USB Aegis Series



USB Aegis V1.0

USB Aegis - Series

Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables and shielded AC power cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity

This device complies with part 15 of the 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.

Important Safety Information

SAFETY INSTRUCTIONS

- 1. Please read these safety instructions carefully.
- 2. Keep this User's Manual for later reference.
- 3. Don't use liquid or spray detergent for cleaning. Use only a moistened sheet or cloth.
- 4. For pluggable equipment, the socket-outlet should be installed near the equipment and should be easily accessible.
- 5. Keep this equipment from extreme humidity areas.
- 6. Lay this equipment on a stable surface when installing.
- Do not leave this equipment in a non-air conditioned environment, or in a storage temperature above 60° C. Such conditions may damage the equipment.
- 10. Place the power cord so that it will not be stepped on. Do not place anything over the power cord. The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product.
- 11. All cautions and warnings on the equipment should be noted.
- 12. If the equipment is not used for a long time, disconnect the equipment from the mains to avoid damage.
- 14. Never open the equipment. For safety reasons, qualified service personnel should only open the equipment.
- 15. If one of the following situations arises, get the equipment checked by service personnel:
 - a. The Power cord or plug is damaged.
 - b. Liquid has penetrated the equipment.
 - c. The equipment has been exposed to extreme moisture conditions.
 - d. The equipment does not work well or you cannot get it work according to the user's manual.
 - e. The Equipment has been dropped and damaged.
 - f. The equipment has obvious signs of damage.

Caution: Danger of explosion if battery is incorrectly replaced. Replace only with same type, and discard used batteries according to manufacturers instructions.

Warnings: Not intended for Outdoor Use.

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Features

- > Cast aluminium front and base construction rugged and durable
- Compact size and small footprint fits where space is at a premium
- Standard VGA for easy interface to a standard PC VGA port.
 (1) Wireless Wi-Fi LAN 802.11b (optional)
 - (2) USB upstream port for connection to host PC.
 1x Powered USB (+12V) downstream port
 1x USB 2.0 downstream port
 1x USB to RS232 port
- Flicker-free LCD display easy on the eyes
- Low radiation poses less hazard to user's health
- Power-thrift environmentally friendly
- Tiltable display adapts to placement, user position and lighting conditions
- > VESA mounting holes fits optional tilt/swivel wall mount fixtures
- Flexible power options tap power from the computer or use an external adapter
- Point of sales industry specific options touch screen, VFD customer display, magnetic card reader

1

Specifications

Model	U1	52TA	U1	21TA	U122TA
Display Panel Type	TF	T LCD	TF	TLCD	TFT LCD
Display Area	15.00"			1"	12.1"
Display Resolution	10	24 x 768 XGA	800	DX600	800X600
Colour Resolution	262	2,144	16.	7M	16.7M
Pixel Pitch	0.2	97x 0.297	0.3	06X0.306	0.306X0.306
Brightness	350	0 nits (typ)	150) nits (typ)	300 nits (typ)
Contrast Radio	40	0:1 (typ)	150	D:1 (typ)	200:1 (typ)
-	_		_		
Response time	16	ms	40r	ns	20ms
	_	-	_		
Interfaces cables & connectors		Standard VGA fo use with a Video Graphic Adapter	r	Model specific PS/2 for MCR RS232 for to power.	options:- & 32 Keyboard, uch screen, DC
Energy Saving Mode	Э	VESA DPI	MS d	compliant	
Power Supply		U152TA=12v @ 4	A an	d U12xTA=12v	@2A
Weight	"	U152TA=6.4 kg ar	nd U	12xTA= 5.5 Kg	

Please note that the "x" denotes model specific options, e.g. U121TA standard brightness and U122TA is high brightness.

The "T" means with Touch Screen, and the "A" stands for Analog. For Model U12xTA, it is recommended to use 800X600 @ 60Hz for display adapter settings. For Model U152TA, it is recommended to use 1024x768 @ 60-75Hz for display adapter settings. Other resolutions would function, but possibly at degraded display quality.

Dimensional Diagrams

U12xTA

U152TA







Exploded View Diagram



What is provided with the USB Aegis

Upon unpacking, please inspect to make sure all items are in place and in good condition. If there is any damaged or missing item, please contact your dealer immediately.

