System Manual

Model Name:
AM-1017

Document Version: I

Customer	**Date**
Checked & Approved by	

FEC Prepared by	**Date**
FEC Approved by	

System Manual

Aer Monitor

User's Manual

Version-0.2

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Record of Revision

Date	Specs Ver.	Description	Note
2013.10.17	V0.1	Initial	Julie
2013.11.21	V0.2		Julie

Safety and Warranty

1. Read these safety instructions carefully.

2. Keep this user's manual for later reference.

3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.

4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.

5. Keep this equipment away from humidity.

6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.

7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.

8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.

9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.

10. All cautions and warnings on the equipment should be noted.

11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.

12. Never pour any liquid into an opening. This could cause fire or electrical shock.

13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.

14. If any of the following situations arises, get the equipment checked by service personnel:
a. The power cord or plug is damaged.
b. Liquid has penetrated into the equipment.
c. The equipment has been exposed to moisture.
d. The equipment does not work well, or you cannot get it to work according to the user’s manual.
e. The equipment has been dropped and damaged.
f. The equipment has obvious signs of breakage.

15. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20° C (-4°F) OR ABOVE 60° C (140° F). IT MAY DAMAGE THE EQUIPMENT.

Table of Content

Chapter 1 1

Introduction 1

AerMonitor (AM-1017) Introduction 1

A Quick Tour for AM-1017 3

AM-1017 Dimension 5

Rear I/O Panel Connectivity 7

Aer Monitor AM-1017 Packing List 7

Chapter 2 8

MSR / Finger Print Reader/ RFID / i-Button Installation 8

15" 2nd Pole Type VFD / LCM Installation 9

Note : They should connect to the system. 9

17" 1st Touch Display Installation & Swapping 10

OSD Function and Adjustment 11

Chapter 3 12

Software Installation and Setup 12

FEC P-Capacitive/ Resistive Touch Utility (EETI Controller) 12

EETI TouchKit Tools Installation 13

TouchKit Control Panel for P-Capacitive/ Resistive Touch 16

Chapter 4 17

Specifications 17

AM-1017 Specifications 17

Chapter 5 18

Troubleshooting 19

Touch Panel Does Not Work 19

OSD Panel Cannot Work Precisely 19

Chapter 1

Introduction

AerMonitor (AM-1017) Introduction

AerMonitor is a 17 inch bezel free monitor which is slim, compact, and yet tough enough for any environment. With easy accessed on screen display controls, users can adjust brightness and display is a compatible component and can be easily removed and installed on the FEC AerPOS Terminal Series.

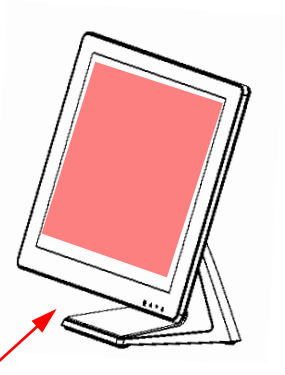
Main Features:

- Reliable Tempered Glass on Projective Capacity Touch ; Bezel Free Design
- The high quality of resistive touch or durable tempered glass of projective capacitive touch both are IP65 front panel compliant.
- Space Efficiency and compact Size - Fits for any kinds of POS applications
- Various peripheral devices support.
- Integrated VFD/LCM customer display and the 2nd 15” LCD pole display.

