

USER'S GUIDE

KLT - 1400A

VER 1.0

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Customer Service
KDS, USA Inc.
12300 Edison Way
Garden Grove, CA 92641

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 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 the dealer or an experienced radio/television technician for help.

Notice 1:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2:

Shielded interface cables, if any, must be used in order to comply with the emission limits.

DOC CLASS B NOTICE

This digital apparatus does not exceed Class B limits for radio noise emission for a digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

CHAPTER 1

INTRODUCTION

The analog LCD monitor incorporates the latest state-of-art Color liquid crystal display (LCD) technology providing wider view angle with higher contrast ratio for IBM compatible PC, Apple Macintosh and NEC PC98 VGA display

The monitor has many advantage characteristics: safe from electromagnetic wave, lights, sharp and slim. This makes the monitor extremely suitable in the environment of administration, transportation system, research, etc

The analog LCD monitor does not emit any X-ray radiation and magnetic emission greatly reduces the eyestrain and any potential health harmful bringing by CRT display. Moreover, our display controls on the behind side of the panel provides flexibility with simple controls. You could use these controls to adjust the display as your desire.

The Analog LCD monitor adopted the advanced active TFT module. It has 1024x768 pixels resolution, high contrast, wide viewing angle and the colors up to 262K.

FEATURES :

- Connects directly to any standard CRT monitor: R.G.B., H-SYNC / V-SYNC.
- Supports IBM compatible PC, Apple Macintosh, NEC PC98
- Supports DPMS for monitor power management
- Support DDC1 & DDC2B.
- On Screen Display (OSD) Contrast, Brightness, H-Position, V-Position, Tuning, Fine-tuning, Auto centering etc., Screen Size are adjustable through button.
- Built-in 14 inch C-MOS LCD panel.
- Resolution : up to 1024x768
- Color : 262K
- Dot pitch : 0.27 mm.
- Scanning frequency : 30Khz – 64Khz(H), 50Hz – 75Hz(V).
- Universal power supply : AC 100 – 240V allowed.
- Power consumption : Nomal : 42 Watt Max.
Stand-by : 4 Watt Max.
Suspend : 5 Watt Max.
Off : 3 Watt Max.
- Outside dimension : 14.9inch x 12.2inch x 6.4inch
- Weight : 4.7kg (net).

PRECAUTIONS

HANDLING

The monitor must be treated with caution and not be exposed to impact and shock. The monitor is made of fragile glass panel.

Do not expose to sharp shock.

Never touch the display area or rub on it with a hard, stiff object or tools because the panel is easily scratched, even your monitor is protected with one glass product.

CLEANING

The display area is highly prone to scratching. Do not use ketone type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clear the panel. It might permanently damage the panel.

The desirable cleaners are water, IPA (Iso Propyl Alcohol) or Hexane.

Don't let water or oil penetrate the monitor if the droplets are kept for a long time, Staining and discoloration may occur.

keep food particles and fingerprints away from the display area.

STORAGE

Do not store the monitor in temperature higher than 40°C (98°F) or humidity higher than 70% and no condensation.

Store in dark places away from sunlight and ultra violet (UV) radiation. Air bubble may develop within the glass panel, if this is not observed.

CHAPTER 2

INTRODUCTION

NOTE: We strongly recommend the use to set the resolution as 1024 x 768 60Hz, it will set the analog LCD monitor to the ultimized performance and visual effect.

PROCUCT PACKAE

Open the shipping cart on and check the contents. If any items are missing or damaged, contact your dealer immediately.

The package should include the following items.

- Analog Color TFT LCD Monitor
- Accessory Box :
 1. AC to DC adapter x 1
 2. Power Cord x 1
 3. User's manual x 1

INSTALLING THE MONITOR

The monitor is equipped with an auto-sensing power supply for voltage ranges from 100-120VAC/200-240VAC, 60/50Hz. Confirm the line voltage designation attached the under panel of the monitor.