The following items come as standard

- 1. LCD Display unit with tilt base
- 2. Power bracket 9000XC1694
- 3. DC power cable 9000XC1718
- 4. USB Cable 9000XC1607
- 5. VGA Cable 9000XC1693
- 6. PS/2 Keyboard converter cable 9000XC1652
- 7. User's manual
- 8. Documents, Drivers and utilities CD



Switch and Controls

Model U152TA / U12xTA has built-in OSD (on screen display) controls to adjust various display parameters. The control buttons are located on the bottom of the back cover.



USB Aegis – Series OSD Settings

There are four buttons on OSD panel: Menu / Enter, Right, Left and LCD ON/OFF. The functions of these four buttons are as follows

Menu/Enter Button

Press it to open OSD window and enter user mode to do the function adjustment or selection of the item. It may have many levels in one item. As you select this kind of item, you will enter the next level and see the sub-items.

Right Button

Press it to Scroll item Right or to decrease the value or to switch the selected item to another.

Left Button

Press it to Scroll item Left or to increase the value or to switch the selected item to another.

-).
- LCD ON/OFF Button

Control LCD ON/OFF button

OSD Menu Structure



Functions include: [Brightness] [Contrast] [Exit]



This item will adjust the **brightness** of the screen. This function will adjust the offset value of ADC. Setting this value too high or too low will destroy the quality of image. Values are from 0 to 255



This item will adjust the **contrast** of the screen. This function will adjust the gain value of ADC. Adjust this value too high or too low will destroy the quality of image. Values are from 0 to 255



Press the **EXIT** key to upper level.

-	Dist	É E	PE R						<u>.</u>			10:	24×	768	3@1	00	Hz	•	•	Functions include: [Auto color] [S RGB] [Color temp] [Exit]
	unice:	e gant																 eren a		
															•					
				8 ,	X	T	П.	e cu		8.		- 8		1						
			e.,	2				101050	1						4					
											623									



This item will **auto**matically adjust **color**.



Standard RGB mode



This item includes **user colors 4200K, 5000K, 6500K, 7500K, 9300K**. RGB **User color** values are from 0 to 255.



Press the **EXIT** key to upper level.



Functions include: [Auto adjust] [Extend screen] [Phase adjust] [H position adjust] [V position adjust] [Exit]



This item will **automatically adjust** the H/V position, frequency, phase, and black level.



Extend screen in display. Value from 0 to 100



This item will adjust the sampling **Phase**. Value from 0 to 32.



This item will adjust **horizontal** display position of the image. Values are from 0 to 100



This item will adjust **vertical** display position of image. Value from 0 to 100



Functions include: [OSD detail] [Factory reset] [Sharpness] [640 / 720] [Exit]



OSD detail function, include OSD maintain time (Value from 0 to 60), OSD icon H/V position adjust (Value from 0 to 100).



Factory reset, press this item to load default value.



Sharpness function. Value from 0 to 6



640 / 720 mode change.



Press the **EXIT** key to upper level.

USB Aegis – Series Software Installation

USB-to Serial Driver Installation

- 1. Insert the FEC Utility CD and Locate D:\Usb-Aegis\PL-2303HX
- 2. Select the relevant operating system folder that you are using.
- 3. Shown below are self-explanatory examples for Windows 2k & XP InstallShield Wizard





ELO Touch Tools Installation

ELO Touch Tools Installation for all Windows Operating Systems

- 1. Locate D:\TOUCHSCREEN\
- 2. Select the relevant ELO folder for the operating system that you are using.
- Example. If you are installing for a Windows 98 system, then select ELO Win9x_Me. If you are installing under Windows 2000 or XP then select ELO Touch 2K_XP
- 4. Run Setup.exe

BOO TOUCHSYSTEMS	Welcome to Elo's MonitotMouse for Windows 95/90 Setup. This program will install the Elo touchmonitor driver on your computer. This driver supports the connection of up to four touchmonitors on your computer. It is stongly recommended that you eait all Windows programs before running this Setup program.
	C BASS

5. Click Next



6. Check "Install serial Touch screen Drivers." And Click Next.



End-User L	icense Agreement	l.,			1
RY DOWN	DADING AND/O	IR INSTALLING	THE SOFTWA	RE YOU ARE	NTY.
AGREEING	TO BECOME BO	JUND BY THE	TERMS OF THE	S AGREEMENT,	
NCLUDIN	THIS SOFTWA	RE PRODUCT	LICENSE AND L	IMITED WARRAN	
MPORTAD Agreement ouchoorer computer s "SOFTW/	IT READ CAREFI ("EULA") is a lega Elo TouchSystems n and controller or stiware, printed is RE"). By installing	ULLY: This Elo al agreement be a for the softwar touchmonitor, aterials and any p. copying or oth	TouchSystems E tween you (eithe re portion of this) which includes th "anline" or elec- terwise using the	ind-User License r an individual or a Elo Touch/Systems te accompanying tronic documentati SOFTWARE, you	an agree
to you acc	ept the terms of the	e preceding lice	ense agreement?	If you choose No,	, you will
of have ful	I touchmonitor fun	ctionality and p	etup will close. T	o have full function	vality you

