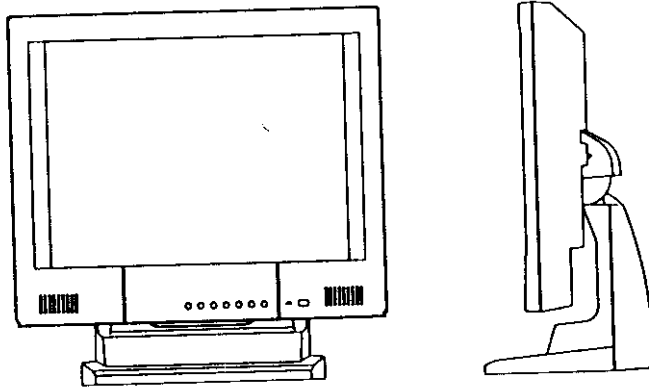


Operation Manual

LT561



15" Ultra High Resolution
Analog Interface
LCD Monitor

SICHERHEITSHINWEISE

1. Lesen Sie die folgenden Hinweise vollständig durch.
2. Bewahren Sie die Anleitung auf.
3. Befolgen Sie alle Hinweise und Warnungen, die am Produkt selbst vermerkt sind.
4. Ziehen Sie den Netzstecker aus der Steckdose, bevor Sie das Gerät reinigen. Verwenden Sie keine flüssigen oder ätzenden Reinigungsmittel. Benutzen Sie zur Reinigung ein feuchtes, fusselfreies Tuch.
5. Betreiben Sie das Gerät niemals in der Nähe von Wasser.
6. Stellen Sie das Gerät niemals auf eine instabile Fläche, Regal oder Tisch. Andernfalls könnte es herunterfallen und beschädigt werden.
7. Sämtliche Schlitze und Öffnungen auf der Unter- und Rückseite des Gerätes dienen zur Lüftung, so daß es ausreichend vor Überhitzung geschützt ist. Diese Lüftungsschlitze dürfen niemals verdeckt werden, auch nicht, indem Sie das Gerät auf ein Bett, Sofa, Kissen oder eine ähnliche Unterlage stellen. Das Gerät darf niemals in der Nähe oder auf einem Heizkörper bzw. einer anderen Wärmequelle stellen. Ebenso wenig darf es in Einbauschränke oder Schränken installiert werden, wenn nicht für ausreichende Belüftung gesorgt wird.
8. Das Gerät muß immer an eine Netzspannung gemäß der Plakette auf der Gehäuserückseite angeschlossen werden. Falls Sie sich nicht sicher sind, welche Netzspannung verfügbar ist, wenden Sie sich an Ihren Fachhändler.
9. Das Gerät ist mit einem 3adrigen Stecker ausgerüstet, der für ausreichende Erdung sorgt. Der Netzstecker paßt aus Sicherheitsgründen nur in eine geerdete Steckdose. Falls der Netzstecker nicht in Ihre Steckdose passen sollte, wenden Sie sich an einen Elektriker, damit dieser die veraltete Steckdose auswechselt.
10. Stellen Sie keine Gegenstände auf das Netzkabel, und verlegen Sie es so, daß niemand hierüber stolpern kann.

11. Wenn Sie ein Verlängerungskabel verwenden, vergewissern Sie sich, daß der Gesamtverbrauch aller angeschlossenen Geräte die maximale Belastbarkeit des Verlängerungskabels nicht überschreitet. Stellen Sie ebenso sicher, daß der Gesamtverbrauch aller Geräte den Wert von 15 A nicht überschreitet.

12. Stecken Sie keine Gegenstände durch die Lüftungsschlitze, da die elektronischen Komponenten im Gehäuseinnern Hochspannungen ausgesetzt sind. Andernfalls können Kurzschlüsse, Elektroschocks oder Feuer die Folge sein. Schütten Sie ebenso keine Flüssigkeiten auf das Gerät.

13. Versuchen Sie nicht, das Gerät selbständig zu warten oder zu reparieren, da Sie sich ansonsten Hochspannung oder anderen Risiken aussetzen könnten. Überlassen Sie sämtliche Reparaturen einem qualifizierten Techniker.

