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Preface

This manual is designed to assist users in setting up and using the LCD Monitor. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer.

FCC Statement Warning

This equipment has been tested and found to comply with the limits for a Class B 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 instruction, 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 into 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.

Any changes or modifications not expressly approved by the manufacturers may void the user's authority to operate this equipment.

NOTE: A shielded-type signal cord is required in order to meet the FCC emission limits and also to prevent interference to the radio and television reception. It is essential that only the supplied signal cord be used.

1

Canadian DOC Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B repecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Important Safety Instructions

Please read the following instructions carefully. This manual should be retained for future use.

- 1. To clean LCD Monitor screen;
 - -- Power off LCD Monitor and unplug the AC Cord.
 - -- Spray a non-solvent cleaning solution onto a rag.
- -- Gently clean the screen with dampened rag.
- 2. Do not place the LCD Monitor near a window. Exposing the monitor to rain water, moisture or sunlight can severely damage it.
- 3. Do not apply pressure to the LCD screen. Excess pressure may cause permanent damage to the display.
- 4. Do not remove the cover or attempt to service this unit by yourself. Servicing of any nature should be performed by an authorized technician.
- 5. Store LCD Monitor in a room with a room temperature of $-20^{\circ} \sim 60^{\circ}$ C (or $-4^{\circ} \sim 140^{\circ}$ F). Storing the LCD Monitor outside this range could result in permanent damage.
- 6. If any of the following occurs, immediately unplug your monitor and call an authorized technician.
 - Monitor to PC signal cable is frayed or damaged.
 - Liquid spilled into LCD Monitor or the monitor has been exposed to rain.
 - LCD Monitor or the case is damaged.
- 7. A certified line is required to connect this device to a power outlet. For a nominal current up to 6A and a device weight above 3 kg, a line not lighter than H05VV-F, 3G, 0.75 mm² must be used.
- 8. For use only with power supply LINEARITY LAD6019AB5 and Li-shin, LSE9901B1260.

Chapter 1 Installation

Unpacking

Before unpacking the LCD Monitor, prepare a suitable workspace for your Monitor and computer. You need a stable and clean surface near a wall power outlet. Make sure that LCD Monitor has enough space around it for sufficient airflow. Though the LCD Monitor uses very little power, some ventilation is needed to ensure that the Monitor does not become too hot.

After you unpack the LCD Monitor, make sure that the following items were included in the box: User's Manual

- LCD Monitor *
- 1.8M Monitor-to-PC VGA Cable *
- 1.8M Monitor-to-PC DVI-D Cable
- 1.8M Stereo Jack Audio Cable
- 1.8M RCA Jack Audio Video Cable
- *

*

*

AC Adapter

1.8M Power Cord

1.8M S-Video Cable

If you find that any of these items is missing or appears damaged, contact your dealer immediately.

Connecting the LCD Monitor and Base

When you open the box to take the base and put on the desk first. Then connect the LCD Monitor and base and screw it locked please. (See fig.1-1)

Viewing Angle Adjustment

The LCD Monitor is designed to allow users to have a comfortable viewing angle. The viewing angle can be adjusted from -5°to +25°.(See fig. 1-2).

Figure 1-1 +25

Figure 1-2

Warning: Do not force the LCD Monitor over its maximum viewing angle settings as stated above. Attempting this will result in damaging the Monitor and Monitor stand.

Detaching LCD Monitor from Its Stand

Unscrew screws **0** the swivel base support column and pull it from main body.

Interface for Arm Applications

Before installing to mounting device, please refer to Fig.1-3. The rear of this LCD display has four integrated 4 mm, 0.7 pitches threaded nuts, as well as four 5 mm access holes in the plastic covering as illustrated

nuts, as well as four 5 mm access holes in the plastic covering as illustrated in Figure 1-4. These specifications meet the **VESA Flat Panel Monitor Physical Mounting Interface Standard** (paragraphs 2.1 and 2.1.3, version 1, dated 13 November 1997).

Note : Please using Ø 4mm x 8mm (L) screw for this application

Connecting the Display to your Computer

- 1. Power off your computer.
- Connect one end of the signal cable to the LCD Monitor's VGA port or DVI port.(See Fig 1-5)
- 3. Connect the other end of the signal cable to the VGA port or DVI port on your PC.
- 4. Make sure connection are secure.