7. Read the "License Agreement" and click Yes if you accept it.



8. Select "Auto-detect ELO devices." and click Next.

It is very important to let the ELO driver installation program automatically locate the serial Touch Controller. This is because the 2 serial ports in the USB-Aegis are automatically enumerated by the Host PC and stored in the Windows Registry.

Note, if you ever disconnect the USB cable from the Host PC you must always reinsert it into the same physical USB port. If you plug it into another Host PC USB port, Windows will detect, install and enumerate 2 more consecutive COM ports.

For example: If the Host PC already has COM1 and COM2 serial ports, and the PC USB port 1 is the original connection point, USB-Aegis serial ports will be enumerated as COM3 and COM4. If you then unplug from the PC USB port 1 and connect to the PC USB port 2, Windows will autodetect the addition of 2 serial ports and automatically install the driver software, and enumerate the serial ports as COM5 and COM6. This will result in the loss of the Touch Screen interface until you re-insert the cable into the original USB port.

Elo Touchscreen Setup		X
ēln	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.	
TOUCHSYSTEMS	₩ coms	
WILE IS IN THE	Once you have selected a COM port, click Next to continue the installation.	
	< Back Next > Cancel	

9. ELO tools will search all available "serial" ports and locate the touch controller automatically. Depending on how many serial ports your host PC already has, a screen similar to the one above will be displayed with the COM port that has the Touch Controller already checked for you.

Do not change anything.

Just click **Next** to continue.

Elo Touchscreen Setup	
eln	You have selected the CDM ports listed below to use with your touchmonitor.
TOUCHSYSTEMS	
	Click Next to complete the installation or click Back to changed your selections.
	< Back Next> Cancel

10. Click Next to continue



11. Wait until the ELO Touch Tools have been installed.



12. Select Calibrate ELO touch screen control panel and click Finish.

At this point the system may continue with the calibration process or it may wish to be rebooted first.

USB Aegis - Series

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard
	So Elo Serial Touchmonitor Interface
	Windows has finished installing the software for this device.
	The hardware you installed will not work until you restart your computer.
	To close this winsed, click Finish
	Cleack: Finish Cancel

13. Depending on which version of Windows O/S you are using, the system may or may not display the screen above. If it does then: -

Click **Finish** and the system again may, or may not, request to be rebooted.

System 9	Settings Change			×
?	You must restarl Do you want to	t your compute restart your co	r before the new setting mputer now?	gs will take effect.
		Yes	No	

14. If the system needs to be rebooted the screen above will be displayed. Click **YES** to restart your computer.

After the system finishes rebooting, if calibration has not already taken place, then follow the directions to calibrate ELO Touch Tools.

ELO Control Panel

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

General tab

The general tab allows you to:

- > Change the COM port your touch screen is set to.
- > Calibrate the touch screen with the Align button.



Mode tab

The Buttons tab allows you to:

- > Adjust all mouse emulation controls.
- Change cursor properties
- > Enable or disable right mouse button utility.

eneral Mode Sound Properties	1 About
Mouse button emulation mode C Click on touch C Click on release Mouse emulation	Drag delay
Options Hide arrow mouse pointer Left-handed mouse Show tool tray utility	Double click area

Sound tab

The Sound tab allows you to:

> To change sound properties for ELO touch tools.

General Buttons Sound Diagnostics About
Enable click sounds
Low Tone High
Short Duration Long
Touch here to test beep sound.
OK Cancel Apply

Properties tab

The Diagnostics tab allows you to:

View Controller Information.

