# ACD-110D

10.1" WXGA Multi-touch Display On-screen Display Settings Aluminum Front Bezel Projected Capacitive Multi-Touch Screen

> ACD-110D Manual 3<sup>rd</sup> Ed Aug 02, 2018

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## Packing List

The LCD monitor should be packaged with the following items. Please check that all of them are included and in good condition.

- 1 ACD-110D
- Utility CD-ROM Contains User's Manual (in PDF format), Drivers and Utilities
- 1 VGA Cable
- 1 Touchscreen Mini USB Cable
- 1 AC/DC 12V Power Adapter with Lock

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

## Safety & Warranty

Please read the following safety instructions carefully. It is advised that you keep this manual for future references

- 1. Disconnect this device from any AC supply before cleaning.
- 2. While cleaning, use a damp cloth instead of liquid or spray detergents.
- 3. For any pluggable equipment, the power outlet must be installed near the device and easily accessible.
- 4. Keep this device away from humidity.
- 5. Place this device on a solid surface during installation. Dropping it or letting it fall could cause damage.
- The openings on the device's enclosure are for dissipating heat. DO NOT COVER THE OPENINGS.
- 7. Make sure the voltage of the power source is correct before connecting the device to the power outlet.
- Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 9. All cautions and warnings on the device should be noted.
- 10. If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
- 11. Never pour any liquid into the openings. This could cause fire or electric shock.
- 12. If any of the following situations arises, please the contact our service personnel:

- i. Damaged power cord or plug
- ii. Liquid intrusion to the device
- iii. Exposure to moisture
- iv. Device is not working as expected or in a manner as described in this manual
- v. The device is dropped or damaged
- vi. Any obvious signs of damage displayed on the device

#### 13. DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -10° C (14°F) OR ABOVE 60° C (140° F) TO PREVENT DAMAGE.

14. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded devices.

## FCC



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Caution:

It may cause the danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer.

#### China RoHS Requirements 产品中有毒有害物质或元素名称及含量

#### **AAEON Display**

			成元素			
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)
印刷电路板	~	0	0	0	0	0
及其电子组件	×	0	0	0	0	0
外部信号	X	0	0		0	0
连接器及线材	×	0	0	0	0	0
外壳	×	0	0	0	0	0
液晶模块	×	0	0	0	0	0
触控模块	×	0	0	0	0	0
电源	×	0	0	0	0	0

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。

备注:

-、此产品所标示之环保使用期限,系指在一般正常使用状况下。

二、上述部件物质触控模块为选购品。

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LCD Display

# Chapter

# General Information

Chapter 1 General Information 1-1

#### 1.1 Introduction

Thank you for purchasing the ACD-110D Industry Display Panel TFT LCD monitor.

The LCD monitor has been designed to provide the best performance for many applications. Its compact and slim profile is well suited in working locations where space is at a premium.

Complying with the power management regulations of VESA DPMS, the LCD monitor is extremely energy efficient and power saving while displaying sharper, more brilliant, crisper and flicker-free images. Other features include low radiation and near zero electromagnetic fields emissions.

Fully compatible with a PC, the LCD monitor supports DDC1/DDC2B-compliant "Plug & Play" specification, making installation a breeze.

The On-screen Display menu provides user a user-friendly interface to make right adjustment for most optimal display.

#### 1.2 Features

- 10.1" WXGA (1280 x 800) TFT LCD Display
- IP65 Aluminum Front Bezel
- P-CAP Multi-Touch Screen
- VESA 75, Panel Mount and Stand Support

#### LCD Display

#### **1.3 General Specification**

•	Type Size	Color TFT, LED backlight 10.1" TFT LCD			
•	Construction	IP65 aluminum front bezel and SGCC			
		chassis			
•	Mounting	VESA 75/ Panel Mount/ Stand			
•	Input signal	VGA, DVI-D			
•	Control	OSD (On Screen Display) on the panel			
•	Power Supply	External power adapter			
•	Dimension	10.47" (W) x 7.22"(H) x 1.57"(D)			
		(265.9mm x 183.4mm x 40mm)			
•	Gross Weight	4.4 lb (2.6 Kg)			
•	Net Weight	2.64 lb (1.4 Kg)			
•	Power Input	12V DC			
•	Brightness	300 cd/m2			
•	<b>Contrast Ratio</b>	600:1			
•	Viewing Angle	170°(H)/ 170°(V)			
•	Resolution	1280 x 800			
•	Color	262k colors			

