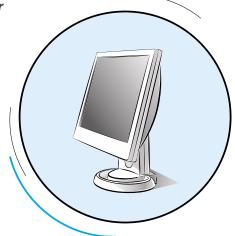
#### Ikegami

# User's Manua

TFT-LCD Color Monitor
IK-H750V / IK-H950V



energy

Printed on the recyclable paper

Printed in Thailand Part No. 942667020001 - 01

#### **INFORMATION TO USER:**

This equipment has been tested and found to comply with the limits of 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

#### **CAUTION**

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

#### **ENERGY STAR**

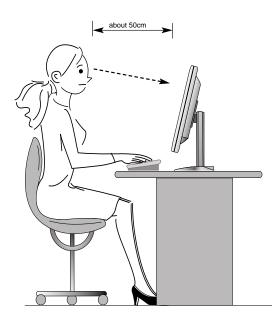
As an ENERGY STAR partner, Hansol Electronics Inc. has determined that this product meets ENERGY STAR guidelines for energy efficiency.

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Waming28

#### Good Posture Guide

- Place the monitor to face the user and then adjust the monitor angle.
- ◆ Take a break (for about 10 minutes) at every hour during the work with monitor.
- Refer to the following figure to take the correct posture.



- Look down the monitor below the horizon.
- Adjust the monitor to prevent reflection.
- Relax shoulders and arms, and sit back on the chair.
- Adjust the monitor stand to acquire required angle.
- Maintain the arms horizontally and place hands softly on the keyboard.
- Keep feet flat on the ground.

#### Parts







Signal Cable



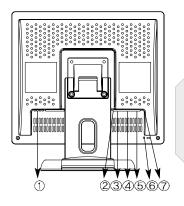
Stereo Cable(Option)



English - 3 2 - English

#### Connection to Signal Source

#### **Basic Connection**



- 1) Port for AC power cable.
- 2 Port for BNC output
- ③ Port for BNC input
- 4 Port for S-VHS input
- (5) Port for Audio input
- **6** Kensington Lock
- Port for signal cable from signal source.

#### < Power source connection >



- < Signal cable connection>
- ▶ General



▶ For Macintosh

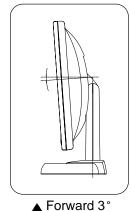


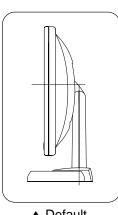
Refer to the table on the rear side of the optional Macintosh adapter and adjust DIP switch by the resolution.

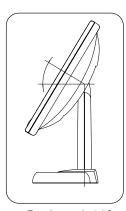
- 1. Use 220 V or 110 V. (Free Voltage)
- 2. Connect monitor and Signal Source via Signal cable
- 3. Power on the monitor and computer.
- 4. Connection is finished.

#### The range of control Angle

#### **▼** How to Adjust the Stand - 17"



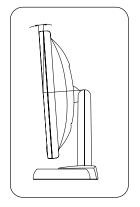


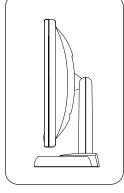


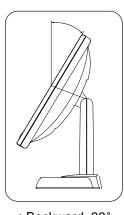
▲ Default

▲Backward 30°

#### **▼** How to Adjust the Stand - 19"





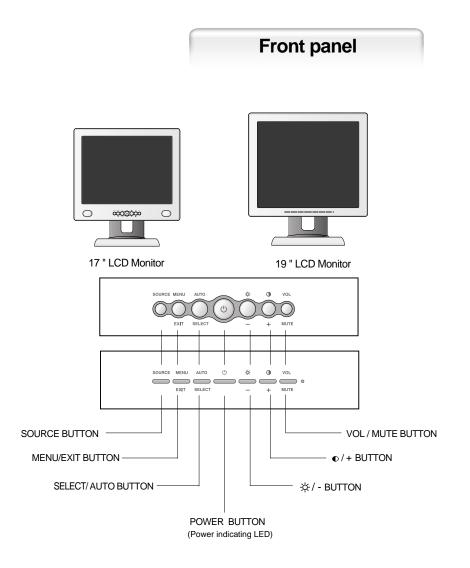


▲ Forward 5°

▲ Default

▲Backward 33°

#### Name and Function of Front



#### **Functions**

Power button

Power button is located in the lower center of the Front Bezel. You can push the button to turn on/off the power.