Windows monitor number:	0
Touchscreen type:	AccuTouch 💦
Connected on:	COM3
Controller model:	Not Available
Controller Status:	Working properly
Driver version:	Eloser.Sys 4.10

About tab

The About tab displays Information about ELO Touchsystems

General Buttons Sound Diagnostics About
GOD
Elo Touchscreen Control Panel
Copyright © 1998, 1999, 2000
Elo TouchSystems, Inc. All rights reserved.
www.elotouch.com
OK Cancel Apply

TouchKit Tools Installation

TouchKit Tools Installation for all Windows Operating Systems

- 1. Locate D:\TOUCHSCREEN\eGalax Touch\Driver
- 2. Select the relevant eGalax folder for the operating system that you are using.
- Example. If you are installing for a Windows 98 system, then select Win9x_Me. If you are installing under Windows 2000 or XP then select Win2000_XP
- 4. Run Setup.exe

Setup		×
	Welcome to TouchKit Setup	
	This program will install TouchKit on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.	

Setup	×
Setup Type Choose the setup type that best suits your needs.	1
PS2 Interface Installation, Please do not check this check bo unless you want to install PS2 touchkit controller.	х
PS2 Touchscreen Driver	
InstallShield	
< Back	Next > Cancel

6. As the USB-Aegis uses a Serial RS232 controller just click Next

Setup	×
Setup Type Choose the setup type that best suits your need	ds.
Touchkit Accessory Utility	
🔲 Rotating Monitor Utility	
🗖 Shutdown Utility	
InstallShield	
	< Back Next > Cancel

Setup	×
Choose Destination Location	
Select folder where Setup will install files.	1
Setup will install TouchKit in the following folder.	
To install to this folder, click Next. To install to a different another folder.	iolder, click Browse and select
┌─ Destination Folder	
C:\Program Files\TouchKit	Browse
InstallShield	
< Bac	k Next > Cancel

8. Click Next

Select Program Folder		
Please select a program folder.		í.
Setup will add program icons to the Program name, or select one from the existing folders	n Folder listed below. You may type a new l s list. Click Next to continue.	iolder
Program Folders:		
TouchKit		
Existing Folders:		
Accessories		
Administrative Tools		
SiS630_730 V2.08 Startup		
stallShield		

USB Aegis - Series

It is essential that the TouchKit driver installation program locate the serial port itself. Once installed, you must also always use exactly the same USB port on the Host PC. Please read the important **Note** in the ELO section earlier to fully understand this need.

Setup		×
Setup Status		
Searching Touchkit	Controller on COM Port	×
&	Searching Controller On: COM3	
Info	rmation	×
	Touch Controller Found in COM3. Add this controller now	?
	Yes No	
InstallShield		
		Cancel

10. Click Yes



11. Click Finish to restart your computer.

After the system finishes rebooting follow the directions to calibrate the Touch screen.

USB Aegis – Series Wireless LAN Driver Installation

Wireless LAN Driver Installation for all Windows Operating Systems (Optional)

- 1. Open D:\Wireless LAN folder
- 2. Run Setup.EXE



3. Click Next

InstallShield Wizard		×
Choose Destination Location Select folder where Setup will install files.		
Setup will install Wireless LAN USB in the foll	owing folder.	
To install to this folder, click Next. To install to another folder.	a different folder, click Brows	e and select
Destination Folder		
C:\Program Files\WLAN Inc\Wireless LAN	Utility	Browse
InstallShield		
	< Back Next >	Cancel

I/O Board Configuration

There is only 1 physical main I/O board (9000PB0650) This I/O board connects all secondary I/O boards, devices and ports. The following diagrams and tables explain in detail the connector assignments and uses.



Connector **JP1** (which is on the reverse "bottom" side of the I/O board) is a multi device connector. All internal devices are attached to this socket via a 34-way ribbon cable which is physically keyed so that can only be inserted one way into the **JP1** socket.

The RS232 port Pin 9 can be made to supply power to RS232 peripherals that require either +12 volts or +5 volts, or it can be set to be the standard Ring Input (RI) signal generally associated with modem use.

JP2 is the function selector for the RS232 port.

Important Note: Only one jumper is ever used on this selector at any time.

Shown below is a diagram of the USB connections and port numbering. **Please note:**

The MSR used in the diagram below is a standard FEC type and is generally interchangeable with other MSR modules used with other FEC POS models. If you need to reprogram this MSR for country specific or special formatting, then it has to be programmed via the PS/2 Keyboard connection.

The required Windows utility to perform this MSR reprogramming task is included on the driver CD.





