TFT LCD MONITOR

USER MANUAL

CH-LCD-420AV-1DE



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



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Precautions

Installation-----Should any liquid or solid object fall into the Do not install the unit in an extremely hot or humid cabinet, unplug the unit and have it checked place or in a place subject to excessive dust or by the qualified personnel before operating it mechanical vibration. any further. The unit is not designed to be waterproof. Exposure to rain or water may damage the unit. Unplug the unit from the wall outlet if it is not going to be used for several days or more. Cleaning-----Todisconnect the cord, pull it out by the plug. Never pull the cord itself. Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine as they might

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.

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

damage the finish of the unit.

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

Table Of Contents

•	Warning	1
•	Safety Precautions	2
•	Table Of Contents	3
•	Features	4
•	Operating Instruction	5
•	Connections	6
•	OSD Architecture	7
	OSD Function	
	OSD Function PC Mode	
	Factory Function Mode	
•	Connecting Device	11
•	Specification	12
•	Appendixes	13
•	Remote Control	14

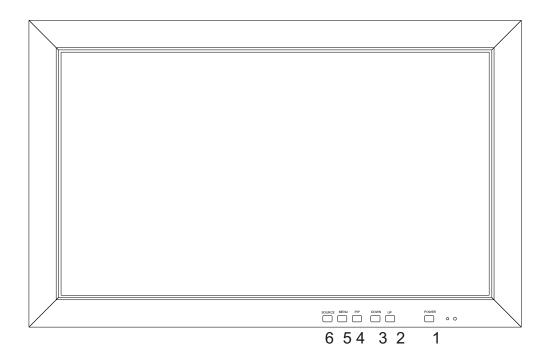
Features

CH-LCD-420AV-DE

- Compatible with VGA (640 x 480), SVGA (800 x 600).WXGA
- Support vertical refresh rate up to 75 Hz for VGA, SVGA, WXGA.
- Automatic or manual detection of separate synchronize and composite synchronize of VGA signal
- 42.02-inch LCD monitor with multiple inputs. (Composite video, Y/C and D-sub computer and DVI(option))
- High brightness of 500 cd/m²
- With 3D comb filter.
- High contrast 1500:1.
- High quality Horizontal and Vertical Scaling with 3D De-interlacing for Display
- Wide viewing of 178°, vertical and 178° horizontal.
- Fast LCD response time of 8ms (Gray to Gray).
- Luminance transient improvement(LTI), Chrominance transient improvement(CTI)
- Video input support NTSC / PAL standard.
- Built-in high precision Y/C Input signal.
- Video out support auto termination (75 Ohms).
- Build-in 5W+5W speaker.
- Support IR remote controller.
- VESA standard (200mm/200mm) bracket.
- Wall mountable capability.

Operating Instructions

CH-LCD-420AV-1DE



1. Power

Monitor power ON / OFF.

LED-Green Light -- Power On

LED-Red Light -- Standby mode(no signal input)

LED-No Light-----Power Off.

2. 3. Adjust Down Up

Increase or decrease the value on OSD menu.

Down: Decrease value on the OSD Menu Up: Increase value on the OSD Menu

4. PIP

PIP/POP/ function selection.

5. Menu

OSD menu selection.

6. Source

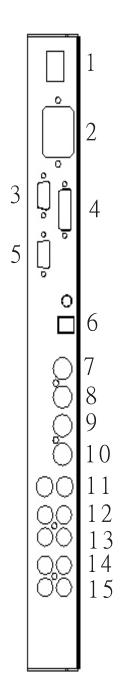
Select input signal from AV1, AV2, S-Video or VGA, DVI. <u>PIP/POP Function:</u>

- A: Please push Select key to open the pip/pop function then push Select key to select picture size.

 1/16-->1/9-->1/4-->1/2-->Full picture
- B: Push Down key to select the pip position. center, lower right, upper right, lower left, upper left.
- C: Push Up key to select the sub-picture source.