FOLLOW THESE STEPS TO INSTALL THE MONITOR

1. Before you connect the cables, make sure that the monitor and system unit power switches are **OFF**.
2. Plug one end of the 15pin-signal cable to the rear of your system. Tighten the two screws on the cable connector, otherwise the screen will be abnormal operate.
3. Connect the power jack to the power cable witch located at rear of the signal connector through the AC/DC adapter.

The control key description

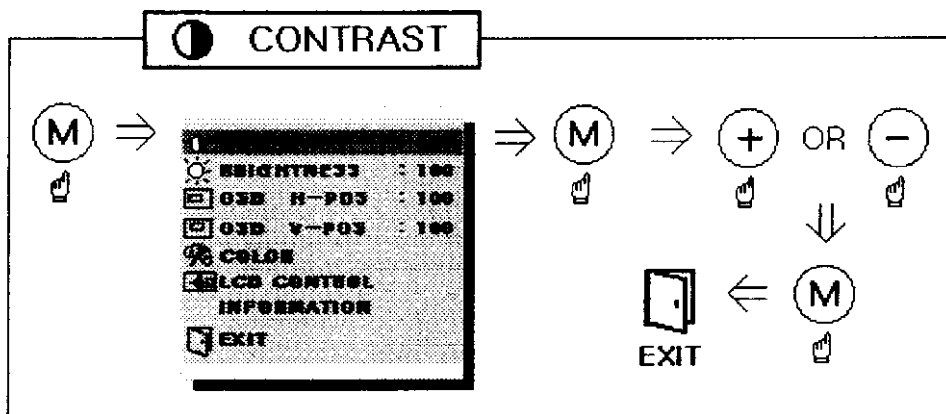
1. MENU : Activate the on screen display function.
2. + : Move to the previous item
3. - : Move to the next item.
4. RECALL : The preset of all function for current mode will be recalled.

Detail description

1. CONTRAST (1 – 100) CONTROL

Contrast adjusts foreground white level of screen image.

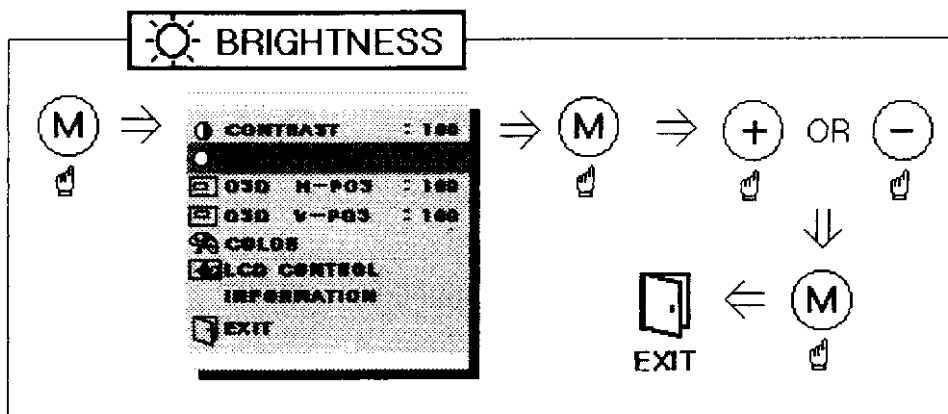
[+] increases contrast, [-] decreases contrast.



2. BRIGHTNESS (1 – 100) CONTROL

Brightness adjusts background black level of screen image.

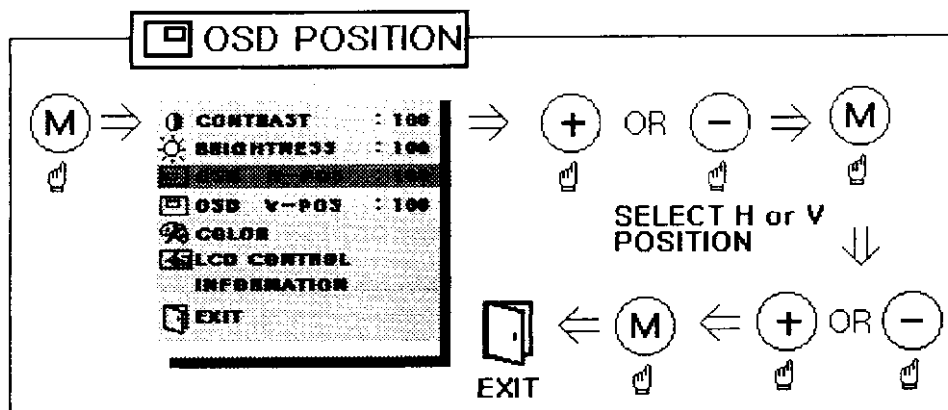
[+] increases brightness, [-] decreases brightness.