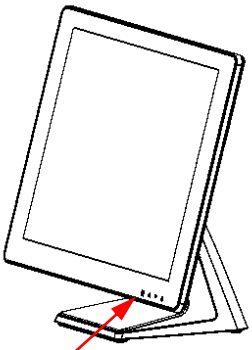
AM-1017

A Quick Tour for AM-1017

17” Touch Display



Display OSD



Display OSD

Power Switch / Status
Blue LED: Power ON
Red LED: Power Off / Standby

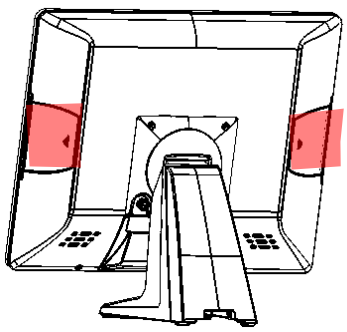
Menu item up select, item value increase and auto tune

Menu item down select and item value decrease

Display OSD menu and enter Next page

Note: All buttons are invisible till one touch of any. After 5 seconds, the lights will back to invisible without further touch.

MSR
Finger Print Receiver
RFID
i-Button



AM-1017 Dimension

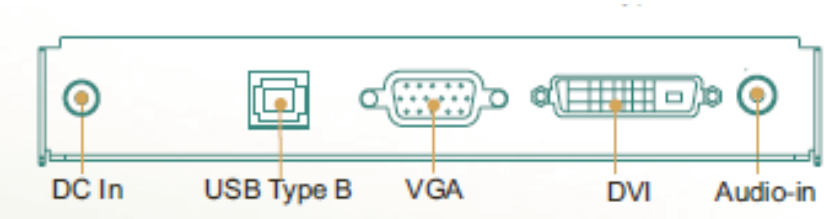
H: 382mm

W: 409.9mm

D: 212.3mm

Rear I/O Panel Connectivity

- Stand Type



I/O Port	Connector Type	Description
DC IN	DC IN connector	Connect the 12V power adaptor to this port
USB	B Type	Connect to touch screen
VGA	D-Sub 15	Connect 2nd LCD screen or CRT monitors
DVI	D-Sub 25	Connect 2nd LCD screen or CRT monitors
Line in	Phone Jack Connector	Connect speakers to this port

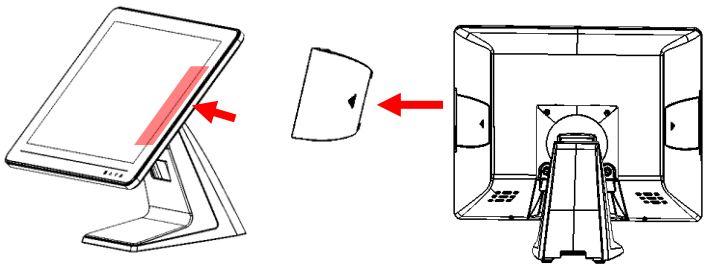
Aer Monitor AM-1017 Packing List

Standard		Optional & Peripherals	
1	17" AM-1017 Aer Monitor Touch Terminal	**1**	MSR / RFID / Finger Print Receiver I-Button
2	50W (12V/4.16A) External Power Adaptor	**2**	20x2 VFD / 20x2 LCM / 240x64 LCM
3	AC Cord	**3**	15" 2nd Display Pole Type
4	Aer monitor base	**4**	2-in-1 peripherals module

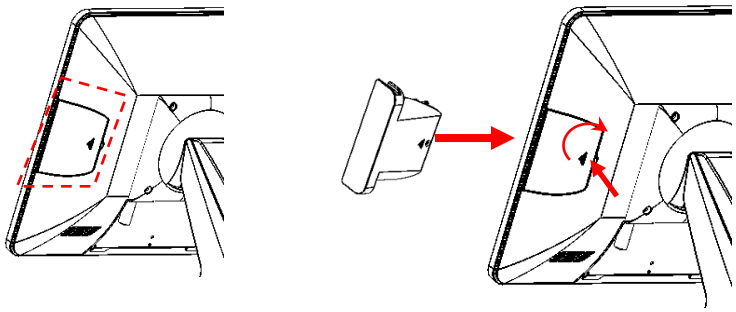
Chapter 2

MSR / Finger Print Reader/ RFID / i-Button Installation

1. **Remove the plastic cover at the back of Touch Display Module**



2. **Insert the MSR / RFID / Finger Print Reader / I-button Module into USB A-Type Connector. Fix the Touch Display Module with one screw.**