VGA port

PIN No.	Description
1	RED
2	GREEN
3	BLUE
4	NC
5	GND
6	GND
7	GND
8	GND
9	NC
10	GND
11	NC
12	SM DATA
13	SM CLK
14	V-SYNC
15	H-SYNC

CON1 USB to RS232 port

PIN No.	Description
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI/DC output (RI is the default setting)



CON2 USB 2.0 downstream port

PIN No.	Description
1	+5V
2	USB2.0_2-
3	USB2.0_2+
4	GND

CON3

POWERED USB 2.0 downstream port

PIN No.	Description	PIN No.	Description
1	+5V	5	GND
2	USB2.0_1-	6	+12V
3	USB2.0_1+	7	+12V
4	GND	8	GND

CON4

USB 2.0 upstream port

PIN No.	Description
1	+5V
2	USB2.0_0-
3	USB2.0_0+
4	GND

CON5 PS/2 KB port

PIN No.	Description
1	KB-DATA
2	NC
3	GND
4	+5v
5	KB-CLK
6	NC



DC port (DC +12V inport)

PIN No.	Description
1	+12V
2	GND
3	NC

JP1

I/O Bus connector

PIN No	Description	PIN No Description	
1	KB-CLK	2	AGND
3	KB-DATA	4	PC-CLK
5	+5V	6	PC-DATA
7	H-SYNC	8	V-SYNC
9	SM DATA	10	BLUE
11	SM CLK	12	GREEN
13	AGND	14	RED
15	USB_2+	16	USB_2-
17	AGND	18	VCC
19	USB_3+	20	USB_3-
21	AGND	22	VCC
23	USB2.0_4+	24	USB2.0_4-
25	AGND	26	VCC
27	DTR	28	CTS
29	TXD	30	RTS
31	RXD	32	DSR
33	+12V	34	AGND

JP2

RS232 Power selector Jumpers

PIN No.	Description
1-2	+12V
3-4	RI
5-6	+5V

Hardware Installation

Model U152TA / U12xTA

1. Turn off the computer.

2. Put the USB Aegis on a steady surface.

3. (Please refer to the **External Power Adapter** section for instruction on using an external power adapter and skip this step).

Powering from the host computer through the **Power Bracket**:

- **a**. Open the computer case.
- b. Secure the Power Bracket to an unused expansion slot bracket location.
- c. Connect the connector on the **Power Bracket** wire assembly to a matching one from computer power supply.
- d. Close the computer case.
- e. Connect the USB Aegis Power Cable to the connector on the Power Bracket.
- 4. Connect the VGA Cable to the VGA port on the computer.
- 5. Connect the USB Cable to the USB port on the computer.
- 6. Connect the PS/2 Cable to the PS/2 keyboard port on the computer.



External Power Adapter (optional)

For situations where the Power Bracket cannot be used to power the USB Aegis, an optional External Power Adapter can be used instead.

- 1. Check the items in the External Power Adapter kit, including a power adapter and an AC cord.
- 2. Turn off power to the computer and turn the USB Aegis power switch to off.
- 3. Insert the Power Adapter jack plug to the USB Aegis Power jack socket.
- 4. Connect the AC plug of the Power Adapter to a 110/240-volt AC outlet.



AC CORD

MCR Installation

Please note: throughout this document references are made to MCR and MSR, they are in fact the same thing. (MCR = Magnetic Card Reader) (MSR = Magnetic Stripe Reader)

The MCR option can be fitted to the right side of **USB Aegis**. This option allows the reading of magnetic stripe card through keyboard input.

* If there is a need to modify the MCR parameters, such as country code and track combination, please follow the instruction in the section, **MCR Parameter Modification**.

Please check the items in the MCR Kit.



- 1. Check the items in the MCR option kit.
- 2. Turn off Power to the USB Aegis and the computer.

3. Remove the MSR cover plate that can be found on the right side and to the rear of the main $\ensuremath{\mathsf{Unit}}$



- 4. Attach the MCR Assembly to the main unit and connect the MCR cable to the MCR socket.
- 5. Secure the MCR to the main unit with 2 screws.
- 6. Turn on USB Aegis power.



MCR Parameter Modification

This option is for users who need to customize the MCR parameters for a particular task.

Some of the useful parameters include:

The selection of country code, other than the default English.

The choice of track combinations.

The preamble/postamble codes.

The MCR parameters can be modified by using the supplied utility program. The utility can be found on the CD that came with your system in the "Utilities" folder. The program name is msr_v12_win.zip.

If you are upgrading and earlier system to include our MCR reader, then this utility can be located on our website at: -

http://www.firich.com.tw/tech_drivers.htm in the section labelled "MSR Utility".

Unzip this file onto your system hard disk, in a folder of your choice.

It will also create 3 subfolders named Disk1, Disk2, and Disk3.