#### Touchscreen

- **Type** Projected Capacitive multi-touch
- **Resolution** 2048 x 2048
- Light >88%

#### LCD Display

#### A C D - 1 1 0 D

#### Transmission

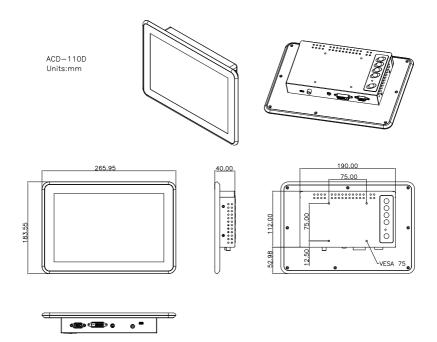
• Controller USB interface

#### Environmental

•	Operating	32°F~ 113°F (0°C to 45°C) without airflow
	temperature	32°F~ 122°F (0°C to 50°C) with airflow
•	Storage	14°F~ 140°F (-10°C to 60°C)
	Temperature	
•	Storage	5~90% @ 40°C, non-condensing
	Humidity	
•	Vibration	1g rms/5-500Hz/random operation

- Shock 15 G peak acceleration (11 msec. duration)
- EMC CE/FCC Class A

## 1.4 Dimensions



#### Chapter 1 General Information 1-6

LCD Display

# Chapter

# Hardware Installation

Chapter 2 Hardware Installation 2-1

#### 2.1 Before Unpacking

It is very important to place the LCD Display in a suitable

environment.

- The surface for placing the LCD Display should be stable and leveled.
- Make sure the place has a good airflow and out of direct sunlight; away from excessive dust, dirt, heat, water, moisture or vibrations.

#### LCD Display

#### 2.2 Connecting to Power Supply

To power the LCD Display, connect the provided AC-DC adapter and power cord to the power input socket of the monitor. Tighten the connector to secure the connection.



#### 2.3 Connecting to the Computer

Turn off the computer and the LCD Display before connecting.

- Use the Monitor-to-PC VGA 
  VI-D cable to connect the LCD Display to your computer. The connectors are the same at both ends.
- Tighten the screws on the connector to secure the connection.



#### 2.4 VGA Port Connector



Pin	Signal	Pin	Signal
1	Red	2	Green
3	Blue	4	N.C.
5	GND	6	GND
7	GND	8	GND
9	N.C.	10	GND
11	N.C.	12	SDA
13	HSYNC	14	VSYNC
15	SCL		

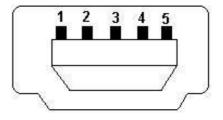
#### 2.5 DVI Port Connector

\*DVI cable not included.

1	2	3	4	5	6	7	8	
							16	
17	18	19	20	21	22	23	24	

Pin	Signal	Pin	Signal
1	N.C.	2	TMDS Data 2+
3	TMDS Data 2/4 shield	4	TMDS Data 4-
5	TMDS Data 4+	6	DDC clock
7	DDC data	8	N.C.
9	TMDS Data 1-	10	TMDS Data 1
11	TMDS Data 1/3 shield	12	TMDS Data 3-
13	TMDS Data 3+	14	+5V
15	Ground	16	Hot plug detect
17	TMDS data 0-	18	TMDS data 0+
19	TMDS data 0/5 shield	20	TMDS data 5-
21	TMDS data 5+	22	TMDS clock shield
23	TMDS clock+	24	TMDS clock-
C1	N.C.	C2	N.C.
C3	N.C.	C4	N.C.
C5	N.C.		