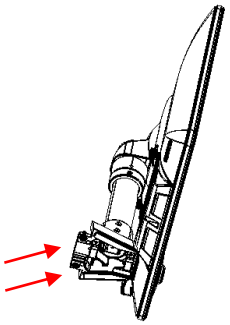


3. **Make sure the USB connected and screw is fastened well.**

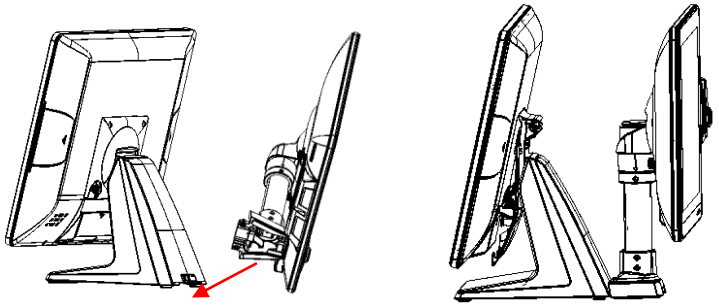
4. **If you are looking for the detail Utility of MCR, Finger Print Reader, I-button Reader, RFID Reader, please contact FEC's FAE.**

15" 2nd Pole Type VFD / LCM Installation

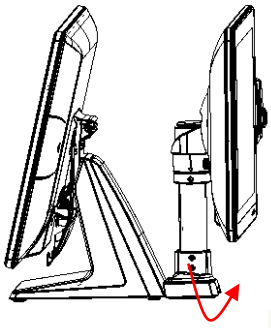
1. **Assemble the 2nd screen with pole type with 2 screws**

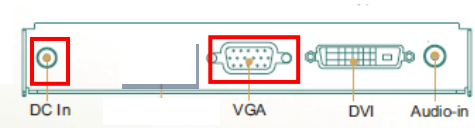


2. **Assemble the 2nd Screen with pole type to Terminal.**



3. **Plug in VGA and DC 12V cables**

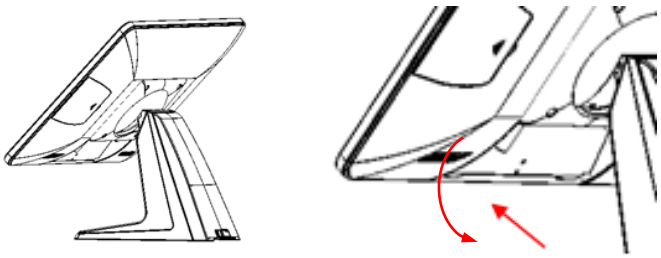




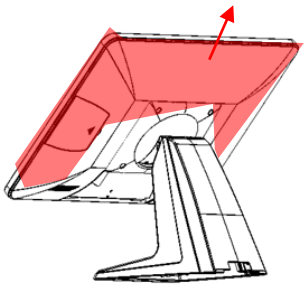
Note : They should connect to the system.

17" 1st Touch Display Installation & Swapping

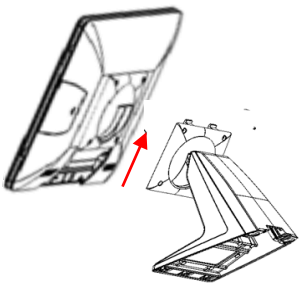
1. **Release 2 thumb screw at the back side of Display**



