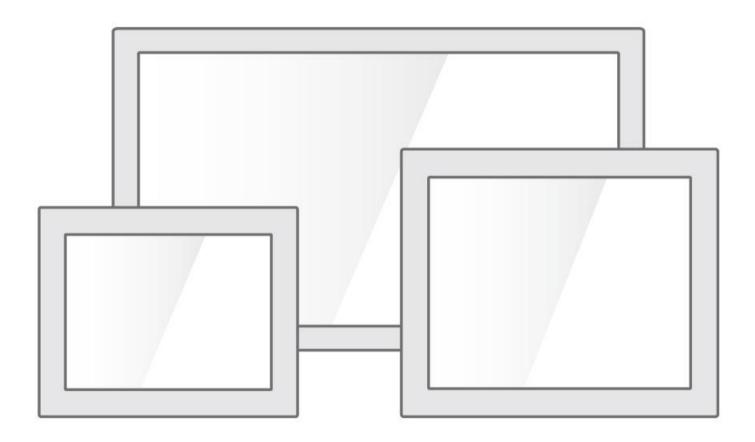


Full IP65 Stainless Resistive Chassis Display 8.4~55"



Quick Start Guide

Version 1.0

Document Part Number: 91521110116C

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Preface

Copyright Notice

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Warrantv

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.

Advisory Conventions

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



Note:

A note is used to emphasize helpful information



Important:

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



Caution/ Attention

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

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



Warning!/ Avertissement!

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

Un Avertissement de Choc Électriqueindique le potentiel de chocssur des emplacements électriques et comment éviterces problèmes.



Alternating Current / Mise à la Terre The Protective Conductor Terminal (Earth Ground) symbol indicates the potential risk of serious electrical shock due to improper grounding.

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

Safety Information

Warning!/ Avertissement!



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

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

Caution/ Attention



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

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

Safety Precautions

For your safety carefully read all the safety instructions before using the device. Keep this Quick Start Guide for future reference.

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



Caution/ Attention

Do not cover the openings!

- Before connecting the equipment to the power outlet make sure the voltage of the power source is correct.
- Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.
- Never pour any liquid into an opening. This could cause fire or electrical shock.
- Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
- All cautions and warnings on the equipment should be noted.



Caution/ Attention

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

About This Quick Start Guide

This Quick Start Guide provides information about using the Winmate® Full IP65 Stainless Resistive Chassis Display. The documentation set provides information for specific user needs, and includes:

Full IP65 Stainless Resistive Chassis Display Quick Start Guide - 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.

Models

Screen Size	Model Name
8.4"	R08T200-65U1
10.4"	R10L100-65T2
15"	R15L600-65C3
17"	R17L500-65M1
19"	R19L300-65M1
21.5"	W22L100-65A3
23.8"	W24L100-65A2
32"	W32L300-65A3
42"	W42L300-65A3
42.5"	W43L300-65A1
55"	W55L100-65T1

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® Full IP65 Stainless Resistive Chassis Display. Winmate multipurpose and waterproof fully sealed IP65 display is protected against outer dust and water splash, and ideal for use in harsh environments such as food processing and packaging automation, food processing and packaging automation.

1.2 Product Features

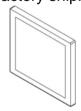
Full IP65 Stainless Resistive Chassis Display features:

- 8.4-55" TFT LCD
- VGA video input, DVI and HDMI input for optional
- RS-232 or USB for touch
- Full IP65 water and dust proof
- SUS 316 stainless steel enclosure
- Supports VESA mount
- Suitable for food and pharmaceutical industry

1.3 Package Contents

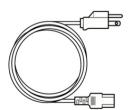
Carefully remove the box and unpack your display. Please check if all the items listed below are inside your package. If any of these items are missing or damaged contact us immediately.

Standard factory shipment list:



Display

Varies by product



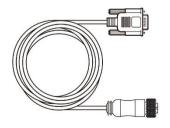
Power Cord

Varies by country



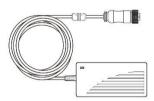
Quick Start Guide (Hardcopy)

P/N: 91521110103R



VGA Cable

P/N: 9441150120Q0



AC Adapter

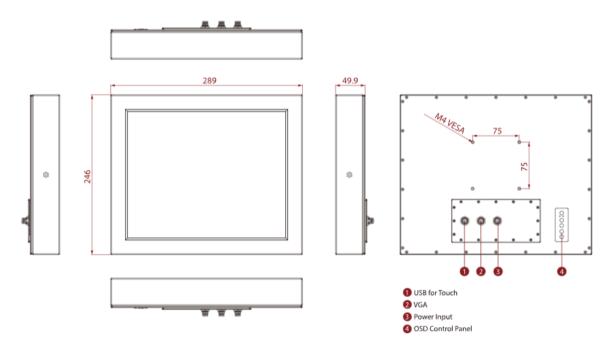
50W: 90PO12050006 84W: 90PO12084000

1.4 Product Overview

This section describes physical appearance of the Full IP65 Stainless Resistive Chassis Display.