Attention: This device must be connected to an off-the-shelf video cable in order to comply with FCC regulations. A ferrite-core interface cable is included in the LCD Monitor package.

This device will not be in compliance with FCC regulations when a non-ferrite-core video cable is used.

Connecting the AC Power

- 1. Connect the power cord to the AC adapter.(See Fig. 1-6)
- 2. Connect the AC adapter's DC output connector to the DC Power Jack of the monitor.
- 3. Connect the power cord to an AC power source.



Connecting the Audio Cable

- Connect the audio cable to the "LINE OUT " jack on your PC's audio card or to the front panel's "AUDIO OUT" jack of your CD ROM drive. (See Fig. 1-7)
- 2. Connect the other end of the audio cable to the LCD Monitor's " LINE IN " jack.

Connecting the AV and S-Video cable

- 1. Connect the AV cable to RCA Jack and follow the color and the other side connect to AV source.
- 2. Connect the S-Video cable from main body to AV source.





Figure 1-3



Figure 1-6



Setting Up the LCD Monitor

3. Make sure the AC power cord is connected to the LCD Monitor.

4. Turn on the LCD Monitor's power switch, located on the bezel of the monitor.

Power Management System

This LCD Monitor complies with the VESA DPMS (version 1.0) Power Management guidelines. The VESA DPMS provides four power saving modes through detecting a horizontal or vertical sync. signal. When the LCD Monitor is in power saving mode, the monitor screen will be blank and the power LED indicator will light yellow.

Chapter 2 Display Controls

User Controls

A brief description and the location of all LCD Monitor function controls and indicators:



Figure 2-1

		0				
1	Stereo Speakers	PC Audio Stereo output.				
2	(DC Power Switch (DC Power-On Indicator)	 Press the soft power switch to switch the monitor ON/OFF. LED lights Blue color Power is ON. LED lights Yellow Monitor is in "Power Saving Mode". LED is off Power is OFF. 				
3	Auto	 Press the Auto Buttons Monitor will Auto-Adjusting. Press the Auto Buttons over 2 second the Monitor Searching next source. 				
4	≪ ≫ Function Select and Adjustment Control Buttons	 Direct press either left or right control button can adjusting speaker Volume control. When press after Menu buttons then Press either left or right control button for OSD first menu (left side) function selection. When selection you want adjusting function then press Menu buttons again for OSD second menu (right side) function selection. You can Press the left button to decrease the OSD setting and press the right button to increase the OSD setting. 				
5	Menu	 Press the Menu will show OSD (On Screen Display) Function Menus table. When OSD (On Screen Display) Menus display press Menu Buttons will enable selection function. 				

Adjusting the Monitor's Display

The monitor has four function control buttons to select among functions shown on OSD menu, designed for easy user-viewing environments.

OSD Function Menu

To access OSD Main menu, simply press one of the Function Select control buttons, and the menu diagram will pop up on the screen as shown on Fig. 2-2:

Continue pressing the Function Select buttons to scroll through the entire menu items, then press Adjustment Control buttons to adjust content of selected item.



Figure 2-2

Function Description

Analog RGB / Digital RGB

Pictur	re						
М	Auto adjust	Press > button, auto adjust the display mode to its utmost performance according to VGA setting.					
¢	Brightness	Adjust the overall image and background screen brightness.					
•	Contrast	Adjust the image brightness in relation to the background.					
	H-position	To move the picture image horizontally left or right.					
	V-position	To move the picture image vertically up or down.					
	Phase	To improve focus clarity an image stability.					
	Clock	To increase or decrease the horizontal size of image.					
BB	Exit	To exit the main menu.					
O Adva	nced						
A	Sharpness	Adjusts the picture sharpness.					
Ч	Color	You have 4 kinds of options.					
-	Cool	This control adjusts the color temperature of the screen image, this item are preset by factory, you can not adjust these setting, The performance is bluer and brighter.					
	Natural	This performance is reddish and closer to paper white.					
	Warm	This performance is yellowish and closer to paper white.					
	User	You can adjust the individual color intensity by yourself. Increase or decrease red, green or blue depending upon which is selected					
	占 User red	Increase or decrease red.					
	-	Increase or decrease green.					
		Increase or decrease blue.					
88	Exit	To exit the main menu.					
Audio)	·					
Ϋ́	Volume	This features adjusts < to decrease volume and > to increase volume.					
Ę,	Base	This features adjusts < to decrease base and > to increase base.					
Ä	Treble	This features adjusts < to decrease treble and > to increase treble.					
attl Attl		This features adjusts < to decrease left speaker volume and > to increase left speaker volume.					
۳.	ATTR	This features adjusts < to decrease right speaker volume and > to increase right speaker volume.					
Å,	Loudness	This features choose on or off to get loudness.					
Ľ,	Mute	This features choose on or off to mute the sound.					
88	Exit	To exit the main menu.					
00	1.//11						