14. Ziehen Sie den Netzstecker aus der Steckdose, und wenden Sie sich an qualifiziertes Fachpersonal, falls das Gerät folgende Merkmale zeigt:

- A. Wenn das Netzkabel oder der Netzstecker beschädigt oder ausgefranst sind.
- B. Falls Flüssigkeiten in das Gehäuseinnere gelangt sind.
- C. Wenn das Gerät Regen oder Wasser ausgesetzt war.
- D. Wenn das Gerät nicht einwandfrei arbeitet, obwohl die nachfolgenden Anweisungen befolgt wurden. Stellen Sie das Gerät nur mit den Reglern ein, die in dieser Bedienungsanleitung besprochen werden, da eine Fehleinstellung anderer Regler das Gerät beschädigen kann und aufwendige Reparaturarbeiten die Folge wären.
- E. Falls das Produkt heruntergefallen ist, oder das Gehäuse beschädigt wurde.
- F. Wenn das Gerät einen außergewöhnlichen Betriebszustand aufweist, der reparaturbedürftig ist.



FCC COMPLIANCE STATEMENT

NOTE

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 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 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a dealer or an experienced radio/TV technician for help.

Warning:

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

Use only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

3





SAFETY INSTRUCTIONS

1. Read all of these instructions.
2. Save these instructions for later use.
3. Follow all warnings and instructions marked on the product.
4. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not use this product near water.
6. Do not place this product on an unstable car, stand, or table. The product may fall, causing serious damage to the product.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
8. This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
9. This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
10. Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
11. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.

12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.

13. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.

14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power cord or plug is damaged or frayed.
- B. If liquid has been spilled into the product.
- C. If the product has been exposed to rain or water.
- D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- E. If the product has been dropped or the cabinet has been damaged.
- F. If the product exhibits a distinct change in performance, indicating a need for service.

15. Jordet Stikkontakt skal benyttes når apparatet tilkobles tele-/ datanett! (For Nordic Only)

16. Apparaten skall anslutas till jordat uttaga när skyddsklenspenning-Sutgången till ett nät som passerar såväl ojordat som jordat miljö. (For Nordic Only)



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1. INTRODUCTION

1.1 General Information

Welcome to the exciting world of high resolution graphics with your purchase of the color LCD monitor!

The Model is a 15-inch intelligent LCD monitor with ultra high resolutions of up to 1024 x 768. The microprocessor-based design was implemented with the user in mind by providing digital controls.

We invite you, the proud new owner of this fine monitor, to read this user's manual before operating.

1.2 Features

- 15" Large Size XGA TFT LCD Panel
- 0.297 mm Pixel pitch
- No Radiation
- Lower Power Consumption (Below 35W)
- Ergonomic Style ID
- 256 K colors
- Microprocessor-based design with digital controls.
- Universal auto-switched power Adapter
- TCO'92 Compliant
- VESA DPMS compliant





1.3 Check list

Before using this monitor, please make sure that all the items listed below are present in your package:

- LCD monitor
- AC-DC power adapter
- This manual
- Power Cord

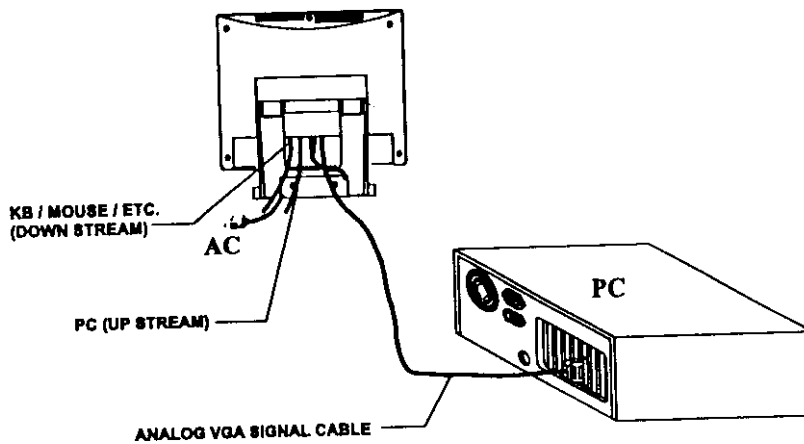
2.1 LCD Monitor setup

2.21. Power Cable Connection

Connect the female end of the power cable to the power input receptacle on the power adapter of the monitor. Then, plug the power cable into the wall outlet, the other end of the power adapter into the DC-IN of the monitor (for check).