Notice that input and output connectors vary by product size and specifications. The picture above shows only a prototype model for information purposes only.

Model:R10L100-65T2



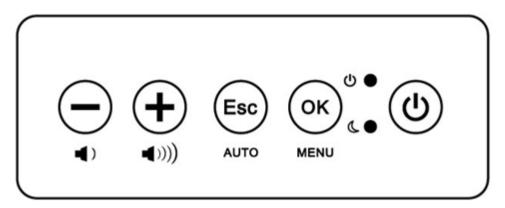
Nº	Description		
1	USB for Touch		
2	VGA		
3	Power Input		
4	OSD Control Panel		

Refer to the table below for a unit dimensions.

Model Name	Dimensions (W x H x D, mm)	VESA (W x H, mm)	VESA Screw Thread
R08T200-65U1	250 x 200 x 50	75 x 75	M4, L=5
R10L100-65T2	289 x 246 x 49.9	75 x 75	M4, L=5
R15L600-65C3	383 x 310 x 56.4	100 x 100	M4, L=5
R17L500-65M1	416 x 350 x 61.3	100 x 100	M4, L=5
R19L300-65M1	460 x 385 x 63	100 x 100	M4, L=5
W22L100-65A3	550 x 340 x 58.6	100 x 200	M4, L=5
W24L100-65A2	600 x 380 x 60.9	100 x 200	M6, L=6
W32L300-65A3	785 x 475 x 77.4	100 x 100, 100 x 200, 100 x 400	M6, L=6
W42L300-65A3	1046 x 633 x 64.6	200 x 200, 200 x 600	M8, L=6
W43L100-65A1	1046 x 633 x 64.6	200 x 200, 200 x 600	M6, L=6
W55L100-65T1	1302.5 x 769 x 54	300 x 300, 300 x 600	M6, L=8

1.5 Physical Buttons and LED Indicators

Physical buttons and LED indicators located on the rear side of the Display.



Physical Buttons

lcon	Button	Description
(DOWN/ VOLUME DOWN	Press to decrease the volume or volume down when without OSD menu.
+	UP/ VOLUME UP	Press to increase the value or volume up when without OSD menu.
Esc	ESC/ AUTO	Press to exit the menu or auto adjustment when without OSD menu.
OK) MENU	OK/ MENU	Press to confirm the action or to call main OSD menu.
(h)	Power On/ Off	Press to power on or power off the device.

LED Indicators

LED Type	Status	Description	
Ф	On	Power is on	
	Off	Power is off	
1	On	System is in standby mode	
	Off	System is idle	

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.

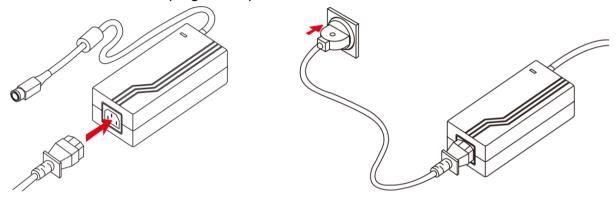
Be careful when handling the unit. When the unit is plugged in, the internal components generate a lot of heat which may leave the outer casing too hot to touch.

2.2 Connecting Power

This section provides information on how to use connectors on the 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 adapter.
- 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.



2.3 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.



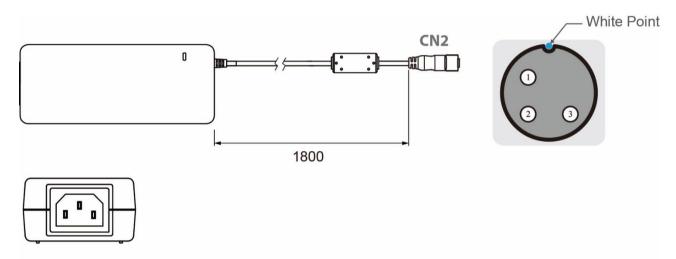
Note:

Notice that standard input terminals include VGA. Your device may be equipped with USB for touch, DVI input or HDMI input based on your order.