_					
🛷 Optio	ns				
	OSD	To move the OSD image.			
A	OSD H-position	To move the OSD image horizontally left or right.			
	OSD V-position	To move the OSD image vertically up or down.			
	Language	You can choose one of the nine languages you need.			
88	Exit	To exit the main menu.			
🙎 Utiliti	ies				
B	OSD timeout	You can select how long the monitor waits after the last adjust of the key to shut off the OSD menu. The time setting choices are from 5 to 60 seconds.			
	OSD background	You can select opaque or translucent to change OSD background.			
	Source icon	You can select on or off to display OSD icon.			
	Exit	To exit the main menu.			
Reset	-				
©	Memory recall	Reset the currently highlight control to the factory setting. User must be using factory preset video mode to use this function.			
88	Exit	To exit the menu.			
E E Exit		To exit the OSD menu.			
 Composite	Video / S-Video				
Pictu					
	Brightness	Adjust the overall image and background screen brightness.			
Ö	Contrast	Adjust the image brightness in relation to the background.			
	Saturation	Adjusts the color saturation of the screen image.			
	Hue	Adjusts the color hue of the screen image.			
A	Sharpness	Adjusts the picture sharpness.			
₽	Scaling	Adjusts the picture size full screen or 16:9 screen.			
88	Exit	To exit the main menu.			
O Adva	nced				
A	Sharpness	Adjusts the picture sharpness.			
4	Color	You have 4 kinds of options.			
Cool		This control adjusts the color temperature of the screen image, this item are preset by factory, you can not adjust these setting, The performance is bluer and brighter.			
Natural		This performance is reddish and closer to paper white.			
	Warm	This performance is velocities and closer to paper white.			
	User	You can adjust the individual color intensity by yourself. Increase or decrease red, green or blue depending upon which is selected			
	占 User red	Increase or decrease red.			
	🕹 User green	Increase or decrease green.			
	실 User blue	Increase or decrease blue.			
88	Exit	To exit the main menu.			

Audio)					
Ϋ́	Volume	This features adjusts < to decrease volume and > to increase volume.				
∎ Base		This features adjusts $<$ to decrease base and $>$ to increase base.				
Ľ,	Treble	This features adjusts < to decrease treble and > to increase treble.				
₫.	ATTL	This features adjusts < to decrease left speaker volume and > to increase left speaker volume.				
Ϋ́	ATTR	This features adjusts < to decrease right speaker volume and > to increase right speaker volume.				
Å,	Loudness	This features choose on or off to get loudness.				
Å,	Mute	This features choose on or off to mute the sound.				
88	Exit	To exit the main menu.				
Optio	ons					
	OSD	To move the OSD image.				
	OSD H-position	To move the OSD image horizontally left or right.				
K	OSD V-position	To move the OSD image vertically up or down.				
•	Language	You can choose one of the nine languages you need.				
88	Exit	To exit the main menu.				
🐥 Utiliti	ies					
ଚ	OSD timeout	You can select how long the monitor waits after the last adjust of the key to shut off the OSD menu. The time setting choices are from 5 to 60 seconds.				
	OSD background	You can select opaque or translucent to change OSD background.				
Source icon		You can select on or off to display OSD icon.				
E Exit		To exit the main menu.				
Reset	· · · · · · · · · · · · · · · · · · ·					
٩	Memory recall	Reset the currently highlight control to the factory setting. User must be using factory preset video mode to use this function.				
88	Exit	To exit the menu.				
🔳 Exit		To exit the OSD menu.				