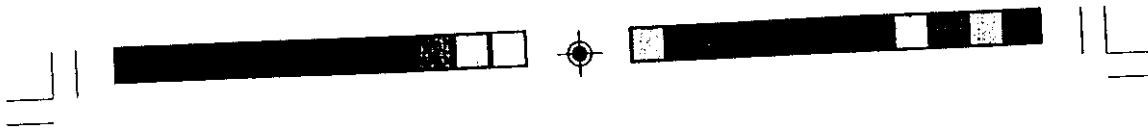
2.22 Signal Cable Connection

Connect the 15-pin end of the VGA signal cable to the female 15-pin D-SUB connector of your VGA card.



2.23 Power ON

Switch the power ON to both of your monitor and computer.



3. ADJUSTING THE CRADLE

3.1 Bezel Adjustment

The Cradle can be adjusted for your maximum viewing comfort. It can be adjusted through angles of 20 degree up and 5 degree down.

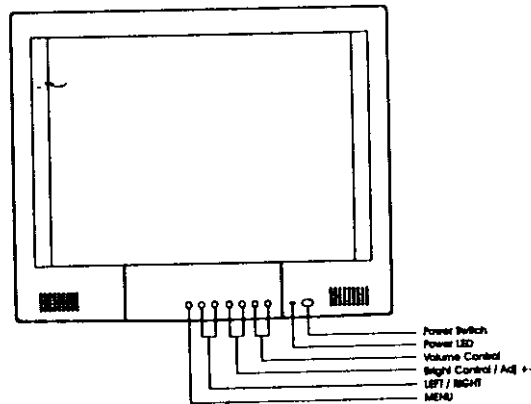


10



4. CONTROL AND ADJUSTMENTS

Front Panel Controls



4.1 Power Switch

Press this button to turn the power ON or OFF. There will be a second delay for the monitor to boost up.

4.2 Power LED

The LED indicator should be ON if the power cord is properly connected and the power button is switched ON. During operation, the indicator light is green. It will turn orange if the monitor is in Power Saving mode or there is no signal applied (the signal cable may not be properly connected or your computer fail.).



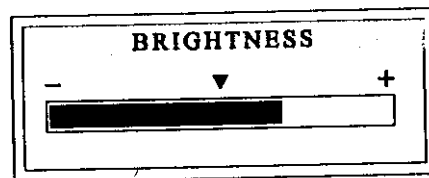
4.3 HOT KEYS

Without press of MENU key to enter the main OSD menu selections you may quickly adjust screen Brightness and Speaker Volume by means of hot keys,.

4.3.1 Brightness Control

Without press of MENU key, just hit the ☀ + will increase , ☀ - will decrease the Brightness .

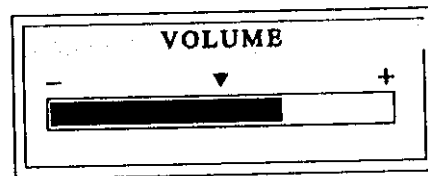
A status bar would be displayed on the screen to let us know its current setting.



4.3.2 Volume Control

Without press of MENU key, just hit the 🔊 + will increase , 🔊 - will decrease the Volume of the speaker.

A status bar would be displayed on the screen to let us know its current setting.



4.4 OSD Main Menu Operation

The OSD menu enables you an easy way to change many features of the monitor in a simple and easy to understand way through its icons and status bar chart.

These operations are selected by press of MENU key.










Press MENU key first, we may adjust the following functions in the A group.

Press MENU key again, we may adjust the following functions in the B group.

In the second menu operation, press the MENU again will end the OSD menu operation. The following procedures will guide you step by step to adjust the monitor to what you need.

The following paragraph describes the meaning of the icons in the OSD menu.

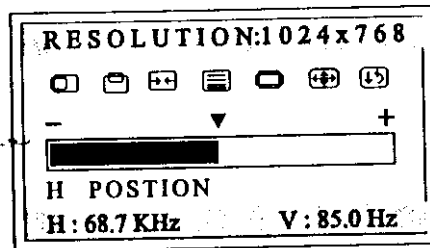
Icon description

	HORIZONTAL POSITION ADJSUT
	VERTICAL POSITION ADJSUT
	PIXEL CLOCK ADJUST
	CLOCK PHASE ADJUST
	AUTO ADJUST
	EXPANSION ON/OFF
	SYSTEM RESET
	CONTRAST ADJUST
	ENHANCED COLOR ON / OFF
R	RED ADJUST
G	GREEN ADJUST
B	BLUE ADJUST




4.4.1 Enter Main MENU Selections Group A


Press the MENU key will enter into the main menu selections group A.