2. **Lift the Display Module up to disassemble from the main unit of terminal**

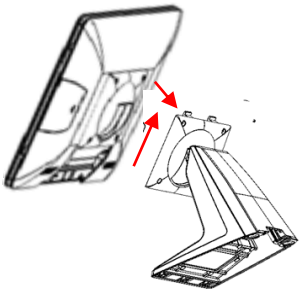


3. **Display and Aer monitor base are separated.**



4. **Reverse the process can assembly back the touch display module.**

   **** please make sure the touch display module is firmly connected to the docking slot ****

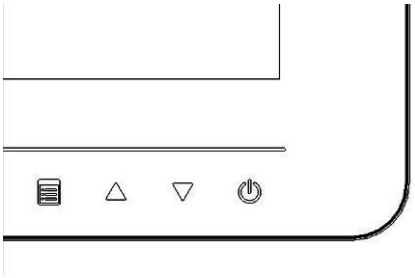


****Note****

During the process of disassembly and installation, please ensure the terminal is "Power Off" and remove AC.

OSD Function and Adjustment

OSD function and adjustment



Back Light Power (finger touch for 5 seconds)
Back Light Power On – Blue LED indication
Back Light Power Off – Red LED indication

Menu item up select, item value increase and auto tune

Menu item down select and item value decrease

Display OSD menu and enter
Next page

All buttons are invisible till one touch of any. After 5 seconds, the lights will back to invisible without further touch.

Menu Function Introduction

Menu	Function
1) AUTO SETUP	auto tune
2)BRIGHTNESS	brightness adjustment
3)CONTRAST	picture contrast adjustment
4)DISPLAY ADJUST	picture parameter adjustment
5)COLOR TEMPERATURE	color temperature adjustment
6)LANGUAGE	multi-language setup
7)OSD DISPLAY	OSD parameter setup
8)VGA/DVI	VGA/DVI signal setup
9)AUDIO	audio function adjustment
10)RECALL	reset all menu item value to default setting
11)EXIT	exit OSD menu

Chapter 3

Software Installation and Setup

AM-1017omes with a variety of drivers for different operating systems.

You can download all the necessary drivers and utilities from http://www.fecpos.com.

FEC P-Capacitive/ Resistive Touch Utility (EETI Controller)

FEC Projective – Capacitive Touch Utility Introduces:

1. **Mode of FEC Capacitive Touch Panel and default settings**
2. **EETI TouchKit Tools Installation**

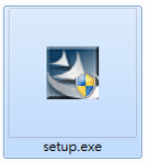
Mode of FEC P-Capacitive/ Resistive Touch Panel

	Win XP, POS Ready 2009	Win7, POS Ready7
Mouse Mode	Yes Driver Needed	Yes Driver Needed
Touch Mode	N/A	Yes No Driver Needed

