

TFT LCD MONITOR

USER MANUAL

HV Series – Model: L70HSDI

7.0" SDI Monitor metal case.



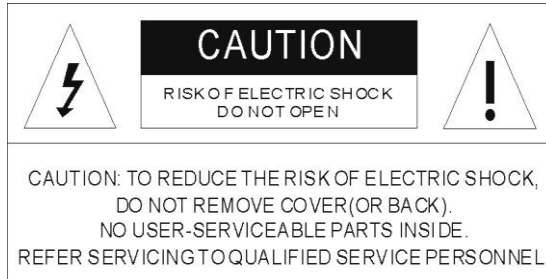
CE

Warning:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

Caution:



Explanation of Graphical Symbols



Danger: This symbol is intended to alert the user to the presence of un-insulated "Dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.



Warning: This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Precautions

Safety-----

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further.

Unplug the unit from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat built-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

Installation-----

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust or mechanical vibration.

The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

Cleaning-----

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

Safety Precautions

Federal Communications Commission (FCC) Statement

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 the dealer or an experienced radio/TV technician for help.
- You are cautioned that changes or modifications not expressly approved by that party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received including interference that may cause undesired

1. IR remote control

- (1) **Power:**
Press this button to turn the monitor on/off.
- (2) **Zoom:**
Press this button to toggle between the different picture formats:
Full/4:3(16:9)
- (3)  **Mute:**
Press this button to disable the sound.
Press this button again to turn the sound on again.
- (4) **PC/HD, AV1/AV2:**
You can select the appropriate signal source directly (PC/HD→ VGA/AHD-TVI).
- (5) **Item:**
Hot key for OSD adjustments of volume, contrast, brightness, hue, saturation, sharpness, and Red Green Blue.
- (6) **Source:**
To switch the video inputs AV/VGA/SDI. please use the IR remote control included in the delivery. This button is also used as “Enter” and “Select” function in the OSD menu. and to confirm your selected settings in the OSD menu.
- (7) **OK / Menu:**
Press this button to call-up the OSD menu.
This button is also used as “Exit”.
Note: The menu button is also used to return to the previous menu.
- (8) **Select ▲/▼:**
Directional buttons up/down.
- (9) **Display:**
Press this button to call-up screen information such as resolution, signal source, etc.
- (10) **Sleep:** Select the Automatic turn off time.

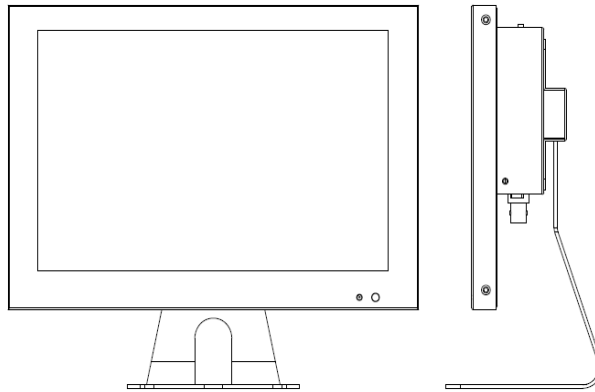


2 LCD monitor Mounting Guide

Desktop

Adjust the viewing angle of LCD to fit most comfortable monitoring status.

3 Monitor controls



(1). Power

Turn the monitor on/off.

LED: Green Monitor on

LED: Red Standby mode (no input signal)

(2./3). Adjust Up / Down ▲/▼

Increase or decrease the values in the OSD menu:

Up: Increase the values.

Down: Decrease the values.

(4). Item:

Hot key for OSD adjustments of volume, contrast, brightness, hue, saturation, sharpness, and Red, Green, Blue.

(5). Menu:

Press this button to call-up the OSD menu.

This button is also used as "Exit".

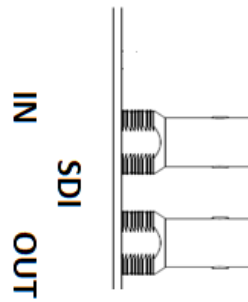
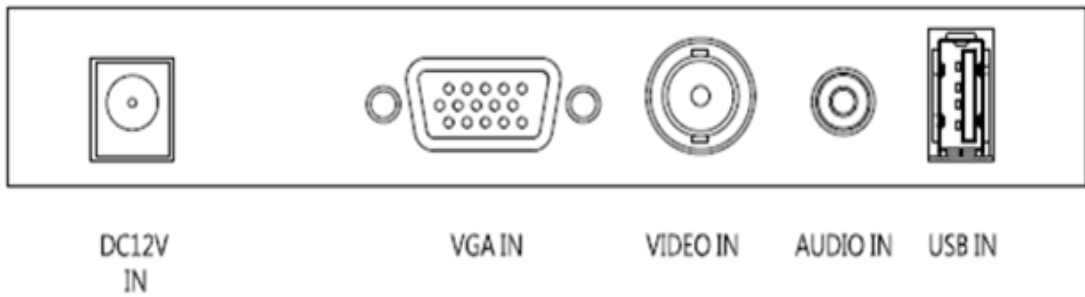
(6). Source:

To switch the video inputs, (or sub picture source in pip mode). AV/VGA/AHD-TVI

This button is also used as „Enter“ and „Select“ function in the OSD menu.

and to confirm your selected settings in the OSD menu.

4. Connections



NOTE:

Connections of Audio

	Audio
VIDEO	V
VGA	V

5. Monitor settings via OSD menu

Various monitor settings can be made using the OSD menu (On Screen Display).

Press the Menu/OK button to call-up the OSD main menu. Here you can make adjustments to the following items:

- Picture
- Audio
- OSD
- Function
- PC
- Geometry

Use the ▲/▼ buttons to toggle between the different items.

Press the Source button to select the appropriate item.

5.1 Picture

Use the ▲ ▼ buttons to select adjusts item, and press source button to confirm.

Then use the ▲ ▼ buttons to increase/decrease the values,
or use “source” button to change the values.

Press the menu button to return to the previous menu item.

Item	Description
Contrast	Use the ▲ ▼ buttons to increase/decrease the screen contrast.
Brightness	Use the ▲ ▼ buttons to increase/decrease the screen brightness.
Hue	Use the ▲ ▼ buttons to increase/decrease the hue.
Saturation	Use the ▲ ▼ buttons to increase/decrease the saturation.
Sharpness	Use the ▲ ▼ buttons to increase/decrease the sharpness.
Colour Temp.	Use the source buttons to select the colour temperature: User, Warm, Cool.
Scale	Use the source buttons to select the picture size: Full/ 4:3(16:9).
Picture Mode	Use the source buttons to select the picture mode: User, Standard, Soft, Vivid.

5.2 Audio

Use the ▲ ▼ buttons to select adjusts item, and press source button to confirm.

Then use the ▲ ▼ buttons to increase/decrease the values,
or use “source” button to change the values.

Press the menu button to return to the previous menu item.

Item	Description
Balance	Use the ▲ ▼ buttons to adjust the balance.
Volume	Use the ▲ ▼ buttons to adjust the volume.
Mute	Use the source buttons to change the Mute on/off.

5.3 OSD

Use the ▲ ▼ buttons to select adjusts item, and press source button to confirm.

Then use the ▲ ▼ buttons to increase/decrease the values,
or use “source” button to change the values.

Press the menu button to return to the previous menu item.

Item	Description
Language	Use the source buttons to select the language.
H Position	Use the ▲ ▼ buttons to position the picture horizontally.
V Position	Use the ▲ ▼ buttons to position the picture vertically.
Duration	Use the ▲ ▼ buttons to setting the OSD menu display time.

Halftone	Use the ▲▼ buttons to setting the OSD menu display halftone.
Blue Screen	Use the source buttons to change the blue screen on/off.
Image Reverse	Use the source buttons to change the image reverse on/off.
Restore	Press the source button to restore the factory settings.
Information	Firmware Version

5.4 Function

Use the ▲▼ buttons to select adjusts item, and press source button to confirm. Then use the ▲▼ buttons to increase/decrease the values, or use “source” button to change the values. Press the menu button to return to the previous menu item.

Item	Description
Noise Reduction	Use the source buttons to select the level of noise reduction: Off, Low, Medium, High.
MPEG NR	Use the source buttons to select the level of MPEG noise reduction: Off, Low, High.
DLC	Use the source buttons to change the Black Level Extension on/off.
Screen Saver	Use the source buttons to on/off the screen saver: [Screen protector-Anti blur]

5.5 PC

Use the ▲▼ buttons to select adjusts item, and press source button to confirm. Then use the ▲▼ buttons to increase/decrease the values, or use “source” button to change the values. Press the menu button to return to the previous menu item.

Item	Description
Contrast	Use the ▲▼ buttons to increase/decrease the screen contrast.
Brightness	Use the ▲▼ buttons to increase/decrease the screen brightness.
Colour Temp	Use the source buttons to select the colour temperature: Normal, Warm, Cold, RGB, User.