- Power Indicating LED
  - Dark : Power off
  - Green : Normal mode
  - Green blinking: DPMS mode or Check Signal Cable mode.
- ◆ On-Screen Display (OSD) Function Button OSD buttons on the front of bezel perform the following functions.
  - SOURCE: Monitor displays source of the signal in order ( PC → CVBS → S-VHS )
  - MENU/EXIT: Press this button to display menus. If you press this button when OSD is displayed, you can switch display to the previous menu and exit menu.
  - SELECT/ AUTO: Press this button, when OSD is not displayed, to perform automatic setting. (only PC Mode.) When OSD is displayed, You can select icons.
  - POWER: Power button.
  - +/♠, -/☆: By pressing these buttons when OSD is displayed, you can move cursor into the menus which you want.

After pressing the SELECT button, you can change gauge level or select submenus.

- When OSD is not displayed, you can adjust brightness or contrast.
- VOLUME / MUTE: Press this button for volume control. When control is displayed, you can control mute by pressing this button.

#### Power Management Feature

The monitor is equipped with a power saving circuit that confirms to the world-standard Display Power Manager Signalling (DPMS) mode of Video Electronics Standard Association (VESA). The power management feature requires that the video card of the computer should support DPMS function.

Status	LED Sign	Power Consumption	
Normal mode	Green ON	Normal Power	
DPMS mode	Green Blinking	3W or Below	
DPMS with Audio			
Mute ON		3W or Below	
Mute OFF		5W or Below	

No image is displayed with Green blinking.

Monitor is in power saving mode.

Use mouse or keyboard to release power saving mode.

No image is displayed without LED on.

Power cable plug must be pulled out.

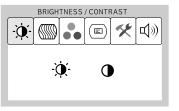
Check the power plug on monitor and on the wall.

"Out of range" displayed on the screen.

This message is displayed when the signal from video card exceeds the maximum frequency of the monitor. Readjust resolution and frequency in accordance with the monitor capacity. (Refer to Standard Signal Table)

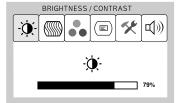
## Adjusting OSD -PC MODE

#### **Brightness / Contrast**



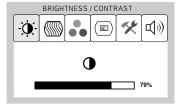
- $MENU \rightarrow + \rightarrow SELECT$
- 1. Press the MENU button to access main menu.
- 2. Use + to move Brightness / Contrast ICON.
- 3. Press SELECT button into the submenu.

#### **Brightness**



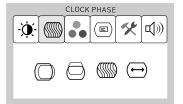
- $-+ \Rightarrow SELECT \Rightarrow -+$
- 1. Use + to move Brightness ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust the brightness of the screen.

#### Contrast



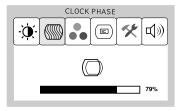
- + → SELECT → +
- 1. Use + to move Contrast ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust the contrast of the screen.

#### **Clock Phase**



- MENU → + → SELECT
- 1. Press the MENU button to access main menu.
- 2. Use + to move CLOCK PHASE ICON.
- 3. Press SELECT button into the submenu.

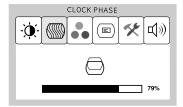
#### **Horizontal Position**



- + → SELECT → +
- 1. Use + to move H-Position ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust display left or right.

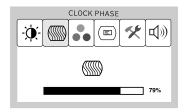
According to the characteristic of video card, control range can be changed.