Chapter 3 Technical Information

Specifications

LCD Panel Size Display Type Resolution Display Dot Display Area (mm) Display Color Brightness Contrast Ratio Response Time Lamp Voltage Lamp Current Viewing Angle

<u>Fujitsu</u> 19" (48 cm) Active matrix color TFT LCD 1280 x 1024 1280 x (RGB) x 1024 376.32 x 301.056 (H x V) 16.7M 300 cd/m² (typical) 700:1 (typical) Ta=25°C Tr=15ms Tf=10ms 700 Vrms (typical) 7.0 mA rms. (typical) Vertical: $-85^{\circ} \sim +85^{\circ}$ Horizontal: $-85^{\circ} \sim +85^{\circ}$

Input SignalAnalog RGB 0.7Vp-pDigital TMDSInput Impedance75 Ohm $\pm 2\%$ PolarityPositive, NegativePolarityPositive, NegativeTMDSAmplitude0 - 0.7 \pm 0.05 VpTMDSMulti-mode SupportedHorizontal Frequency: $30 \sim 80$ KHz $30 \sim 80$ KHzVertical Frequency: $56 \sim 75$ Hz $56 \sim 75$ HzAudioSoum VrmsAudio Power Output1Wrms + 1WrmsMaxSpeaker $2W 8\Omega x 2$ Composite Signal and S-Video Signal SupportS-Video Y/C (NTSC/PAL)Input SignalComposite Video (NTSC/PAL)S-Video Y/C (NTSC/PAL)Input SignalComposite Video (NTSC/PAL)S-Video Y/C (NTSC/PAL)Input Signal0 - 0.7 ± 0.05 VpControlPower switch (hard and soft types)On/Off switch with LED indicatorSDBrightnessDigitalDigitalContrastDigitalUse EEPROM to save settings in memoryVertical PositionDigitalJogitalPhaseDigitalJogitalPhaseDigitalJogitalPhaseDigitalJogitalVertical PositionDigitalOsD Format20 characters x 9 rowsPower Management20 characters x 9 rows	Video		
PolarityPositive, NegativeAmplitude $0 - 0.7 \pm 0.05$ VpTMDSMulti-mode SupportedHorizontal Frequency: $30 \sim 80$ KHz $30 \sim 80$ KHzVertical Frequency: $56 \sim 75$ Hz $56 \sim 75$ HzAudioInput Signal 500 mVrmsAudio Power Output1Wrms + 1Wrms MaxSpeaker $2W 80 \times 2$ Composite Signal and S-Video Signal SupportS-Video Y/C (NTSC/PAL)Input SignalComposite Video (NTSC/PAL)Solution $0 - 0.7 \pm 0.05$ VpControl $0 - 0.7 \pm 0.05$ VpPower switch (hard and soft types)On/Off switch with LED indicatorOSDBrightnessDigitalContrastDigitalHorizontal PositionDigitalClockDigitalClockDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format 20 characters x 9 rows	Input Signal	Analog RGB 0.7Vp-p	Digital TMDS
Amplitude $0 - 0.7 \pm 0.05$ VpTMDSMulti-mode SupportedHorizontal Frequency: $30 \sim 80$ KHz $30 \sim 80$ KHzMulti-mode SupportedHorizontal Frequency: $56 \sim 75$ Hz $30 \sim 80$ KHzAudioInput Signal 500 mVrmsAudio Power Output1Wrms + 1WrmsMaxSpeaker $2W$ $8\Omega x 2$ Composite Signal and S-Video Signal SupportInput SignalComposite Video (NTSC/PAL)S-Video Y/C (NTSC/PAL)Input Impedance 75 Ohm $\pm 2\%$ Amplitude $0 - 0.7 \pm 0.05$ VpControlPower switch (hard and soft types)Power switch (hard and soft types)On/Off switch with LED indicatorOSDBrightnessDigitalVertical PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Input Impedance	75 Ohm ± 2%	
Multi-mode SupportedHorizontal Frequency: $30 \sim 80 \text{ KHz}$ Vertical Frequency: $56 \sim 75 \text{ Hz}$ $30 \sim 80 \text{ KHz}$ $56 \sim 75 \text{ Hz}$ AudioInput Signal 500mVrms Audio Power Output $1W \text{rms} + 1W \text{rms}$ Max $30 \sim 80 \text{ KHz}$ $56 \sim 75 \text{ Hz}$ Speaker $2W 8\Omega x 2$ Composite Signal and S-Video Signal Support Input SignalS-Video Y/C (NTSC/PAL)Input SignalComposite Video (NTSC/PAL)S-Video Y/C (NTSC/PAL)Input Impedance $75 \text{ Ohm} \pm 2\%$ Amplitude $0 - 0.7 \pm 0.05 \text{ Vp}$ Control Power switch (hard and soft types)On/Off switch with LED indicatorBrightnessDigitalContrastDigitalVertical PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memory 20 characters x 9 rows	Polarity	Positive, Negative	
Vertical Frequency: $56 ~ 75 \text{ Hz}$ $56 ~ 75 \text{ Hz}$ AudioSounVrmsAudio Power Output1Wrms + 1Wrms MaxSpeaker2W 8 Ω x 2Composite Signal and S-Video Signal SupportS-Video Y/C (NTSC/PAL)Input SignalComposite Video (NTSC/PAL)Input Impedance75 Ohm $\pm 2\%$ Amplitude $0 - 0.7 \pm 0.05 \text{ Vp}$ ControlPower switch (hard and soft types)On/Off switch with LED indicatorBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Amplitude	$0 - 0.7 \pm 0.05$ Vp	TMDS