4.4.1.1 Horizontal Positions

Use the "←" and "→" to move the cursor to the icon shown as , then press "+" to adjust the display to right, and "-" to left until you are satisfied with the result. A status bar will be displayed to let you know the current setting value.


4.4.1.2 Vertical Positions

Use the "←" and "→" to move the cursor to the icon shown as , then press "+" to adjust the display to upper, and "-" to lower position until you are satisfied with the result. A status bar will be displayed to let you know the current setting value.

4.4.1.3 The Pixel Clock


Use the "←" and "→" to move the cursor to the icon shown as , then press "+" to increase, and "-" to decrease the pixel clock until you get a better and clear display. A status bar will be displayed to let you know the current setting value.

4.4.1.4 The Clock Phase


Use the "←" and "→" to move the cursor to the icon shown as , then press "+" to increase, and "-" to decrease the CLOCK PHASE to until you get a clear and crispy display. A status bar will be displayed to let you know the current setting value.




4.4.1.5 The Auto Adjustment

Use the "←" and "→" to move the cursor to the icon shown as , then press "+" or "-" to adjust the setting to its best result automatically.

4.4.1.6 The Expansion ON/OFF

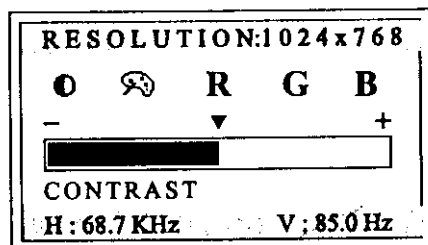
Use the "←" and "→" to move the cursor to the icon shown as , then press "+" or "-" to toggle the EXPANSION setting on or off.

4.4.1.7 The System Reset


Use the "←" and "→" to move the cursor to the icon shown as , then press "+" or "-" to execute the SYSTEM RESET. This action will initialize the settings to their original factory default setting.

4.4.2 Enter the Second Main Menu Selections Group B

While you are in the first main menu selections, press the MENU key again will let you enter the second menu selections Group B




4.4.2.1 The Contrast

Use the "←" and "→" to move the cursor to the icon shown as , then press "+" to increase, and "-" to decrease the CONTRAST until you are satisfied with the result. A status bar will be displayed to let you know the current setting value.





4.4.2.2 The Enhanced Color ON/OFF

Use the "←" and "→" to move the cursor to the icon shown as , then press "+" or "-" to toggle the ENHANCED COLOR setting on or off.

4.4.2.3 R, G, B Adjustment

Use the "←" and "→" to move the cursor to the icon shown as R, G, or B, then press "+" or "-" to adjust the RED, GREEN and BLUE settings respectively until you are satisfied with the result. A status bar will be displayed to let you know the current setting value.

4.4.3 To exit menu selections and return to original status

In the second main menu, press the menu again will end the OSD operation.

4.5 OSD Display Time

OSD display time is specified as follows.

Hot Key Items : It takes 4 seconds from latest control before the OSD disappears automatically.

Main Menu Items : It takes 20 seconds from latest control before the OSD disappears automatically.

4.6 Save the Setting

When the OSD display disappears, either manually or automatically, the final values of the control position until you are satisfied with the result. A status bar will be displayed to let you know the current setting.





5. DISPLAY POWER MANAGEMENT

5.1 Definition of modes

There are three modes of operation for the model. These are ON, SUSPEND and OFF.

ON Both horizontal and Vertical syncs are present and the monitor is in normal operation.

Suspend Horizontal or Vertical sync is inactive per VESA DPMS spec. and not operational. All parts of the monitor are disabled except for the Microcontroller and the Detection Logic Circuit.

OFF Both Horizontal and Vertical sync are inactive per VESA DPMS spec. and not operational and all parts of the monitor are disabled. This is the lowest possible power state of the monitor that maintains automatic on when the both Horizontal and Vertical signals are active again.