#### **Vertical Position**



- $-+ \longrightarrow SELECT \longrightarrow -+$
- 1. Use + to move V-Position ICON.
- 2. Press SELECT button to select it.
- 3. Use ,+ to adjust display upward or downward.

According to the characteristic of video card, control range can be changed.

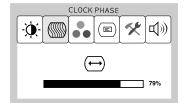


#### **Phase**



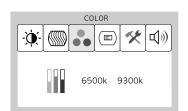
- 1. Press + to move Phase ICON.
- 2. Use SELECT button to select it.
- 3. Use + to correct fine trembling or Video noise.

#### Clock





- 1. Use \_+ to move Clock ICON.
- 2. Press SELECT button to select it.
- Press or + to remove vertical noise. (Adjusting clock phase is required after the adjustment of clock.)

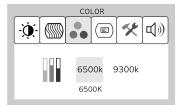


#### Color

MENU → - + → SELECT

- 1. Press MENU button to access main menu.
- 2. Use + to move Color ICON.
- 3. Press SELECT button into the submenu.

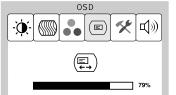
#### **Preset Color**



- − + → MENU
- 1. Use  $\pm$  to select the Mode 1, and Mode 2.
- 2. Press the Menu button to return previous state.

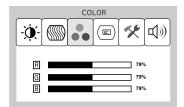
9300K : Slightly Bluish white. 6500K : Slightly Reddish white.

#### OSD H-Position



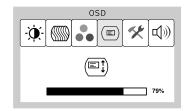
- $+ \Rightarrow SELECT \Rightarrow +$
- 1. Use + to move OSD H-Position ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust OSD left or right.

#### **User Color**



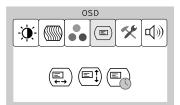
- $-+ \rightarrow SELECT \rightarrow -+ \rightarrow MENU$
- 1. Use + to move User color ICON.
- 2. Press SELECT button to select it.
- 3. Use + to increase or decrease each color.

#### **OSD V-Position**



- + → SELECT → +
- 1. Use ,+ to move OSD V-Position ICON.
- 2. Press SELECT button to select it.
- 3. Use ,+ to adjust OSD upward or downward.

#### **OSD**



- MENU → + → SELECT
- 1. Press MENU button to access main menu.
- 2. Use + to move OSD ICON.
- 3. Press SELECT button into the submenu.

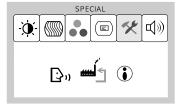
# 

#### **OSD Time**

- + → SELECT → - +

- 1. Use + to move OSD Time ICON.
- 2. Press SELECT button to select it.
- 3. Use \_+ to adjust OSD display time.
- 4. Press Menu button to return main menu.





- MENU → + → SELECT
- 1. Press the MENU button to access main menu.
- 2. Use \_+ to move Special ICON.
- 3. Press SELECT button into the submenu.

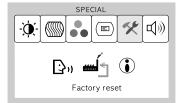
#### Language



MENU  $\rightarrow$  - +  $\rightarrow$  SELECT  $\rightarrow$  - +

- 1. Use \_+ to move Language ICON.
- 2. Press SELECT button to select it.
- 3. Use + to select language.

#### **Factory Reset**



- − + → SELECT
- 1. Use + to move the Factory Reset ICON.
- 2. Press SELECT button to return to default setting.

#### Information



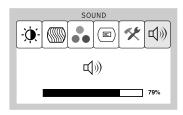
H:75.6KHZ V:75.4HZ MODEL: HCCTV 030927

- MENU → + → SELECT
- Use ,+ to move the Information ICON.
   Press SELECT button to select it.

You can know display information

\* According to the characteristic of video card, display information can be incorrect

#### Sound

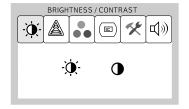


MENU → - + → SELECT

- 1. Use \_ + to decrease or increase volume level.
- 2. Press SELECT button to select it.
- 3. Use + to control volume.