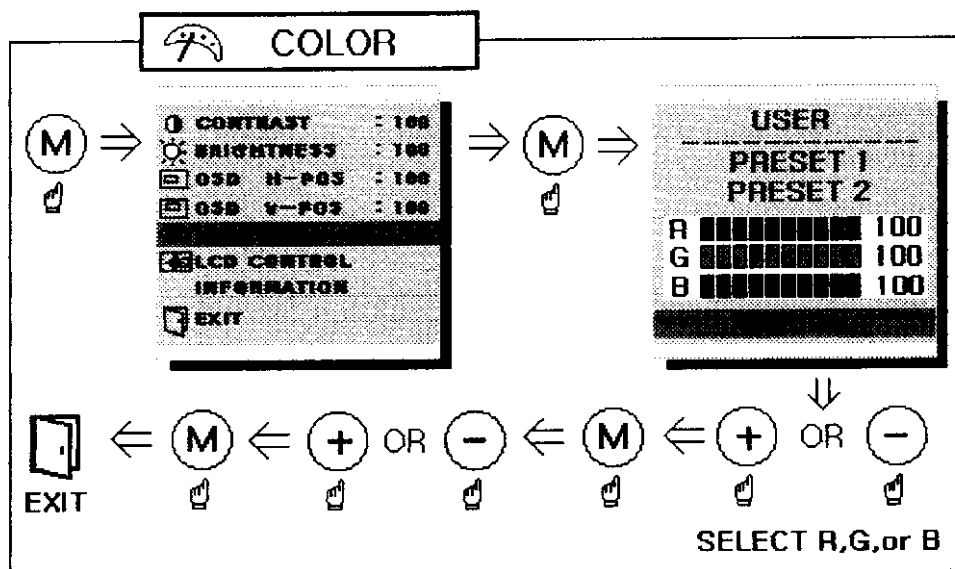
3. OSD POSITION (1 – 100) CONTROL(H&V)

OSD POSITION moves OSD (the On View menu or control screen currently selected) horizontally and vertical left or right.

[+] moves OSD to the right or up, [-] moves OSD to the left or down.



4. COLOR

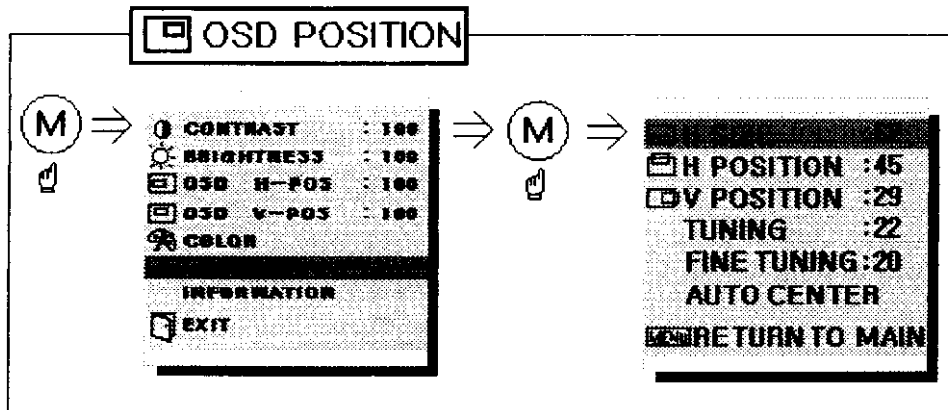


- 4-1. With the above menu on screen, highlight the preset colors you want (preset 1 or Preset 2), or individually adjust R, G, or B, by pressing [+], or [-]. A shaded box highlights the control.
- 4-2. To activate the highlighted control, press [MENU].
- 4-3. To adjust the activated control, press [+] or [-].
- 4-4. To de-activate the control, press [MENU]. The COLOR control is no longer highlighted. To adjust another control on

the color control menu,
repeat steps 4-1 ~ 4-4. To exit the COLOR screen, highlight
RETURN and press [MENU].