Connections

CH-LCD-420AV-1DE



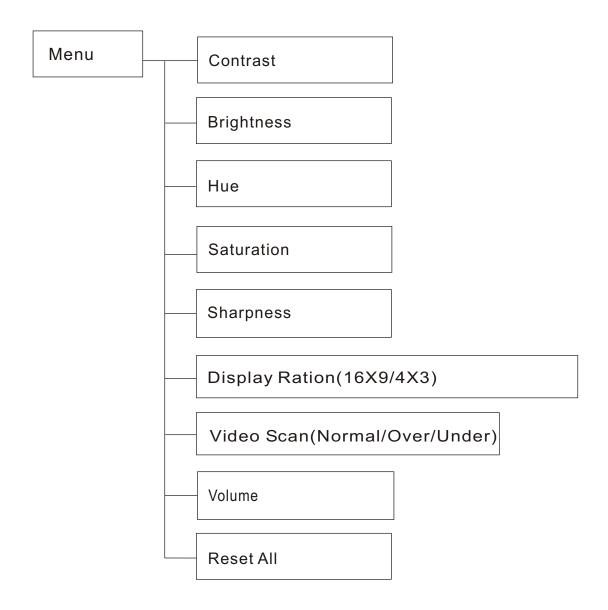
- 1 POWER SW
- 2 AC IN
- 3 Rs232-IN(Option)
- 4 DVI-IN
- 5 VGA-IN
- 6 DC12V/1A OUT(Option)
- 7 VIDEO 1 IN
- Composite signal Input for VIDEO1 VIDEO 1 OUT
- Video looping output for VIDEO 1
- 9 VIDEO 2 IN Composite signal Input for VIDEO 2
- 10 VIDEO 2 OUT Video looping output for VIDEO 2
- 11 Y/C IN/OUT(S-Video)
 Y/C separated signal Input/Out
- 12 AUDIO 1 IN(L,R)
 Audio Signal Input, this input is for Av1
- 13 AUDIO 1 OUT(L,R) Audio Looping output, for AUDIO1
- 14 AUDIO2 IN(L,R)
 Stereo Audio Signal Input, this input is for Av2, PC or Y/C (refer to Note below)
- 15 AUDIO 2 OUT(L,R) Audio Looping output, for AUDIO1

NOTE:
Connections of Audio

	Audio 1	Audio 2
VGA/DVI		V
AV1	\	
AV2		V
S-Video		V

OSD Architecture

OSD Function(CH-LCD-420AV-1DE)



Under AV1, AV2, S-Video mode:

Press the MENU button bring up the OSD menu.

Press UP/DOWN to increase or decrease value on the OSD menu.

Contrast:

Permits adjustment for contrast between light or dark areas of the picture.

Example:



Brightness:

Adjusts the overall picture shade and brightness. Tip: Use the Brightness to make details in the dark areas of the picture to be just visible, and Contrast to "brighten" the picture without causing noises and foreheads to turn white.

Hue:

Adjust all the colors on the screen, but is most noticeable to the eye in reds and yellows, and is also usually set for pleasing face tones.

Saturation:

Adds coloring to the black and white picture content (of a color signal), and is usually set for viewer's preference in color saturation.

Sharpness:

Sets the desired sharpening enhancement to the picture.

Display Ration:

To selecting 16X9 or 4X3

Video Scan:

Adjust the screen size to Normal/Over/Under scan.

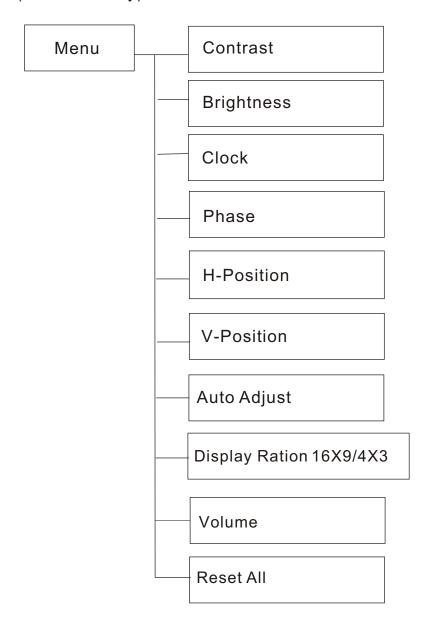
Volume:

Control built-in speakers' output Volumes

Reset All:

Returns all controls back to factory setting.

OSD Function (PC Mode Only)



Under Image mode:

Press the MENU button bring up the OSD menu.

Press UP/DOWN to increase or decrease value on the OSD menu.

Contrast: Adjusts fore ground white level of the screen image.

Brightness: Adjusts background black level of the screen image.

H-Position: Controls the picture horizontal position.

V-Position: Controls the picture vertical position.