# Adjusting OSD -CVBS, S-VIDEO MODE

#### **Brightness / Contrast**





- 1. Press the MENU button to access main menu.
- 2. Use + to move Brightness / Contrast ICON.
- 3. Press SELECT button into the submenu.

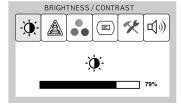


### Sharpness (CVBS,S-VIDEO Mode)



- 1. Press the MENU button to access main menu.
- 2. Use + to move Sharpness ICON.
- 3. Press SELECT button to select it.
- Use ,+ to adjust the sharpness.
   (Adjust the clearness of the screen)

#### **Brightness**





- 1. Use + to move Brightness ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust the brightness of the screen.

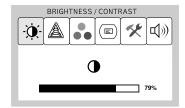
#### 

#### Color

MENU → - + → SELECT

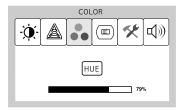
- 1. Press MENU button to access main menu.
- 2. Use \_+ to move Color ICON.
- 3. Press SELECT button into the submenu.

#### **Contrast**





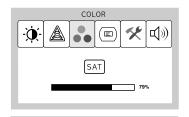
- 1. Use + to move Contrast ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust the contrast of the screen.



#### HUE (CVBS,S-VIDEO Mode)

- + → SELECT → - +

- 1. Use + to select the HUE ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust the HUE.

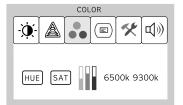


#### **Saturation**



- 1. Use + to select the Saturation ICON.
- 2. Press SELECT button to select it.
- 3. Use ,+ to adjust the saturation.

#### Preset Color



- − + → MENU
- 1. Use + to select the Mode 1, and Mode 2.
- 2. Press the Menu button to return to the previous state.

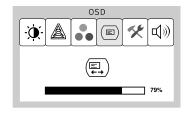
9300K : Slightly Bluish white. 6500K : Slightly Reddish white.

#### **OSD**



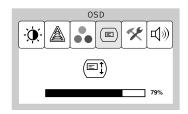
- MENU → + → SELECT
- 1. Press MENU button to access main menu.
- 2. Use + to move OSD ICON.
- 3. Press SELECT button into the submenu.

#### **OSD H-Position**



- $+ \rightarrow SELECT \rightarrow +$
- 1. Use + to move OSD H-Position ICON.
- 2. Press SELECT button to select it.
- 3. Use + to adjust OSD left or right.

#### **OSD V-Position**



- $+ \rightarrow SELECT \rightarrow +$
- 1. Use \_+ to move OSD V-Position ICON.
- 2. Press SELECT button to select it.
- 3. Use \_+ to adjust OSD upward or downward.

#### OSD Time



- + → SELECT → +
- 1. Use + to move OSD Time ICON.
- 2. Press SELECT button to select it.
- 3. Use ,+ to adjust OSD display time.
- 4. Press Menu button to return main menu.





- MENU → + → SELECT
- 1. Press the MENU button to access main menu.
- 2. Use ,+ to move Special ICON.
- 3. Press SELECT button into the submenu.

#### Language



- MENU  $\rightarrow$  +  $\rightarrow$  SELECT  $\rightarrow$  +
- 1. Use + to move Language ICON.
- 2. Press SELECT button to select it.
- 3. Use + to select language.

#### **Factory Reset**



1. Use - + to move the Factory Reset ICON.

→ SELECT

2. Press SELECT button to return to default setting.

#### Information



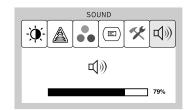
H: I5.7KHZ V:60.9HZ MODEL: HCCTV 030927

- MENU → + → SELECT
- 1. Use + to move the Information ICON.
- 2. Press SELECT button to select it.

You can know display information

\* According to the characteristic of video card, display information can be incorrect

#### Sound



MENU → - + → SELECT

- 1. Use + to decrease or increase volume level.
- 2. Press SELECT button to select it.
- 3. Use + to control volume.