5. LCD CONTROL

LCD CONTROL displays the LCD Control Menu (show below).



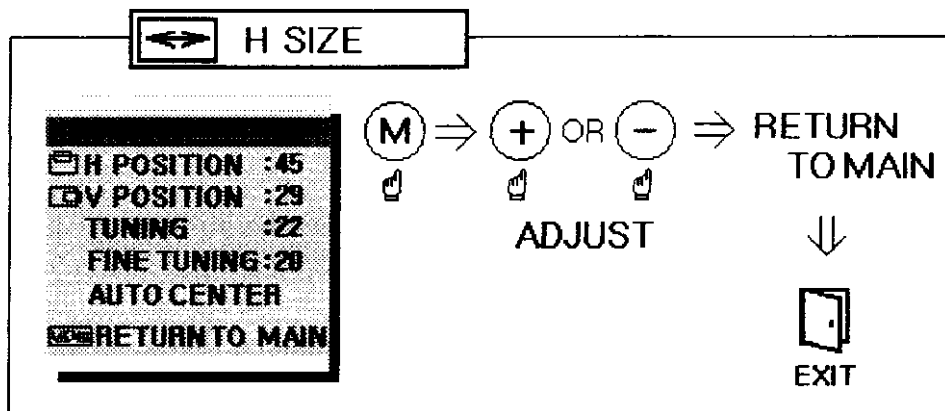
**** For the best image quality, do the following. ****

- I . For example, adjust your computer's graphic card so that it outputs a video signal $1024 \times 768 @ 60\text{Hz}$ then, use the following LCD Control Menu Options(shown below):
- II . Activate AUTO CENTER
- III . If necessary, make small adjustments using H SIZE and H POSITION until the screen image is completely visible. (The black border around the edge of the screen should barely touch the illuminated "active area" of the LCD.
- IV . Adjust FINETUNE so that the screen image looks focused, crisp, and sharp.

5-1. H SIZE.

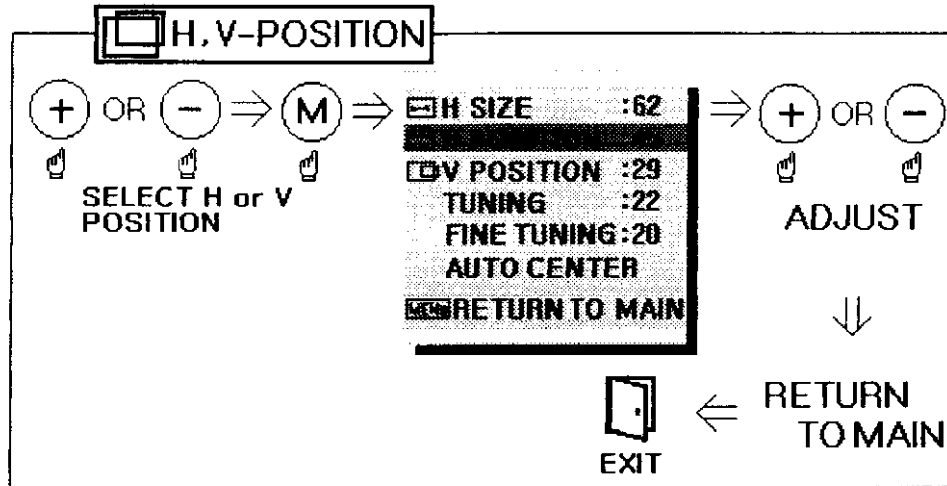
H SIZE(width)adjusts the horizontal size (width)of screen image.

[+] increases width of screen image, [-] decreases width.