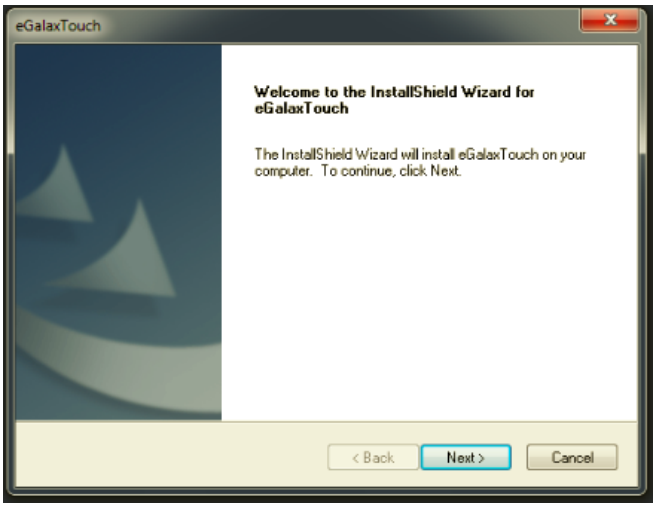
EETI TouchKit Tools Installation

EETI TouchKit Tools Installation for Windows XP

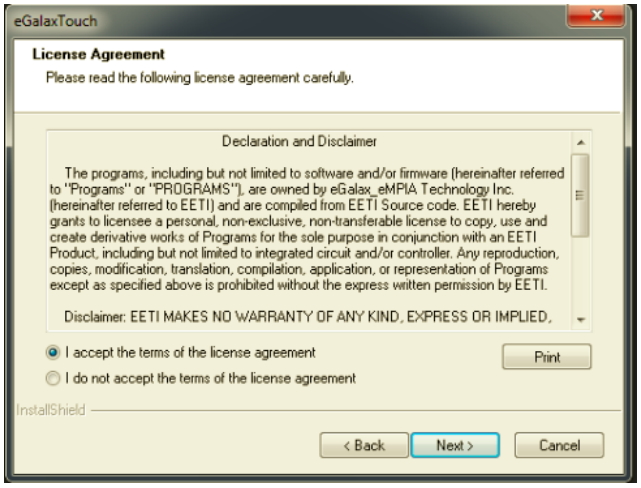
1. Down load Touch Kit for WinXP from FEC website.
2. Execute **Setup.exe**