2.3.1 Power Cable

The Full IP65 Stainless Resistive Chassis Display has M12 type connectors. Use power cable to connect display to the source of power.

The display support 12V DC power input.



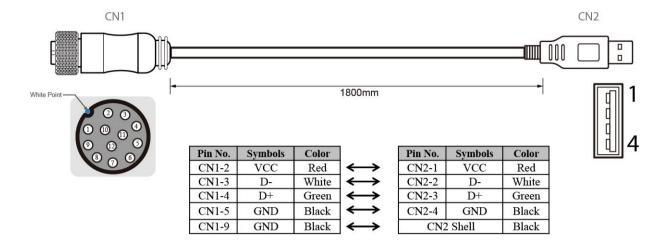
Pin No.	Symbols	Color
CN1-1	VIN -	NO ASSIGN
CN1-2	VIN -	NO ASSIGN
CN1-3	VIN -	NO ASSIGN



Pin No.	Symbols	Color
CN2-1	VCC+	Flow Adapter
CN2-2	GND	Flow Adapter
CN2-3	VCC -	Flow Adapter

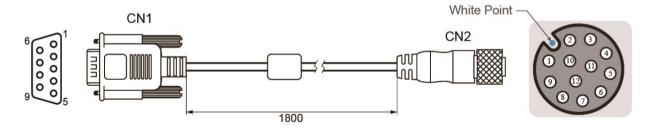
2.3.2 USB Cable for Touch

The display may have optional M12 type USB connector for touch based on your order. Use USB cable to connect touch.



2.3.3 RS-232 Cable for Touch

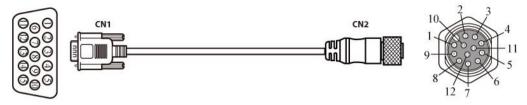
The display may have optional M12 type serial port connector based on your order. Use serial cable to connect touch.



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	DCD-CON2	Green	\longleftrightarrow	CN2-1	DCD-CON2	Green
CN1-6	DSR-CON2	Brown	\longleftrightarrow	CN2-2	DSR-CON2	Brown
CN1-2	RXD-CON2	Red	\longleftrightarrow	CN2-3	RXD-CON2	Red
CN1-7	RTS-CON2	Orange	\longleftrightarrow	CN2-4	RTS-CON2	Orange
CN1-3	TXD-CON2	Blue	\longleftrightarrow	CN2-5	TXD-CON2	Blue
CN1-8	CTS-CON2	White	\longleftrightarrow	CN2-6	CTS-CON2	White
CN1-4	DTR-CON2	Purple	\longleftrightarrow	CN2-7	DTR-CON2	Purple
CN1-9	RI-CON2	Yellow	\longleftrightarrow	CN2-8	RI-CON2	Yellow
CN1-5	GND-CON2	Black	\longleftrightarrow	CN2-9	GND-CON2	Black

2.3.4 VGA Cable

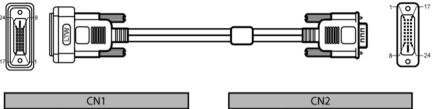
The display has M12 type VGA connector. Use VGA cable to connect the display to other external devices.



Pin No.	Symbols	Color		Pin No.	Symbols	Color	
CN1-1	R	Red	\longleftrightarrow	CN2-1	R	Red	L coavial
CN1-6	R-GND	Black	\longleftrightarrow	CN2-2	R-GND	Black	coaxial
CN1-2	G	Green	\longleftrightarrow	CN2-3	G	Green	L coavial
CN1-7	G-GND	Black	\longleftrightarrow	CN2-4	G-GND	Black	coaxial
CN1-3	В	Blue	\longleftrightarrow	CN2-5	В	Blue	coaxial
CN1-8	B-GND	Black	\longleftrightarrow	CN2-6	B-GND	Black	Coaxiai
CN1-12	SDA	Yellow	\longleftrightarrow	CN2-7	SDA	Yellow	
CN1-13	HS	Orange	\longleftrightarrow	CN2-8	HS	Orange	
CN1-14	VS	White	\longleftrightarrow	CN2-9	VS	White	
CN1-15	SCL	Brown	\longleftrightarrow	CN2-10	SCL	Brown	

2.3.5 DVI Cable

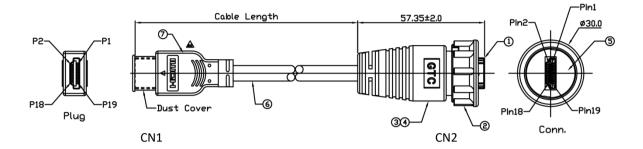
The display may have optional DVI connector based on your order. Use DVI cable to connect the display to other external device.