5-2. H,V-POSITION

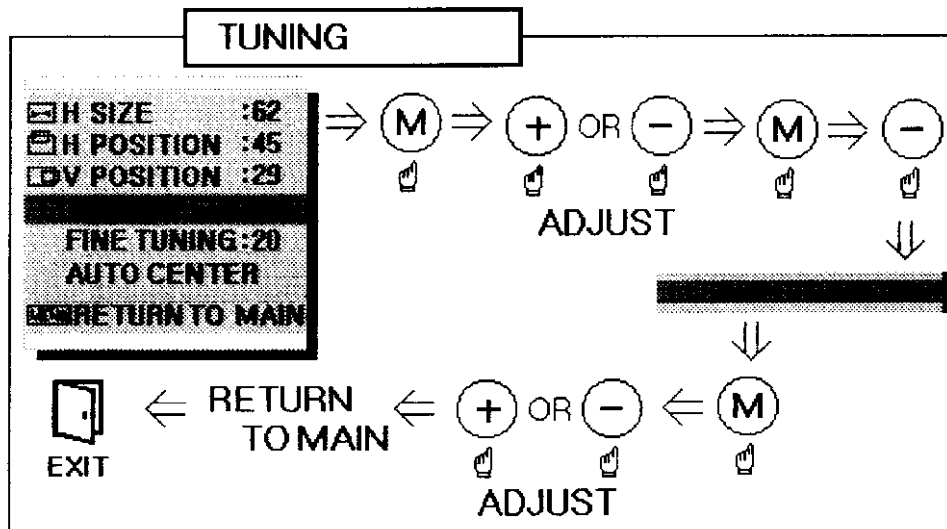
Moves screen image left, right, up, or down [+] moves screen image to right, or up, [-] moves screen image to left, or down.



5-3. TUNING

TUNING sharpens focus by aligning the illuminated pixels.

Press [+] or [-] until the screen image looks focused, crisp, and sharp.



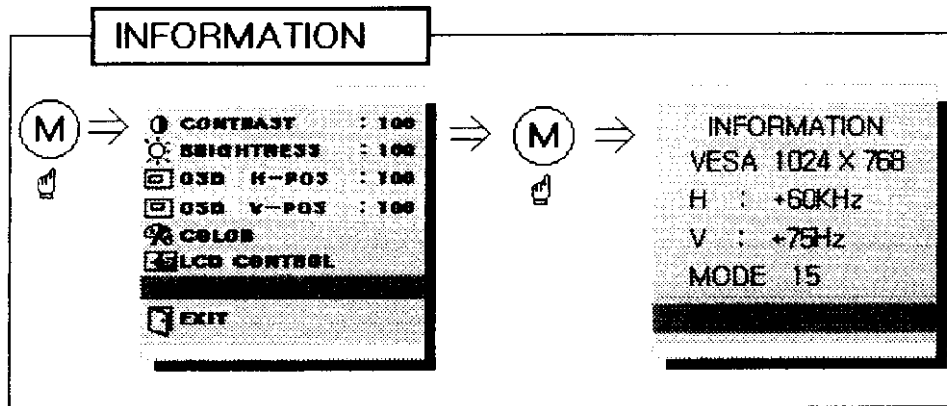
5-4. AUTO CENTER

Automatically centers and sizes the screen image.

Press the [+] or [-] to select ON.

5-5. INFORMATION

Displays the frequency signal input coming from the video card in your computer (horizontal scan, refresh rate, and polarity). See your video card user guides for more details.



Chapter 3

FACTORY PRESET TIMINGS

Timings shown below have been pre-adjusted for this KLT-1400A. For the best Performance, use the recommended setting shown *Italic*. For more information, see your graphics card user's guide.