Change to the folder "**Disk1**" and run the "**Setup.exe**" program, and follow the simple onscreen instructions.

When the installation finishes, you will find that a new folder has been created in your "Program files" folder, labelled as "Decoder" with a subfolder named "S64 Decoder"

Now change folder to C:\Program Files\Decoder\S64 Decoder and run the program named "S64_cfg.exe"

When the program has loaded please select the **Magnic_Reader** menu item as in the following picture.

By using the 3 top items listed; **Interface**, **Communication**, and **Miscellaneous**, you will be able to alter many of the parameters associated with the MCR unit.

When you have finished your modifications and are sure that they are set exactly how you want them to be, just click on the menu item **Transmit** to download the new parameter to the MCR unit.

Please refer to the Help menu for any further assistance.

MCR Utility Reader

🐃 S64 Configuration: New File - [Miscellaneous Parameters]						
File Bar_Decoder Magnic_Reader Tools Help						
Commu	nication neous	\$ <mark>M</mark>				
Language Track Set Al 0	iefault har					
Language Se Transm	2					
US English	C UK English	C Italian	C Spanish			
C French	C Geman	C Swedish	C Switzeland			
C Hungarian	C Japanese	C Belgium	C Portuguese			
C Denmark	C Netherlands	C Reserved 1	C Reserved 2			
Set Default						

VFD Customer Display Installation

Please check the items in the VFD Customer Display Kit.



- 1. Remove the base cover to expose the 9000PB0650 I/O board.
- 2. Remove the 4 screws that secure the 9000PB0650 I/O board.
- 3. Carefully turn the 9000PB0650 I/O board over
- 4. Locate **JP2** and move the <u>one (and one only)</u> Jumper between pins 1-2 this will supply +12volts to the VFD display.
- 5. Return the 9000PB0650 I/O board to it's original position and secure with the 4 screws you removed earlier.
- 6. Replace the base cover.
- 7. Turn off power to USB Aegis and to the computer.
- 8. Remove the VFD Mounting Cover from the Base of USB Aegis.



9. Secure the VFD Mounting Coupler to the Base with three VFD Mounting Screws.



- 10. Thread the RJ-45 connector of the VFD Signal Cable through the VFD Mounting Coupler, from the bottom of USB Aegis.
- 11. Plug the RJ-45 connector into the VFD Customer Display.



- 12. Fit the VFD Customer Display onto the VFD Mounting Coupler.
- 13. Plug the DB9M connector of the VFD Signal Cable to the external RS232 COM port on the main I/O board 9000PB0650.

The VFD display now only needs to be configured for country specific and communication parameter settings.

Please refer to the manual that came with the VFD on how to set it up via the accessible dip switches.

Trouble Shooting

When encountering difficulties in using this product, please follow the steps below. If the problem persists, please contact the dealer.

1. No picture on screen

- a. Check the AC cord and signal cable. Make sure they are properly connected.
- b. Check that the power button on the OSD panel is turned on.
- c. Check if the computer has entered energy saving mode.

2. Abnormal display colour

- a. Check if the signal cable is properly connected to the computer.
- b. For model U152TA / U12xTA, using the on-screen-adjustment mode to adjust the colour parameters.

3. Skewed or distorted display

- a. Check if the signal cable is properly connected to the computer.
- b. For model U152TA /U12xTA, using the on-screen-adjustment mode to adjust the geometric parameters.

4. Picture too large or too small

- a. Check if the display resolution is set correctly in the operating system.
- b. For model U152TA / U12xTA, using the on-screen-adjustment mode to adjust the size parameters.

5. Touch screen does not work

- a. Check if the COM port cable is connected to the Touch Controller.
- b. Check that the USB to Serial driver has been installed correctly.
- c. Check that the correct touch driver has been installed.
- d. Check if the COM port number is set correctly.
- e. Check that the Aegis "USB" cable is plugged into the original Host PC USB port onto which the drivers were originally installed.
- f. If the problem persists, uninstall then re-install the USB to Serial drivers followed by the Touch Screen drivers.

6. VFD Customer Display does not display properly

- a. Check if the power & signal cables are connected properly.
- b. Check whether the power switch is turned on.

7. Magnetic Card Reader does not work

a. Check if the MCR Connector is properly connected to the MCR socket on the rear of the unit.

8. The card swipe character(s) is incorrect or shows random characters

a. The country code parameter setting may need modification, please refer to the section, MCR Parameter Modifications.