Vertical Frequency: $56 ~ 75 \text{ Hz}$ $56 ~ 75 \text{ Hz}$ AudioSounVrmsAudio Power Output1Wrms + 1Wrms MaxSpeaker2W 8 Ω x 2Composite Signal and S-Video Signal SupportS-Video Y/C (NTSC/PAL)Input SignalComposite Video (NTSC/PAL)Input Impedance75 Ohm $\pm 2\%$ Amplitude $0 - 0.7 \pm 0.05 \text{ Vp}$ ControlPower switch (hard and soft types)On/Off switch with LED indicatorBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Multi-mode Supported	Horizontal Frequency: 30 ~ 80 KHz	30~80KHz
Input Signal500mVrmsAudio Power Output $1Wrms + 1Wrms Max$ Speaker $2W 8\Omega x 2$ Composite Signal and S-Video Signal SupportInput SignalComposite Video (NTSC/PAL)Input Impedance $75 Ohm \pm 2\%$ Amplitude $0 - 0.7 \pm 0.05 Vp$ ControlPower switch (hard and soft types)On/Off switch with LED indicatorBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows			56~75 Hz
Audio Power Output $1Wrms + 1Wrms$ MaxSpeaker $2W 8\Omega x 2$ Composite Signal and S-Video Signal SupportInput SignalComposite Video (NTSC/PAL)Input Impedance $75 \text{ Ohm} \pm 2\%$ Amplitude $0 - 0.7 \pm 0.05 \text{ Vp}$ ControlPower switch (hard and soft types)On/Off switch with LED indicatorDSDBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format 20 characters x 9 rows	Audio		
Speaker $2W \ 8\Omega \ x \ 2$ Composite Signal and S-Video Signal SupportInput SignalComposite Video (NTSC/PAL)S-Video Y/C (NTSC/PAL)Input Impedance75 Ohm $\pm 2\%$ Amplitude $0 - 0.7 \pm 0.05 \ Vp$ ControlPower switch (hard and soft types)On/Off switch with LED indicatorPower switch (hard and soft types)On/Off switch with LED indicatorOSDBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Input Signal	500mVrms	
Composite Signal and S-Video Signal SupportInput SignalComposite Video (NTSC/PAL)S-Video Y/C (NTSC/PAL)Input Impedance75 Ohm $\pm 2\%$ Amplitude $0 - 0.7 \pm 0.05$ VpControlPower switch (hard and soft types)On/Off switch with LED indicatorPower switch (hard and soft types)On/Off switch with LED indicatorOSDBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Audio Power Output	1Wrms + 1Wrms Max	
Input SignalComposite Video (NTSC/PAL)S-Video Y/C (NTSC/PAL)Input Impedance75 Ohm $\pm 2\%$ Amplitude $0 - 0.7 \pm 0.05$ VpControlPower switch (hard and soft types)On/Off switch with LED indicator OSD BrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Speaker	2W 8Ω x 2	
Input Impedance $75 \text{ Ohm} \pm 2\%$ Amplitude $0 - 0.7 \pm 0.05 \text{ Vp}$ ControlPower switch (hard and soft types)On/Off switch with LED indicator OSD BrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Composite Signal and S-Video S	ignal Support	
Amplitude $0 - 0.7 \pm 0.05$ VpControlOn/Off switch with LED indicatorPower switch (hard and soft types)On/Off switch with LED indicatorOSDDigitalBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Input Signal	Composite Video (NTSC/PAL)	S-Video Y/C (NTSC/PAL)
ControlPower switch (hard and soft types)On/Off switch with LED indicatorOSDDigitalBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Input Impedance	75 Ohm $\pm 2\%$	
Power switch (hard and soft types)On/Off switch with LED indicatorOSDDigitalBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Amplitude	$0 - 0.7 \pm 0.05 \text{ Vp}$	
OSDBrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Control		
BrightnessDigitalContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Power switch (hard and soft types)	On/Off switch with LED indicator	
ContrastDigitalHorizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	OSD		
Horizontal PositionDigitalVertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Brightness	Digital	
Vertical PositionDigitalPhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Contrast	Digital	
PhaseDigitalClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Horizontal Position	Digital	
ClockDigitalDisplay Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Vertical Position	Digital	
Display Mode SetupUse EEPROM to save settings in memoryOSD Format20 characters x 9 rows	Phase	Digital	
OSD Format 20 characters x 9 rows	Clock	Digital	
	Display Mode Setup	Use EEPROM to save settings in men	nory
Power Management	OSD Format	20 characters x 9 rows	
	Power Management		