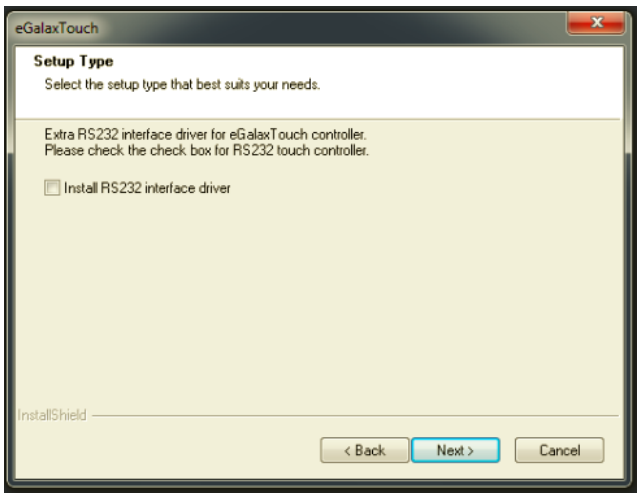
3. Click **Next**



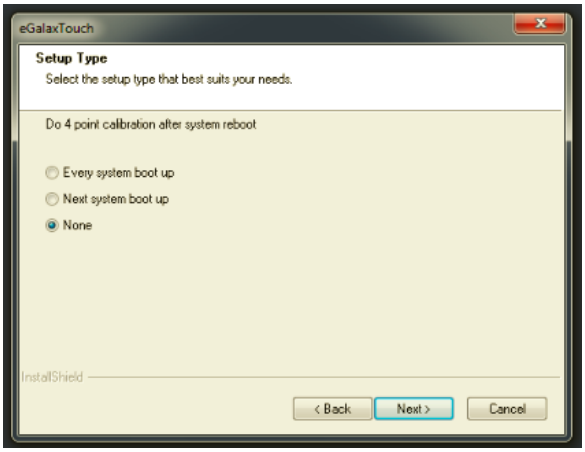
4. Click **Next**

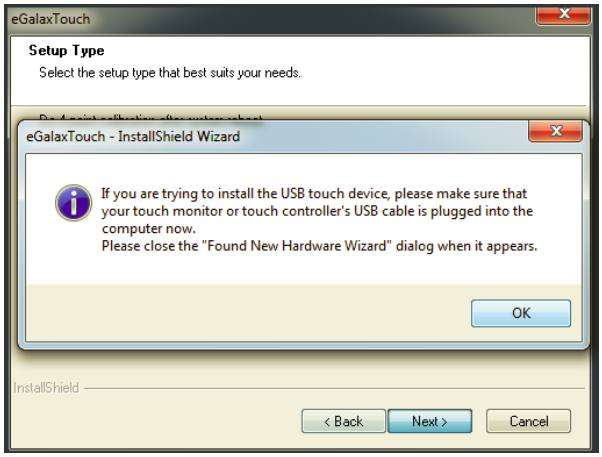


5. Click Next and do not choose RS232

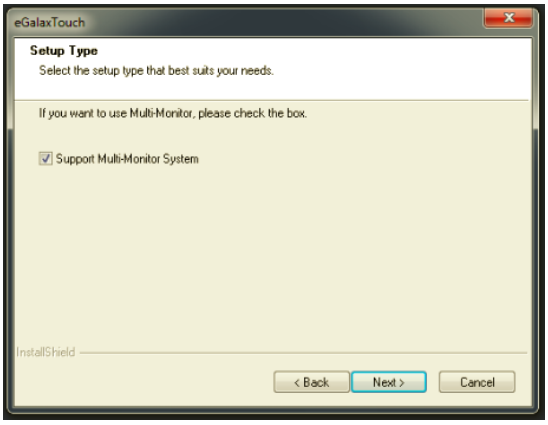


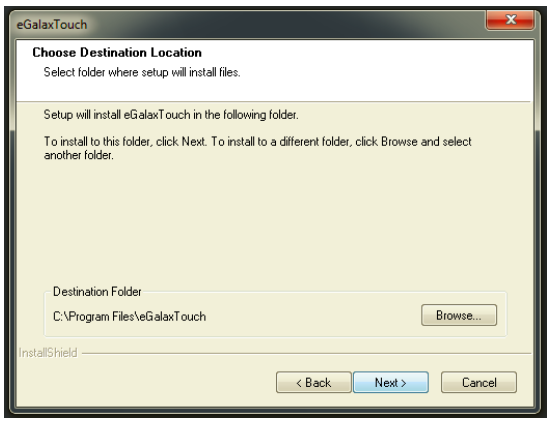
6. Select None



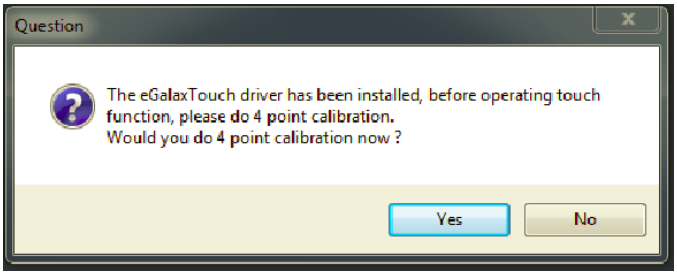


7. **Click** Next **for further installation process**





8. Select No



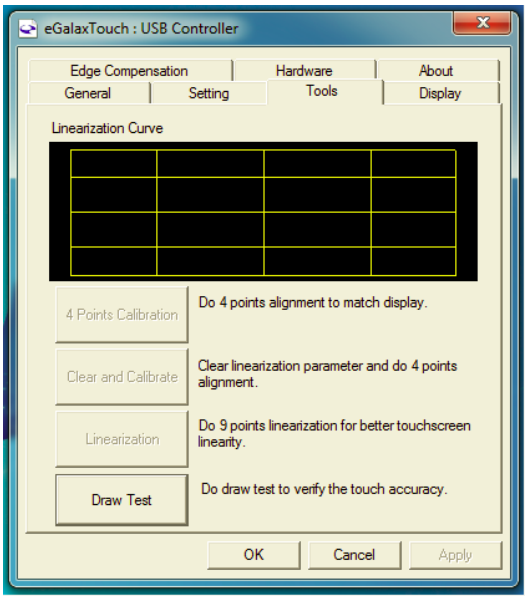
TouchKit Control Panel for P-Capacitive/ Resistive Touch

This section explains the different options in the TouchKit control Panel.

