Second Display Installation Guide

windows-2000



Point-of-Sale Hardware System

Part No:48201030 July 2003 (V1.0)

1. Accessory





VGA Cable

Serial Cable





Warranty Card

Drivers Bank(V1.3 or Above)

The following drivers in the folders of Driver Bank are necessary for driver installation.

Folder	Driver	Function
	Acrobat	Acrobat Reader Installation
	BIOS Tool	BIOS Update Tool
Common	CDROMDrv	CDROM driver installation (for DOS)
	Elo_Touch	Touch screen driver Installation
	LAN_drive	LAN driver installation
	Netmos	Enable COM5/COM6
	Smart Card	Smart Card driver installation
	VGA	SMI712 VGA Card driver installation
	Audio	Audio driver Installation
B55	UDMA	UDMA driver installation
	VGA	VGA driver installation
	Card Reader	Card Reader Test Program
Test Utility	Cash Drawer	Cash Drawer Test Program
	VFD	Customer Display Test Program

2. Specification

Model Number		P0750600	P0750500	P0750400
LCD Display	Size	12.1"	10.4"	8.4"
	Resolution	800 x 600	800 x 600	800 x 600
	Brightness	180 cd/m ²	150 cd/m ²	150 cd/m ²
	View Area	246 x 185mm	211 x 158mm	170 x 128mm
	Color	6 bit x 3 RGB (20	62,144)	
Touch Screen(Option)	5-wire resist	tive touch screen		
Interface Signal	D-SUB 15 p	in female		
	Analog RGE	3, Scan frequency	y V:60~75Hz,	
	800 x 600, 6	640 x 480		
OSD Control Button	Power, Men	u, Up, Down & Ei	nter	
Power Status LED	Two-tone LE	ED, green for acti	ve status and oran	ge for suspend
DC Power Input	+12V/2A su	oply from VGA Co	onnector D-SUB 15	5 pin 4 &11
Pole Height	137 or 167 r	nm for POS500		
	155 or 185 r	mm for POS600		
Tilt Angle	0 ~ 40 degre	ee		
Spill Proof	Screen and	Bezel		
Operation Temperature	0 ~ 40			
Operation Humidity	8% ~ 90%, I	non-condensing		
Storage Temperature	-20 ~ 60			
Storage Humidity	5% ~ 95%, I	non-condensing		
Back-Light Life	20,000 hour	S		
System MTBF	40,000 hour	S		
Safety and EMI	CE			
	FCC(This de	evice complies wi	th part 15 of the FC	C rules. Operation
	is subject to	the following two	condition: (1)This	device may not
	cause harm	ful interference a	nd (2) This device I	must accept any
	interference	received, includi	ng interference tha	t may cause
	undesired o	peration.)		
Accessory	D-SUB 15-p	in female-to-male	e VGA cable of 300)mm long

2.1 I/O Connection

These I/O connectors are located at the junction of the Display panel and supporter.



#	Function	Description
1	СОМ	For Touch Screen connection (reserved for future models).
2	VGA	For Display interface connection, support +12V/2A DC from pin 4& 11,
		when mount with POS system.
3	DC Input	For power Input connection (reserved for the Display stands alone use).

2.2 OSD Control Buttons

Control buttons of hidden OSD are located at the back of the second display. The cover is to avoid customer changing the display setting.



#	Function	Description
1	Menu	Starts the On-Screen-Display.
2	Enter	Marks the item you select.
3	Down	Moves the selection downwards
4	Up	Moves the selection upwards.
5	Power	Turns the power of the Second Display on or off.

3. 2nd display VGA Card Installation



a. Install 2nd display VGA card to B55 motherboard PCI slot





b. Take the LCD VGA cable



c. Cable of 23 pin(A) connected to 2nd display VGA card



d. Cable of 5 pin(B) connected to B55 motherboard.



e. Cable of 28 pin(C) across the case of panel connected to LCD Bridge board.





f. Second display VGA cable connected to B55 motherboard JP9.