#### 2.6 Touchscreen Mini USB Connector



Pin	Signal	Pin	Signal
1	+5V	2	DATA (-)
3	DATA (+)	4	N.C.
5	GND, Ground		

#### 2.7 VESA Wall Mount

Mounting the LCD Display with UL Listed wall mount Brackets only.

The LCD Display can be mounted on a monitor arm or wall mount

plate.

Caution:

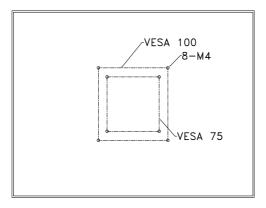
When mounting the LCD Display, make sure to tighten the retention screws or bolts accordingly till they are fully secured. Overtightening may cause them to become stripped, rendering them useless.

#### Monitor Arm or Wall mount Plate Installation

The LCD Display has Video Electronics Standards Association

(VESA) standard mounting holes tapped into the rear panel. The

holes are M4-sized and are set 75mm x 75mm apart.



#### **VESA Mounting Holes**

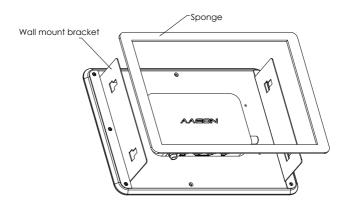
To mount the LCD Display onto a monitor arm or wall mount plate, please follow the steps below.

- Step 1: Line up the threaded holes on the monitor rear panel with the screw holes on the monitor arm or wall mount plate.
- Step 2: Secure the monitor to the arm or stand with the retention screws supplied with the monitor arm or stand.

LCD Display

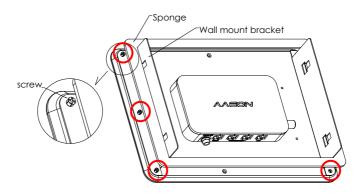
#### 2.8 Mounting the Display

**<u>Step 1</u>**: Get the wallmount bracket and sponge ready.

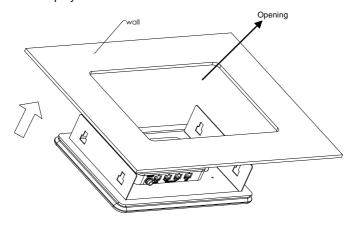


**<u>Step 2</u>**: Remove the six screws (three on each side) at the back and place the wallmount brackets onto the display. Secure the brackets with the original six screws.

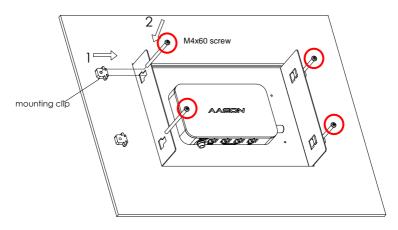
Step 3: Place the sponge onto the brackets



**<u>Step 4</u>**: Insert the display to the surface (opening) where you are going to mount the display



<u>Step 5</u>: Attach the mounting clips to the four fillisters on the wallmount brackets and tighten the four M4x60 screws to secure the brackets



LCD Display



# On-screen Display Settings

Chapter 3 On Screen Display Control 3-1

### 3.1 On-screen Display (OSD) Board

Buttons	-	Function
		Automatically adjust the clock,
Auto		phase, H-position and V-position.
Auto	۶	Enable fullscreen for the most
		optimal settings
		Opens the OSD menu.
Menu / Enter	۶	Enters/confirms the selected
		options.
		Move the selector to the next option.
UP / Right / Increase / >		Increase the gauge value of the
Input select		selected option.
	$\triangleright$	Change input source.
		Move the selector to the previous
Down/ Left / Decrease		option.
Down/ Left / Decrease	۶	Decrease the gauge value of the
		selected option.
Power	$\checkmark$	Turn the monitor ON or OFF.