Timing	Horiz. Freq. (kHz)	Vert. Freq. (Hz)	Polarity(H/V)
VGA 640 × 350	31.47	70.00	+/-
VGA 640 × 350	37.86	85.08	+/-
VGA 640 × 480	31.47	60.00	-/-
VGA 640 × 400	31.47	70.00	-/+
VGA 640 × 400	37.86	85.08	-/+
VESA 640 × 480	37.86	72.00	-/-
VESA 640 × 480	37.50	75.00	-/-
VGA 720 × 400	31.47	70.00	-/+
VESA 800 × 600	35.16	56.00	+/+
VESA 800 × 600	37.88	60.00	+/+
VESA 800 × 600	48.08	72.00	+/+
VESA 800 × 600	46.88	75.00	+/+
<i>VESA 1024 × 768</i>	<i>48.36</i>	<i>60.00</i>	<i>-/-</i>
VESA 1024 × 768	56.48	70.00	-/-
SVGA 1024 × 768	57.87	72.00	-/-
VESA 1024 × 768	60.02	75.00	+/+
MAC 640 × 480	35.00	67.00	-/-
MAC 1024 × 768	60.24	75.00	-/-

TROUBLESHOOTING

No power

- ✓ Flip the Power switch ON. The Power Light turns on.
- ✓ Make sure A/C power cord is securely connected to the power Jack and to a power outlet.
- ✓ Plug another electrical device (like a radio) into the power outlet to verify that the power outlet is supplying the proper voltage.

Power on but no screen image.

- ✓ Make sure the video cable attached with the KLT-1400A is tightly secured to the video output port on the back of the computer.
- ✓ Adjust the brightness and contrast.

Flickering

- ✓ Not enough power is being supplied to the KLT-1400A.
Connect the KLT-1400A to a different outlet. If a surge protector is being used, there may be too many devices plugged in.
- ✓ See Factory Preset Timings on page 16 with a list of refreshes rates and frequency settings showing the recommended setting for this KLT-1400A.

Wrong or abnormal colors.

- ✓ If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected. Loose pins in the cable connector could cause a bad connection.
- ✓ Connect the KLT-1400A to another computer.
- ✓ Check the graphics card for proper sync scheme (or sync polarities) to match the KLT-1400A's specifications.

Double (spilt) screen image.

- ✓ Make sure your graphics card is set to Non-Interlaced mode.

Entire screen image roll (scrolls) vertically

- ✓ Make sure the input signals are within the KLT-1400A's specified frequency range.
- ✓ Connect the video cable securely.
- ✓ Try the KLT-1400A with another power source.

Control buttons do not work

- ✓ Press only one button at a time.
- ✓ Press FUNCTION and [+] simultaneously to unlock control buttons.

APPENDIX

SIGNAL CONNECTOR PINOUTS

POWER JACK



1	Ground
2	+12V output

RGB SIGNAL CONNECTOR

Pin 1	RED
Pin 2	GREEN
Pin 3	BLUE
Pin 4	GND
Pin 5	GND
Pin 6	RED GND
Pin 7	GREEN GND
Pin 8	BLUE GND
Pin 9	N.C.
Pin 10	GND
Pin 12	GND
Pin 13	HORIZONTAL SYNC.
Pin 14	VERTICAL SYNC.
Pin 15	SCL

TECHNICAL DATA

Specifications

LCD	Type	14" diagonal viewabel screen TFT(Thin Film Transistor), Active Matrix Panel, 0.27mm pixel pitch
	Color Filter	R,G,B vertical stripe
	Colors	262,144
	Glass srface	Anti-glare coating
Viewing Angles	Left / Right	50 ° / 50 °
	Up / Down	40 ° / 40 °
Compatibleity	PC	IBM XT, AT, 386, 486, Pentium or PS/2 and compatibles(from VGA up to 1024 × 768 @ 60Hz NI.)
Refresh Rate	Macintosh	Power Macintosh (1024 × 768)
	Recommended	1024 × 768 @ 60Hz NI
	Maximum	1024 × 768 @75Hz NI
Connectors	Input Signal	15-pin mini D-sub
	Power	AC In
Power	Voltage output	AC 100-240V 50-60Hz
	Input	DC 13.5V 2.5A
	Consumption	42 watts (maximum)
Display Area		248.9(H) × 213.7(V)(14.0 inch)
Operating	Temperature	32°F to 104°F(0℃ to 40℃)
	Humidity	10% to 90% (no condensation)
	Altitude	To 10,000 feet
Storage Conditions	Temperature	-4°F to 140°F (-20℃ to +60℃)
	Humidity	10% to 90% (no condensation)