Mode	Power Consumption*	AC Input	LED Color
On	55W maximum	240 VAC	Green
Off	5W maximum	240 VAC	Yellow
Soft switch off	5W maximum	240 VAC	Dark
Disconnected	5W maximum	240 VAC	Yellow: Standby, Suspend, Off Dark: DC Power off

* Meeting VESA DPMS requirements measured from AC Input end of AC adapter. Sync Input

<u></u>					
Signal	Separate TTL compatible horizontal and vertical synchronization Digital TMDS				
Polarity	Positive and negative				
<u>Plug & Play</u>	Supports VESA DDC	1 and DDC2B functions			
External Connection					
Power Input (DC input)	+12VDC / 5A min. input through AC/DC adapter				
VGA Cable	1.8M with 15-pin D-s	ub connector, 1.8M with 24-pin DVI-D			
Audio Cable	1.8M with Stereo Jack	X			
Audio Video Cable	1.8M with Audio Vid	eo Jack (Red + White + Yellow)			
S-Video Cable	1.8M with S-Video Ja	ick			
<u>Environment</u>					
Operating Condition:	Temperature	5°C to 40°C/41°F to 104°F			
Storage Condition:	Relative Humidity Temperature Relative Humidity	20% to 80% -20°C to 60° C/-4°F to140° F 5% to 85%			

Power Supply (AC Input) In

Input Voltage	Single phase, 100 ~ 240VAC, 50 / 60 Hz
Input Current	1.5 A maximum
Size and Weight	
Dimensions	423 (W) x 422 (H) x 172 (D) mm
Net Weight	$6 \pm 0.3 \text{ kg}$
Gross Weight	8.5 ± 0.3 kg

Pin Assignment

		Signal	Signal				
	PIN	Description	PIN	Description	PIN	Description	
	1	Red	6	Red Rtn	11	NC	
	2	Green	7	Green Rtn	12	SDA	
5-10-15	3	Blue	8	Blue Rtn	13	H. Sync.	
	4	Digital GND	9	+5V	14	V. Sync.	
10	5	Digital GND	10	Hot Plug Detect	15	SCL	

For Digital DVI-D connector

		l		Signal13		Signal		Signal
		- 9	PIN	Descrip14tion	PIN	Description	PIN	Description
1-	╶┛╝┛┤	- 17	1	RX2-15	10	RX1+	19	Shield for TMDS Channel 0
			2	RX2+	11	Shield for TMDS Channel 1	20	NC
			3	Shield for TMDS Channel 2	12	NC	21	NC
			4	NC	13	NC	22	Shield for TMDS Channel clock
			5	NC	14	+5V	23	RXC+
8	┼╸┱╾╪	- 24 - 16	6	SCL	15	Hot Plug Detect	24	RXC-
		- C5/C6	7	SDA	16	HPD	C5	GND
			8	NC	17	RX0-	C6	GND
	0		9	RX1-	18	RX0+		

Composite Video: Monitor rear side RCA female (Yellow).