#### 3.2 OSD Main Menu



->	or	AUTO	Select to confirm
**	or	MENU	Return to last menu
	or	Δ	Increase value of selected option
□)	or	$\bigtriangledown$	Decrease value of selected option
50			Power On/Off

#### 3.3 Input Source



-×-	or	AUTO	Select to confirm
**	or	MENU	Return to last menu
	or	Δ	Increase value of selected option
□)	or	$\bigtriangledown$	Decrease value of selected option
5			Power On/Off

#### 3.4 Contrast/ Brightness- Submenu



-×-	or	AUTO	Select to confirm
×	or	MENU	Return to last menu
⊲))	or	Δ	Increase value of selected option
□)	or	$\bigtriangledown$	Decrease value of selected option
5			Power On/Off

#### 3.5 Geometry Menu



Available Key Functions

*	or	AUTO	Select to confirm
*	or	MENU	Return to last menu
	or	Δ	Increase value of selected option
口)	or	$\bigtriangledown$	Decrease value of selected option
d 2			Power On/Off

Chapter 3 Onscreen Display Settings 3-6

### 3.6 Color Temperature- Submenu

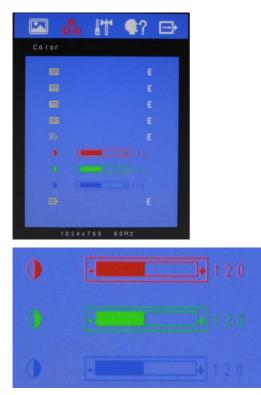
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1024×788 00Hz			
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1024x768 80Hz 5000 5 5000 5 5000 5	0	2	
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1000 10			
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500 ÷£ 500 ÷£	9000		Æ
500 E	6500		
5800	5000		£
	SRGB		£

Available Key Functions

-×	or	AUTO	Select to confirm
**	or	MENU	Return to last menu
⊲))	or	Δ	Increase value of selected option
□)	or	$\bigtriangledown$	Decrease value of selected option
50			Power On/Off

Chapter 3 Onscreen Display Settings 3-7

#### 3.7 RGB Color- Submenu



Available Key Functions

-×-	or	AUTO	Select to confirm
**	or	MENU	Return to last menu
⊲))	or	Δ	Increase value of selected option
□)	or	$\bigtriangledown$	Decrease value of selected option
50			Power On/Off

Chapter 3 Onscreen Display Settings 3-8

#### 3.8 Language- Submenu



Available Key Functions

-×-	or	AUTO	Select to confirm
**	or	MENU	Return to last menu
⊲))	or	Δ	Increase value of selected option
□)	or	$\bigtriangledown$	Decrease value of selected option
50			Power On/Off

#### 3.9 Auto Config- Submenu





-×	or	AUTO	Select to confirm
米	or	MENU	Return to last menu
⊲))	or	Δ	Increase value of selected option
□)	or	$\bigtriangledown$	Decrease value of selected option
50			Power On/Off

#### 3.10 Resolution- Submenu



Available Key Functions

-×	or	AUTO	Select to confirm
茶	or	MENU	Return to last menu
	or	Δ	Increase value of selected option
⊴)	or	$\bigtriangledown$	Decrease value of selected option
5			Power On/Off

#### 3.11 Exit Menu- Submenu



-×	or	AUTO	Select to confirm
*	or	MENU	Return to last menu
	or	Δ	Increase value of selected option
口)	or	$\bigtriangledown$	Decrease value of selected option
5			Power On/Off

LCD Display

# Chapter

# Touchscreen Driver Installation

Chapter 4 Touchscreen Driver Installation 4-1

#### 4.1 Introduction

The ACD-110D Series touch screen uses Projected Capacitive Multi-Touch technology to provide more accurate sensing capacity than other technologies. The touch screen is specially designed for any infotainment application and has been approved for FCC Class A standards.

#### 4.2 Installation

Insert the CD-ROM into your disk drive to install the necessary drivers.

Step 1- Install Touch Panel Driver

- 1. Open the **STEP6-TOUCH** folder followed by the **XP** folder
- 2. Open *ModifyDBArea.exe*

The system will help you install the driver automatically

<u>Note 1</u>: Drivers are not required for Windows<sup>®</sup> 7 and Linux Ubuntu 14.04

Note 2: Only single touch is supported for Windows® XP