	CN1]	CN2		
Pin No.	Symbol	\longrightarrow	Pin No.	Symbol	٦
CN1-1	TMDS Data2-	\longrightarrow	CN2-1	TMDS Data2-	CWISC
CN1-2	TMDS Data2+	$ \longleftrightarrow $	CN2-2	TMDS Data2+	7
CN1-3	TMDS Data2 Shield	\longrightarrow	CN2-3	TMDS Data2 Shield	
CN1-4	NC]	CN2-4	NC	
CN1-5	NC]	CN2-5	NC	
CN1-6	DDC Clock	$] \longleftrightarrow $	CN2-6	DDC Clock	
CN1-7	DDC Data	$ \longleftrightarrow $	CN2-7	DDC Data	
CN1-8	NC]	CN2-8	NC	
CN1-9	TMDS Data 1-]	CN2-9	TMDS Data 1-	٦
CN1-10	TMDS Data 1+	\longrightarrow	CN2-10	TMDS Data 1+	CWISC
CN1-11	TMDS Data 1 Shield	\longrightarrow	CN2-11	TMDS Data 1 Shield	7
CN1-12	NC]	CN2-12	NC	
CN1-13	NC]	CN2-13	NC	
CN1-14	+5V Power	$] \longleftrightarrow [$	CN2-14	+5V Power	
CN1-15	Ground	$] \longleftrightarrow $	CN2-15	Ground	
CN1-16	Hot Plug Detect]	CN2-16	Hot Plug Detect	
CN1-17	TMDS Data 0-]	CN2-17	TMDS Data 0-	٦
CN1-18	TMDS Data 0+	\longrightarrow	CN2-18	TMDS Data 0+	CWIS
CN1-19	TMDS Data 0 Shield]←→	CN2-19	TMDS Data 0 Shield]
CN1-20	NC]	CN2-20	NC	
CN1-21	NC	1	CN2-21	NC	
CN1-22	TMDS Data Clock Shield	←→	CN2-22	TMDS Data Clock Shield	٦
CN1-23	TMDS Clock+	$ \longleftrightarrow $	CN2-23	TMDS Clock+	CWISC
CN1-24	TMDS Clock-	←→	CN2-24	TMDS Clock-	٦_

2.3.6 HDMI Cable

The display may have optional HDMI connector based on your order. Use HDMI cable to connect the display to other external device.



	CN1			CN2
Pin No.	Symbol	1	Pin No.	Symbol
CN1-1	TMDS Data2+	\longleftrightarrow	CN2-1	TMDS Data2+
CN1-2	Data2 Shield	\longleftrightarrow	CN2-2	Data2 Shield
CN1-3	TMDS Data2-	\longleftrightarrow	CN2-3	TMDS Data2-
CN1-4	TMDS Data1+	\longleftrightarrow	CN2-4	TMDS Data1+
CN1-5	TMDS Data1 Shield	\rightarrow	CN2-5	TMDS Data1 Shield
CN1-6	TMDS Data1-	\rightarrow	CN2-6	TMDS Data1–
CN1-7	TMDS Data0+	\longleftrightarrow	CN2-7	TMDS Data0+
CN1-8	TMDS Data0 Shield	\longleftrightarrow	CN2-8	TMDS Data0 Shield
CN1-9	TMDS Data0–	\longleftrightarrow	CN2-9	TMDS Data0-
CN1-10	TMDS Clock+	\longleftrightarrow	CN2-10	TMDS Clock+
CN1-11	TMDS Clock Shield	\longleftrightarrow	CN2-11	TMDS Clock Shield
CN1-12	TMDS Clock-	\longleftrightarrow	CN2-12	TMDS Clock-
CN1-13	CEC	\longleftrightarrow	CN2-13	CEC
CN1-14	Reserved (N.C. on device)	\longleftrightarrow	CN2-14	Reserved (N.C. on device)
CN1-15	SCL(I ² C serial clock for DDC)	\longrightarrow	CN2-15	SCL(I ² C serial clock for DDC
CN1-16	SDA(I ² C serial data for DDC)	\longrightarrow	CN2-16	SDA(I ² C serial data for DDC
CN1-17	DDC/CEC Ground	\longleftrightarrow	CN2-17	DDC/CEC Ground
CN1-18	+5 V Power	\longleftrightarrow	CN2-18	+5 V Power
CN1-19	Hot Plug Detect	\longleftrightarrow	CN2-19	Hot Plug Detect