Tools tab

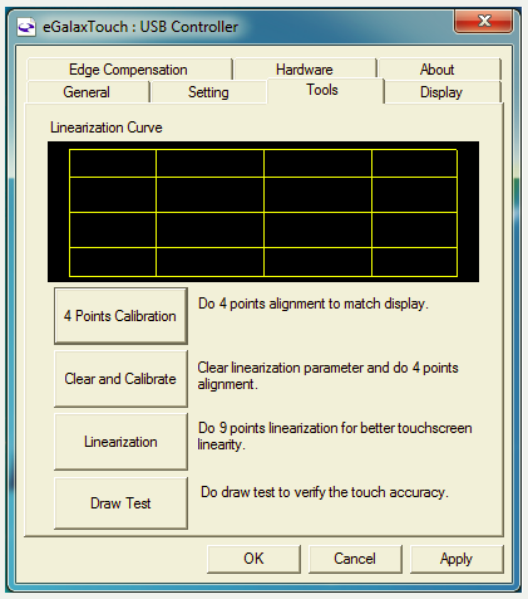
P-Capacitive

Do not need to calibrate the touch screen with the **4 Points.**



Resistive

The tools tab allows you to below calibrate the touch screen with the **4 Points.**



Chapter 4

Specifications

AM-1017 Specifications

Aer Monitor		AM-1017 Stand Type	
Main Specifications	LCD Display Size	17'TFT LCD	
	Max. Resolution	1280 x 1024	
	Max. Color	16.7 M	
	Contrast Ratio	1000: 1	
	Touch Screen	Touch	
		Projective-Capacitive	5W Resistive
	Panel	LED	LED
	Brightness	350 nits	250 nits
	On Screen Display (OSD)	Menu, Up, Down, Power	
I/O Ports	Touch Screen Interface	1 x USB Slave	
	Video Port	1 x VGA , 1 x DVI	
	Audio Port	1 x Line in	
	DC-in Port	1 x3.5mm DC jack	
	Finger Print Receiver	Optical Finger Print Receiver, USB interface	
	RFID Reader	13.56M Hz RFID reader , USB interface	
	I - Button Reader	USB interface	

	Pole Type	VFD	20x2 (9mm) Character Mode
		LCM	20 x 2 Character Mode 240x64 Graphic Mode
		2nd Display	15" 2nd Monitor
Others	Power Supply		50W (12V/4.16A) External Power Adaptor / Cable DC PLUG / Power12V USB
	Dimension		409.9 x 331.8 x 38.6 (Without Base) 409.9 x 382 x 212.3 (With Base)
	Mounting		VESA 100 x 100

Aer Monitor		**AM-1017 Bracket Type**	
Main Specifications	LCD Display Size	17"TFT LCD	
	Max.Resolution	1024 x768	
	Max.Color	16.2 M	
	Contrast Ratio	700: 1	
	Touch Screen	optional	
	Panel	LED	LED
	Brightness	350 nits	250 nits
	On Screen Display (OSD)	Menu,Up,Down,Power	
I/O Ports	Touch Screen Interface	N/A	
	Video Port	1 x VGA (DB15) / 1 x DVI (option)	
	DC-in Port	1 x3.5mm DC jack	
Built-in Components & Peripherals	MSR	N/A	
	Finger Print Reciever		
	RFID Reader		
	I - Button Reader		

Chapter 5

Troubleshooting

Please note that the following troubleshooting guide is designed for people with strong computer hardware knowledge or Engineers and Maintenance.

Touch Panel Does Not Work

A) Check “Touch Display Module” is connected well with terminal.

B) Check HID USB touch device is detected by OS.

C) (Resistive Touch) Check if the EETI driver or the TouchKit driver has been properly installed. Or try to re-install again (Please refer to the EETI driver and touch kit installation).

D) (Capacitive Touch) Check if the capacitive touch is automatically detected by Windows 7, or properly installed the touch driver in Windows XP.

E) Check well cabling between touch panel and touch controller

F) (Capacitive Touch Calibration) Reboot the system, and the Capacitive Touch can be calibrated automatically.

OSD Panel Cannot Work Precisely

A) Please touch each single OSD button for more than two seconds in order to trigger the function.

B) Make sure the finger is not touching more than one button each time.