3.1 2nd display VGA card Jumper Setting



JP6 LCD type	JP4 Display	Size			JP2 TFT	- Inter	face Ty	/pe	
Close =TFT	Pin	1-2	3-4		Pin		1-2	3-4	5-6
Open =STN	640*480	Close	e Clos	se	Per 9 Bit	t	Close	Close	Close
	800*600	Open	Clos	e	Per 12 E	Bit	Open	Close	Close
	1024*768	Close	ope	n	Per 18 F	Per 24	Close	Open	Close
					2Pix 24	Bit	Open	Open	Close
					2Pix 24	Bit	Close	Close	Open
					2Pix 36	Bit	Close	Open	Open
					Analog 7	ΓFΤ	Open	Close	Open
JP5 VGA Bios ROM	JP3 LCD Par	nel Dis	play S	et					
Close =On PCI Card	Pin		1-2	3-4	5-6	7-8	3 1	No Pane	I ID
Open =On System Bd	640*480 TFT	· (Close	Close	Close	Clo	ose a	assign= /	4II
	600*480 DST	N (Open	Close	Close	Clo	ose d	pen	
	800*600 TFT	· (Close	Open	Close	Clo	ose		
	800*600 DST	N (Open	Open	Close	Clo	ose		
	1024*768 TF	т (Close	Close	Open	Clo	ose		
	1024*768 DS	STN (Open	Close	Open	Clo	ose		

Default jumper setting(POS 500)

<u> </u>	/							
JP6 LCD type	JP4 D	isplay	/ Size		JP2 TF	T Interfa	се Туре	
Close	Pin	1-2	2 ;	3-4	Pin	1-2	3-4	5-6
		Op	oen (Close		Close	Open	Close
JP5 VGA Bios ROM	JP3 L	CD Pa	anel [Display	Set			
Close	Pin [·]	1-2	3-4	5-6	7-8			
	(Close	Ope	n Close	e Close			

4. Install the Second Display (on POS600)



a. Get the VGA cable through the supporter of the b. Insert the male head of the VGA cable into the second display. VGA port.







d. Insert the other end of the VGA cable (female) into the VGA port of the system to establish the connection.

5. Driver Installation

5.1 VGA

Phoenix - AwardBIOS	CMOS Setup Utility
 Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations 	Load Optimized Defaults Set Password Save & Exit Setup Exit Without Saving
Esc : Quit	†↓++ : Select Item
Onboard IO, IRQ, (DNA Assignment

a. Enter "Integrated Peripherals" of the Main Menu of BIOS CMOS Setup Utility.

Phoenix -	AwardBIOS CMOS Setup
In	tegrated Peripherals
Onboard Lan Boot ROM	[Disabled]
Internal PCI/IDE	[Both]
SIS 630 OnChip PCI Device	[Press Enter]
Onboard SuperIO Device	[Press Enter]
USB Controller	[Enabled]
USB Keyboard Support	[Enabled]
Init Display First	[Onboard]
System Share Memory Size	[32 MB]
LCD Panel ID	[D]

 c. Use "Page Up" or "Page Down" key change to "Onboard". Make sure you save the changes by pressing F10 key or moving to "Save & Exit Setup."

📑 B55 - Microsoft Internet Explore	r			
File Edit View Favorites Too	ls Help			
📙 🗢 Back 🔹 🖘 👻 🗎 🔞 Search	Folders	CHistory	Pr Pr 🗙	5
Address 🖳 855				
B55	Audio	UDMA	VGA	
Select an item to view its description				

e. Click"VGA"on the B55 window.

Onboard Lan Boot ROM	[Disabled]	Item Help
SIS 630 OnChip PCI Device Onboard SuperIO Device USB Controller USB Keyboard Support Init Display First System Share Memory Size LCD Panel ID	(Press Enter) (Press Enter) (Enabled) (Enabled) (PCI Slot) (32 MB) (D)	Menu Level →

b. Move the arrow key downward to the "Init Display First" item.

🛃 POSV1.2 (D:)					_ 🗆 X
File Edit View Favorites 1	rools Help				-
🛛 😓 Back 🔹 🔿 👻 🖹 🥘 Sean	ch 强 Folders	History	哈哈×		
Address 🚇 POSV1.2 (D:)					ê60
	▲ B55	B59	B63	B65	
Select an item to view its description.	B74	B75	COMMON	Datasheet	
Capacity: 563 MB	IE5	readme	TEST_Utility	readme	

d. Click "B55" on the POS driver window.