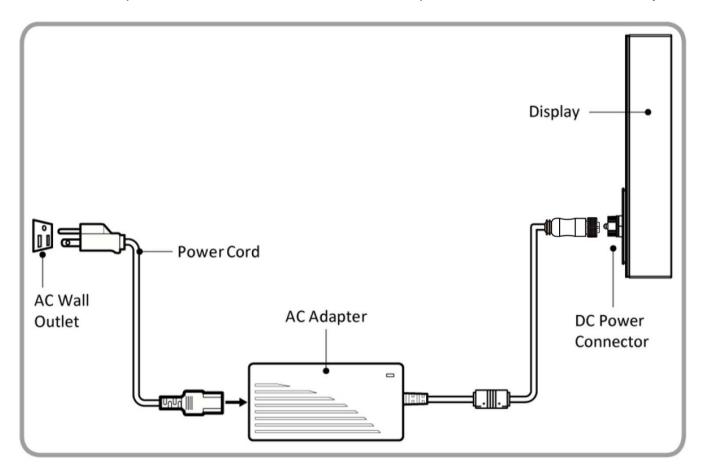
Chapter 3: Operating the Device

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

3.1 Turning On and Off the Device

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.



To shut down your device, do the following disconnect the power cord and the device will automatically turn off.

3.2 OSD Menu Navigation

OSD Icon	Sub-menu	Settings	Note
	BRIGHTNESS	slider bar	Default 50
BRICONTRAST	Use to adjust the screen's bright	tness. Range 0 to 100	
	CONTRAST	slider bar	Default 50
	Use to adjust the screen's contra	ast. Range 0 to 100	
POSITION	H POSITION	slider bar	Default 50
	Use to adjust the image to the le	eft or right on the screen. Range	e 0 to 100
		slider bar	Default 50
	Use to adjust the image up or do	own on the screen. Range 0 to	100
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 horizon	ontal image.	
	PHASE	slider bar	
	Use to adjust the phase control	(May be required to optimize th	e display quality)
	WHITE BALANCE	Select and execute	
	Use to set RGB signal voltage le	evel	
	USER	R.G.B slider bar	
	Choose RED/GREEN/BLUE to	set value of color temperature b	orightness.
	9300K	Select and execute	
⊙	Use to set value of monitor for the	ne CIE coordinate 9300 color te	emperature
COLOR	6500K	Select and execute	
002011	Use to set value of monitor for the	ne CIE coordinate 6500 color te	emperature
	ADC RIGHTNESS	slider bar	Default 50
	Set value of monitor for ADC Bri	ightness. Range 0 to 100	
	GAMMA 0	Select and execute	Default GAMMA0
	Choose the parameter of GAMMA 0 as default setting.		
XII	GAMMA 1	Select and execute	
GAMMA	Choose the parameter of GAMN	MA 1 as default setting.	
	GAMMA 2	Select and execute	
	Choose the parameter of GAMN	MA 2 as default setting	
	·	Select and execute	Default mode
	Auto detect the input source		Dordan mode
@:/ <u>(</u>)		Select and execute	
CHANNEL	Switch the setting of signal input		
		Select and execute	
	Switch the setting of signal input		
RECALL	YES	Select and execute	
	Recall the factory default setting		
	NO	Select and execute	
	Return to main menu		
EXIT EXIT	YES	Select and execute	

3.3 Troubleshooting Guide

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

Condition	Check Point
The picture does not appear	 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: Cleaning the Monitor

Before cleaning:

- Make sure the device is turned off.
- Disconnect the power cable from any AC outlet.

When cleaning:

- Use water up to 80°C to clean the housing.
- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- The display area is highly prone to scratching. Does not use ketene type material (for example Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clear the panel. It may permanently damage the panel and void the warranty.
- If it is still not clean enough, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
- Don not use oil directly on the display screen. If droplets are allowed to drop on the screen, permanent staining or discoloration may occur.

Appendix B: Winmate Software Development Kit

Winmate provides the following Utilities for Full IP65 Stainless Resistive Chassis Display.

Item	File Type	Description
1	Utility	Touch Driver

To find the files, please check out Winmate Download Center Website.

Winmate Download Center

Go to http://www.winmate.com.tw/ > Support > Download Center > Stainless Series > IP65 Resistive Chassis Display

Notes

Notes



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