#### Standard Signal Table

#### **▼** PC Supported Mode

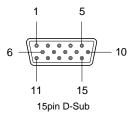
Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
VGA (720 X 400)	31.469	70.087	28.322
VGA (640 X 480)	31.469	59.940	25.175
VGA (640 X 480)	37.500	75.000	31.500
SVGA (800 X 600)	37.900	60.320	40.000
SVGA (800 X 600)	46.875	75.000	49.500
XGA (1024 X 768)	48.363	60.004	65.000
XGA (1024 X 768)	60.023	75.029	78.750
SXGA (1280 X 1024)	63.981	60.020	108.000
SXGA (1280 X 1024)	79.976	75.025	135.000
MAC (640 X 480)	35.000	66.667	30.240
MAC (832 X 624)	49.726	74.551	57.284
MAC (1152 X 870)	68.681	75.062	100.000

#### **▼** DVR Supported Mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
NTSC 1 (616 X 452)	31.469	59.940	24.5454
NTSC 2 (680 X 452)	31.469	59.940	27.000
PAL 1 (736 X 544)	31.250	50.000	29.500
PAL 2 (680 X 544)	31.250	50.000	27.000

#### Pin assignment table D-Sub Mini 15pin connector

Pin No.	Assignment	Pin No.	Assignment
1	Red Video	9	5V Input
2	Green Video	10	Ground
3	Blue Video	11	Ground
4	N.C	12	SDA
5	Ground	13	H.Sync
6	Red Video Ground	14	V.Sync
7	Green Video Ground	15	SCL
8	Blue Video Ground		
		•	



#### Specification

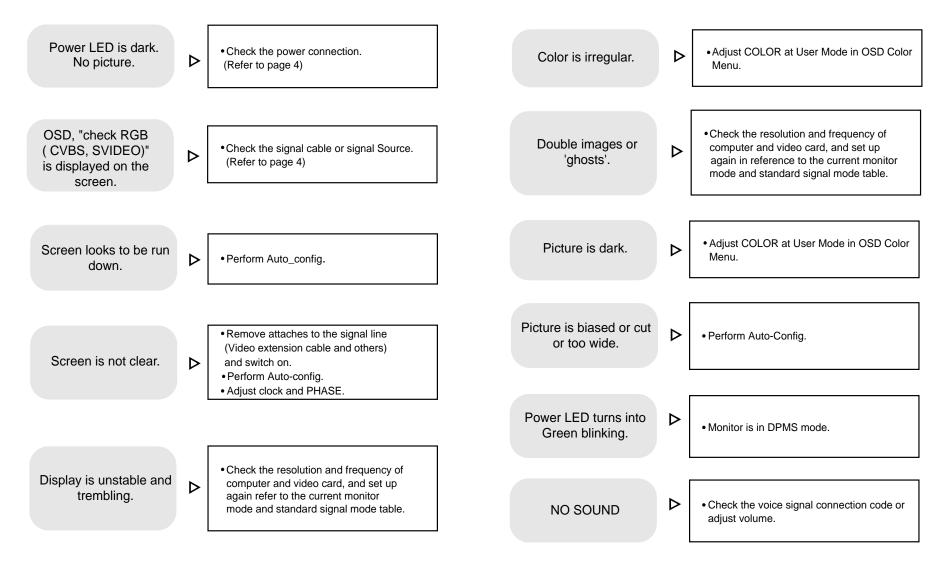
Model		<b>IK-H750V</b> (B17AC)	
LCD Panel	Туре	Amorphous active matrix super TFT LCD	
	Screen Size	43.2cm (Diagonal)	
	Maximum Resolution	1280 X 1024 @ 75 Hz	
	Pixel Range	0.264 mm X 0.264 mm	
	Display Colors	16.7M Color	
	Contrast Ratio	500 : 1	
1 41101	Viewing Angle	75° / 75° / 75° / 60° (Left / Right / Up / Down)	
	Response Time	13 msec	
	Luminance	300 cd/m <sup>2</sup>	
Synchro	Horizontal Frequency	79.9kHz (Max.)	
nization	Vertical Frequency	75 Hz (Max.)	
Power	Maximum	48W	
Consumption	Power Saving Mode	Under 3W	
	E . D .	SOURCE, MENU / EXIT, AUTO/ SELECT, POWER	
Control key	Front Part	-/☆ , +/ • , VOL/MUTE	
		Video : Analog RGB(0.714Vpp)75ohm,	
Input	Input	Composite in (BNC),S-VHS in	
Signal		Audio : Stereo in	
	Connector	15-pin Mini D-sub, Stereo, S-VHS, BNC *2	
Output Signal	Output	Video Composite out(BNC)	
Compati	IBM	VGA,SVGA,XGA,SXGA	
Compati bility		Normal&Ergonomic Modes	
Dirity	Video	NTSC/PAL standard	
Audio	Normal	1W/Ch	
Output	Max	1.5W/Ch	
Power Supply		Input: 100-240Vac (50/60 Hz), 0.6A	
Wall Mour	nt	VESA Standard	
Safety Standard	Safety Standard	UL, CE	
& EMI	EMI	FCC, CE	
Dimension	Size and Weight	380×176×368/5.8kg	