5.6 Geometry

Use the ▲▼ buttons to select adjusts item, and press source button to confirm. Then use the ▲▼ buttons to increase/decrease the values, or use “source” button to change the values. Press the menu button to return to the previous menu item.

Item	Description
H Position	Use the ▲▼ buttons to position the picture horizontally.
V Position	Use the ▲▼ buttons to position the picture vertically.
Clock	Use the ▲▼ buttons to Adjust image distortion appearing as vertical or “noise” on the screen.
Phase	Use the ▲▼ buttons to Adjust image distortion appearing as horizontal or “noise” on the screen.
Auto Adjust	Use the source buttons to Adjust the best image.
Screen Saver	Use the source buttons to on/off the screen saver: [Screen protector - Anti blur]

PC timing:

Mode	Resolution
1	800 x 600 @ 60
2	800 x 600 @ 72
3	800 x 600 @ 75
4	1024 x 600 @ 60

6. Special features

- Support SDI Input and Output.
- Support SDI 1080p/720p.
- Special Video Processor.
- NTSC/PAL Auto Switch.
- 3D De-interlace Technology.
- 3D Comb Filter Technology.
- Automatic Colour Control and Colour Killer.
- Luminance transient improvement(LTI),Chrominance transient improvement(CTI)
- Directional zoom engine.
- Build-in 2W speaker.
- Support IR remote controller.

7. Technical specifications

Monitor model	CH-L70AV-4HV-SDI
System	PAL / NTSC
LCD panel	7"
Visible area (mm)	153.6 x 90.0
Picture format	17:10
Max. resolution	1024 x 600
Pixel dot pitch (mm)	0.05 x 0.15
Colours	16.2M
Brightness	500 cd/m ² [LED]
Contrast	700 :1
Response time (Tr/Tf)	10/15 ms
View angle (U/D/L/R)	70/75/75/75
SDI Video input	1 x (BNC)
SDI Video output	1 x (BNC)
Video input	1 x Composite (BNCx1)
Audio input	1 x (3.5 ϕ phone jack)
PC input	1 x VGA input (D-Sub 15 pin)
USB input	1 x USB A type
Speaker	2 x built-in speaker (2 watt)
3D Comb Filter	Yes
3D De-Interlace function	Yes
OSD setting	Yes
Power input	AC 100-240V 50/60Hz, Adapter DC 12V/2A
Power consumption	Approx. 9.5 watt
Dimensions (WxHxD) mm	191.6x96.9x195.8
Weight	1.4 kg
Operating temperature	0° to 50° C

Subject to technical changes without prior notice. Error excepted.

Appendixes

Troubleshooting

The tables provided below include some problems that the user may encounter while using the display and the corresponding solutions. Please refer to the contents of this section prior to contacting service personnel.

Problem	Possible Causes	Solutions
No picture	<ol style="list-style-type: none">1. Is the power cable connected to the unit?2. Is the unit turned on?3. Is the signal cable connected to the unit?4. Is the unit in power saving mode?	<ol style="list-style-type: none">1. Make sure the power cable has been properly connected to the unit.2. Turn on the unit.3. Make sure the signal cable has been properly connected to the unit.4. Press any key on computer keyboard.
Strange colour	<ol style="list-style-type: none">1. Is the signal cable connected to the unit?	<ol style="list-style-type: none">1. Make sure the signal cable has been properly connected to the unit.
Picture distortion	<ol style="list-style-type: none">1. Is the signal cable connected to the unit?2. Is the video input signal within the unit's specified frequency range?	<ol style="list-style-type: none">1. Make sure the signal cable has been properly connected to the unit.2. Make sure the input signal is within the unit's specified frequency range.
Picture is too dim	<ol style="list-style-type: none">1. Have the unit's brightness and contrast settings been set to the lowest level?	<ol style="list-style-type: none">1. Adjust brightness and contrast
Only sound but no picture	<ol style="list-style-type: none">1. Is the connection of the input signal correct?	<ol style="list-style-type: none">1. Check connection of input signal.2. Make sure the signal cable has been properly connected.
Only picture but no sound	<ol style="list-style-type: none">1. Is the signal cable connected to the unit?2. Has the volume been set to the min level?3. Is the audio cable connected to the unit?	<ol style="list-style-type: none">1. Make sure the signal cable has been properly connected to the unit.2. Adjust the volume to an appropriate setting.3. Make sure the audio cable has been properly connected to the unit.

Please contact the customer service centre of your local dealer if you have any questions regarding the unit after reading the information provided above.