5.2 Power Consumption

Normal operation : 35 W

Suspend/off mode : < 8 W



6. STANDARD VIDEO MODES

RESOLUTION	PIXEL FREQ	HOR. FREQ.	VER. FREQ.	STANDARD TYPE
640X350	25.18M	31.47K	70.09	MS-DOS
640X350	~ 31.50M	37.86K	84.13	MS-DOS
640X400	25.18M	31.47K	70.00	MS-DOS
640X400	31.50M	37.86K	84.13	MS-DOS
640X480	25.18M	31.47K	50.00	MS-DOS
640X480	25.18M	31.50K	60.00	INDUSTRY STANDARD
640X480	30.24M	35.00K	66.67	MAC13
640X480	31.50M	37.90K	72.00	VESA
640X480	31.50M	37.50K	75.00	VESA
640X480	36.00M	43.30K	85.00	VESA
720X400	28.32M	31.50K	70.00	MS-DOS
720X400	35.50M	37.90K	85.00	VESA
800X600	36.00M	35.10K	56.00	VESA
800X600	40.00M	37.90K	60.00	VESA
800X600	50.00M	48.10K	72.00	VESA
800X600	49.50M	46.90K	75.00	VESA
800X600	56.25M	53.70K	85.00	VESA
832X624	57.28M	49.73K	74.55	MAC16
1024X768	80.00M	60.24K	75.02	MAC19
1024X768	65.00M	48.40K	60.00	VESA
1024X768	75.00M	56.50K	70.00	VESA
1024X768	78.75M	60.00K	75.00	VESA
1024X768	94.50M	68.70K	85.00	VESA



APPENDIX:

Specifications

* Panel Part :

- LCD:
15.0" 1024X768 TFT (Thin Film Transister)

* Monitor Part:

- **Effective Display Size:** (Diagonal)
15.0 inch (304mm x 228mm) — near 17" CRT > A4 paper size
- **Resolution & Display Colors:**
XGA 1024X768 120 HZ/ a-si TFT 64/256K Color
- **Pixel pitch:**
0.297mm RGB Stripe
- **Brightness(Lumiance):**
Two Lamps (CCFT) for Monitor 200 cd/m2 Type.
- **Contrast ratio:**
200:1
- **Response time:**
50ms Type
- **View angle:**
Left/Right +/- 65 deg.(H), Up/Down + 40 / - 60 deg.(V)
- **User controls:**
Front Panel — POWER LED, POWER Key, Adjust/Brightness (+/-), Volum (+/-), Left, Right, Menu
Rear Cover — Analog Video In, DC In Jack (+12V/+6V), USB In / Out
- **Signal Cable:**
1.8mm Long 15Pin VGA analog signal Cable





- **Signal Cable:**

Locally (Self) powered pure hub, supporting full speed USB 1 upstream (B Type Receptacle), 4 downstream (A Type Dualport Receptacle)

*** Power Supply:**

- 35 Watts Max.(ON), Power Down Mode < 8 Watts (SUSPEND/OFF)
- **AC/DC Adapter :**
Input: 100 - 240 Vac, 1A, 50-60Hz
Output : 12Vdc, 3A
6Vdc, 1A

*** Dimension & Weight:**

- **SIZE :**
Landscape : 380 x 376.5 x 170mm (W x H x D)
- **WEIGHT :**
Gross : TBD
Net : TBD



*** Regulation:**

- **Safety Standards**
UL, CUL, TÜV, T-Mark
- **EMI Standards**
CE, FCC CLASS B, VCCI II
- **Emissions Standards**
MPR II, TCO 1992 , TCO 1995 (Optional)
- **Energy Saving Standards**
EPA Energy Star™, VESA®, DPMS™



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Error: **limitcheck** Offending Command: **save**

Suggestions:

File may contain EPS graphic with too many grouped elements.
Ungroup elements or use fewer levels of grouping.

Pin 1	Red
Pin 2	Green
Pin 3	Blue
Pin 4	No Connection
Pin 5	Ground
Pin 6	Red Ground
Pin 7	Green Ground
Pin 8	Blue Ground
Pin 9	No Connection
Pin 10	Ground
Pin 11	No Connection
Pin 12	SDA
Pin 13	Horizontal Sync
Pin 14	Vertical Sync
Pin 15	SCL



APPENDIX B: PIN ASSIGNMENT

The pin assignment of the connectors is listed below for professional use only. Please do not attempt to alter the connections as this may seriously damage the monitor.

VGA Connector

Pin 1	Red
Pin 2	Green
Pin 3	Blue
Pin 4	No Connection
Pin 5	Ground
Pin 6	Red Ground
Pin 7	Green Ground
Pin 8	Blue Ground
Pin 9	No Connection
Pin 10	Ground
Pin 11	No Connection
Pin 12	SDA
Pin 13	Horizontal Sync
Pin 14	Vertical Sync
Pin 15	SCL