#### Specification

Model		<b>IK-H950V</b> (B19AC)	
LCD Panel	Туре	Amorphous active matrix super TFT LCD	
	Screen Size	48.3cm (Diagonal)	
	Maximum Resolution	1280 X 1024 @ 75 Hz	
	Pixel Range	0.294 mm X 0.294 mm	
	Display Colors	16.7M Color	
	Contrast Ratio	500 : 1	
1 41101	Viewing Angle	85° / 85° / 85° / 85° (Left / Right / Up / Down)	
	Response Time	25 msec	
	Luminance	250 cd/m <sup>2</sup>	
Synchro	Horizontal Frequency	79.9kHz (Max.)	
nization	Vertical Frequency	75 Hz (Max.)	
Power Consumption	Maximum	48W	
	Power Saving Mode	Under 3W	
Control Issue		SOURCE, MENU / EXIT, AUTO/ SELECT, POWER	
Control key	Front Part	-/☆ ,+/•, VOL/MUTE	
		Video : Analog RGB(0.714Vpp)75ohm,	
Input	Input	Composite in (BNC),S-VHS in	
Signal		Audio : Stereo in	
	Connector	15-pin Mini D-sub, Stereo, S-VHS, BNC *2	
Output Signal	Output	Video Composite out(BNC)	
Compoti	IBM	VGA,SVGA,XGA,SXGA	
Compati bility		Normal&Ergonomic Modes	
Dility	Video	NTSC/PAL standard	
Audio	Normal	1W/Ch	
Output	Max	1.5W/Ch	
Power Supply		Input: 100-240Vac (50/60 Hz), 0.6A	
Wall Mount		VESA Standard	
Safety Standard & EMI	Safety Standard	UL, CE	
	EMI	FCC, CE	
Dimension	Size and Weight	418 ×200 ×437.2 / 6.3kg	

24 - English - 25

#### Troubleshooting



26 - English - 27

#### Warning

To prevent damage or loss, please read this warning carefully.



 When connecting/disconnecting the plug, pull out the plug itself, and never pull the cord to prevent fire caused by short.



 To prevent electric shock, do not connect/disconnect the plug with wet hand.



 If you see smoke or smell something burning, stop using the unit, switch off the power, pull out the plug, and then contact your local service station.



• To prevent fire, do not connect a large number of equipments in a single line.



• To prevent fire and electric shock, pull out the plug in case of thunder and lightening.



• To prevent fire and electric shock, do not try to take the monitor apart or repair it yourself. Contact your local service station or customer service center for inspection, modification or repair.

# lkegami

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