Yellow for Video White and Red for Audio **AV-input** S-Video (Y/C): Monitor rear side 4 Pin Mini PIN female.

S-Video

Standard Timing Table If the selected timing is NOT included in table below, this LCD monitor will use the most suitable available

timing.

Resolution	H. Freq. (KHz)	V. Freq. (Hz)	Pixel Freq. (MHz)	H/V Sync. Polarity	Mode
640 x 480	31.469	59.940	25.175	-/-	VGA-480
640 x 480	37.861	72.809	31.500	-/-	VESA - 480 - 72Hz
640 x 480	37.500	75.000	31.500	-/-	VESA - 480 - 75Hz
720 x 400	31.469	70.087	28.322	-/+	VESA-400-TEXT
800 x 600	37.879	60.317	40.000	+/+	VESA-600-60 Hz
800 x 600	48.077	72.188	50.000	+/+	VESA-600-72 Hz
800 x 600	46.875	75.000	49.500	+/+	VESA-600-75 Hz
1024 x 768	48.363	60.004	65.000	-/-	XGA
1024 x 768	56.476	70.069	75.000	-/-	VESA-768-70 Hz
1024 x 768	60.023	75.029	78.750	+/+	VESA-768-75 Hz
1280 x 1024	63.981	60.020	108	+/+	SXGA
1280 x 1024	79.976	75.025	135	+/+	SXGA

Note: When the in put display mode is not 1280 x 1024, the image is smoothly expanded to 1280 x 1024 dots with the PW131 scaling engine. After expansion from 640x480, 720x400, 800x600, and 1024x768 resolution, the text may look not so sharp, and the Graphics may look not so proportional.

Troubleshooting

This LCD Monitor has pre-adjusted using factory standard VGA timings. Due to the output timing differences among various VGA cards in the market, users may initially experience an unstable or unclear display whenever a new display mode or new VGA card is selected.

Attention

This LCD Monitor Supports Multiple VGA Modes.

Refer to the Standard Timing Table for a listing of modes supported by this LCD Monitor.

PROBLEM Picture is unclear and unstable

The picture is unclear and unstable, please perform the following steps :

- 1. Enter PC to "Shut Down Windows" status while you're in MS-Windows environment.
- Check the screen to see if there's any black vertical stripes appear. If there are, take advantage of the "Clock" function in OSD menu and adjust (by increment or decrement numbers) until those bars disappear.
- 3. Move to "Phase" function in OSD menu again and adjust the monitor screen to its most clear display.
- 4. Click "No" on "Shut Down Windows" and back to the normal PC operating environment.

PROBLEM There is no picture on LCD Monitor

- If there's no picture on the LCD Monitor, please perform the following steps:
- 1. Make sure the power indicator on the LCD Monitor is ON, all connections are secured, and the system is running on the correct timing. Refer to Chapter 3 for information on timing.
- 2. Turn off the LCD Monitor and then turn it back on again. If there is still no picture, press the Adjustment Control button several times.
- 3. If step 2 doesn't work, connect your PC system to another external CRT. If your PC system Functions properly with a CRT Monitor but it does not function with the LCD Monitor, the output timing of the VGA card may be out of the LCD's synchronous range. Please change to an alternative mode listed in the Standard Timing Table or replace the VGA card, and then repeat steps 1 and 2.

PROBLEM There is no picture on LCD Monitor

If you have chosen an output timing that is outside of the LCD Monitor's synchronous range (Horizontal: $30 \sim 80$ KHz and Vertical: $56 \sim 75$ Hz), the OSD will display a "*Out of Range*" message. Choose a mode that is supported by your LCD Monitor.

Also, if the signal cable is not connected to LCD monitor at all or properly, the monitor screen will display a message "*No Input Signal*".