🗘 Back 🔹 🖃 👻 🔁 🛛 🍪	5earch 🔁 Folders	() History	R R X	M III.
Address 🖳 VGA				
	UTILITY	WIN2000	WIN9X	WINNT40

f. Click"Win2000" on the VGA window.

	I					
WIN2000 - Microsoft Internet	Explorer					- 0 -
File Edit View Favorites T	ools Help					
🗢 Back 🔹 🖘 💼 🛛 🔞 Searc	h 🔁 Folders	(C)History	8 G 🗙 6	ð 📰•		
Address 🖳 WIN2000					→ ⁽²⁾ Go	Links
	AGP	SETUPDIR	SETUPDLL	SETUPRES	UTILRES	
WIN2000						
Select an item to view its description.	WIN2000			5 851		
See also:	11212000			_0,01	_0001111	
My Documents My Network Places My Computer	DATA.TAG	CATA1			os	
		SETUP	O SETUP	SETUP.ISS	SETUP.LID	

g. Click"SETUP" on the VGA2000 window.



i. Click "Next" on the Setup Type window.

Current Settings: Setup Type TYPICAL

Program Folder

1

SVGA drivers Utilities... DirectX

Target Directory C:\Program Files\SiS630_730_V2.02.02

Wallpaper

SiS630_730 V2.02.02

k. Click "Next" on the Select Copying Files

< Back

Next >

Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.

Start Copying Files

window.



×

h. Click "Next" on the Welcome window.



j. Click "Next" on the Select Program Folder window..



I. Click "Finish" on the Setup Complete window.

▼

Cancel

5.2 2nd display VGA

Phoenix - AwardBIO	S CMOS Setup Utility
 Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations 	Load Optimized Defaults Set Password Save & Exit Setup Exit Without Saving
Esc : Quit F9 : Menu in BIOS F10 : Save & Exit Setup	†↓→+ : Select Item
Onboard IO, IRQ,	DMA Assignment

a. Enter "Integrated Peripherals" of the Main Menu of BIOS CMOS Setup Utility.

Phoenix - AwardBIOS CMOS Setup Uti Integrated Peripherals	lity
Onboard Lan Boot ROM [Disabled]	Item Help
 SIS 630 OnChip PCI Device [Press Enter] Onboard SuperIO Device [Press Enter] USB Controller [Enabled] USB Keyboard Support [Enabled] Init Display First [PCI Slot] System Share Memory Size [32 MB] LCD Panel ID [D] 	Menu Level 🕨

c. Use "Page Up" or "Page Down" key change to "PCI Slot". Make sure you save the changes by pressing F10 key or moving to "Save & Exit Setup."

Phoenix -	AwardBIOS CMOS Setup
In	tegrated Peripherals
Onboard Lan Boot ROM	[Disabled]
Internal PCI/IDE	[Both]
SIS 630 OnChip PCI Device	[Press Enter]
Onboard SuperIO Device	[Press Enter]
USB Controller	[Enabled]
USB Keyboard Support	[Enabled]
Init Display First	[Onboard]
System Share Memory Size	[32 MB]
LCD Panel ID	[D]

b. Move the arrow key downward to the "Init Display First" item.

Action View ↓ ← → m II 😭 . 3
E Computer
🗄 🛲 Disk drives
🗄 🖳 Display adapters
🗄 🖓 DVD/CD-ROM drives
🗄 📲 Floppy disk controllers
🗄 🛲 Floppy disk drives
🗄 🚭 IDE ATA/ATAPI controllers
🗄 🍪 Keyboards
🗄 🗑 Mice and other pointing devices
🗄 📲 Network adapters
🗄 🧟 Other devices
📕 🖓 Video Controller (VGA Compatible)
🗄 🧠 PCMCIA adapters
🕀 🞐 Ports (COM & LPT)

d. Click "Video Controller" on the Device Manger.

General	Driver	Resource	s]
V	Video (Controller (V	GA Compatible)
	Driver I	Provider:	Unknown
	Driver I	Date:	Not available
	Driver	Version:	Not available
	Digital	Signer:	Not digitally signed
No driv the driv	er files ar er files fo	e required o r this device : Update Dr	r have been loaded for this device. To uninstall e, click Uninstall. To update the driver files for iver
No driv the driv this dev	er files ar er files fo vice, click	e required a r this device : Update Dr	r have been loaded for this device. To uninstall , click Uninstall. To update the driver files for iver.
No driv the driv this dev	er files an er files fo rice, click	e required o r this device : Update Dr Details	r have been loaded for this device. To uninstall s, click Uninstall. To update the driver files for iver.

e. Click "Update Driver" on the Driver.



f. Click "Next" on the Welcome window..



g. Click "Next" on the Upgrade window.



h. Click "Browse" on the Upgrade window.



- i. Click "Finish" on the Upgrade Complete window.
- j. Now the 2nd display VGA driver is installed.

5.3 2nd display VGA control panel (Optional)





b. Click "VGA" on the common window..

Ge Back → → → Fal	O Search - Seolders	History	
Address		9	
	SMI712		
VGA			

window



c. Click "SMI712" on the VGA window.





e. Click "Setup" on the control_ panel window.



f. Click "Next" on the welcome window..





- g. Click "Next" on the Select window.
- h. Click "Finish" on the Setup Complete window..

5.3.1 Change the Primary Monitor



1-a.The default primary monitor on 2nd display VGA card. Identify is 1.



2-a.The default second monitor on SiS630 Identify is 2.





1-b. Right click of the mouse on the desktop and choose the "Properties" item.

2-b.The monitor on SiS630



1-c. Click the "Setting" button on the Display Properties window



2-c. The monitor on SiS630



1-d. Choose identify 2 and right click to set "Primary " then click "OK" button



2-d..The monitor on SiS630



Arrange Icons	
Paste	
Paste Shortcut	
New 🕨	
Properties	

- 1-e..The monitor on 2^{nd} display VGA card .
- 2-e. Right click of the mouse on the desktop and choose the "Properties" item.



1-f. The monitor on 2nd display VGA card.

ay Properties		<u>? ×</u>
ackground Screen Saver Appe	arance Web Effects Setti	105
Select a background picture or HTH	4L document as Wallpaper:	se 1
Blue Lace 16		
Part - Datas		INTERNET INTERNET
🗃 Boiling Point 🗃 Chateau	Center	zispidy.
📓 Boiling Point 📓 Chateau 🍟 Coffee Bean	Center	

2-f. Click the "Setting" button on the Display Properties window



1-g. The monitor on 2nd display VGA card.

Background Screen Sa	ver Appearance Web Effects Set	tings
	2 1	
Display:	Duc00) on Silicon Motion LunyEM+	
Display: 2. Digital Flat Panel (80 Colors High Color (16 bit)	Dx600) on Silicon Motion LynxEM+	More

2-g. Choose identify 1 and disable "Extend Windows.." then click "OK" button



1-h..The monitor on 2nd display VGA card.



2-h. The monitor on SiS630.



1-i. The monitor on 2nd display VGA card



2-i. Right click of the mouse on the desktop and choose the "Properties" item.



1-j.The monitor on 2nd display VGA card.



2-j. Click the "Setting" button on the Display Properties window



1-k.The monitor on 2nd display VGA card.



2-k. Choose identify 1 and enable "Extend Windows.. " then click "OK" button



1-I. Now the second monitor on 2nd display VGA card.



2-I. Now the primary monitor on SiS630

5.3.2 Stretch the Screen (If your LCD monitor screen area setup is 640*480)



a. Right click of the mouse on the desktop and choose the "Properties" item.



c. Select "Advanced" in the setting window.



e. Before stretch.

Note: Stretch the screen support 256 color and high color.



b. Click the "Setting" button on the Display Properties window

at set

achora		Adapter		Monitor
Troubleshoot	ing	Color Management	t S	LynxEM+
	Chip Ir LCD P Contro Displa	nformation Lyn: 'anel	xEM+, 2 MB 7, 800 × 600 1-06-05 1-05-14	
Display Switchi LCD: COI COI	ng: N FF		C ON C OFF	© NTSC C BAL
Special Modes DualApp: C 01		ualView: CON COFF	ch: ON OFF	
Hot Key:]
ET E 11 11 1	Key	Hot <u>K</u> ey Set	tings	

d. Click stretch "ON" on the LynxEM+ window.