Clock: Adjust the internal pix clock lag in order to optimize the screen image.

Phase: Adjust the internal clock time lag in order to optimize the screen image.

Auto Adjust: Automatically selects the optimal settings for image parameters.

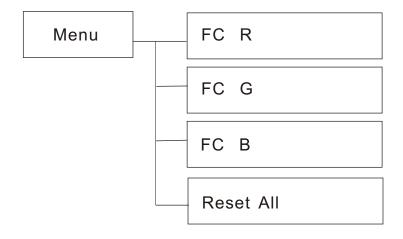
Display Ration:To selecting 16X9 or 4X3

Volume: Control built-in speakers' output Volumes

Reset All: Returns all controls back to factory setting.

Factory Function mode:

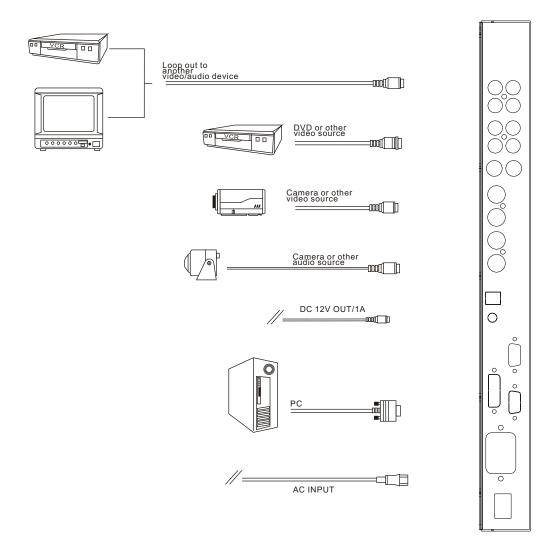
Push UP and DOWNkey into the Factory mode. then Push Power key on/off into the User mode.



- FC R
 Adjusts red color temperatures for users.
- FC G Adjusts green color temperatures for users.
- FC B Adjusts blue color temperatures for users.

Reset All

Returns all controls back to factory setting.



- Connect PC to Monitor through VGA connector as shown on the above picture
- b. Connect External device such as DVD or Game Player to Monitor as shown on the above picture
- c. Connect CCD Camera 1 and 2 to Monitor through Video Input 1 and 2 (BNC Connect) as showing on the above picture
- D. Support Resolution:

CH-LCD-420AV-1DE

640 x 480 60Hz	800 x 600 56Hz	1024 x 768 60Hz
640 x 480 72Hz	800 x 600 70Hz	1024 x 768 70Hz
640 x 480 75Hz	800 x 600 72Hz	1024 x 768 75Hz
	800 x 600 75Hz	1366 x 768 60Hz

Specification

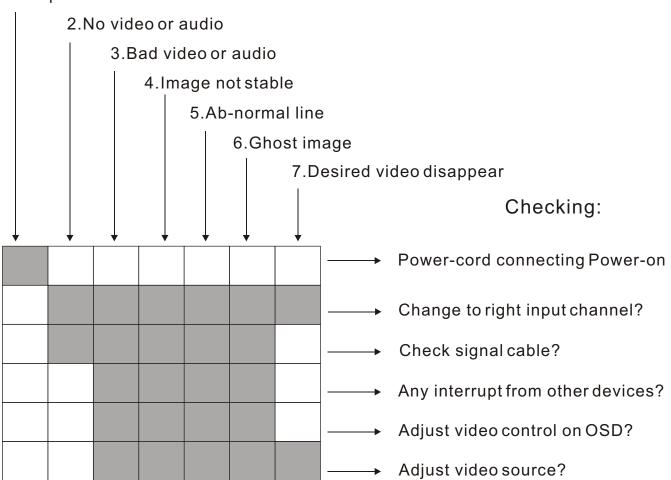
Model		CH-LCD-420AV-1DE	
LCD Panel		42.02" TFT	
Level		TV	
3D Comb Filte	r/3D De-interlace	Yes	
Display are	a	930.25x523.01mm	
Resolution		1366x768	
Brightness		500cd/ m²	
Contrast Ra	atio	1500:1 typ.	
Response 1	Time(G TOG)	8ms	
View angle	L/R	89(left),89(right)	
	U/D	89(up),89(down) 1.0 Vp-p Composite — BNCx2 Input	
Input Signa	I	BNC x 2 Output (Auto Termination) PC-IN D-Sub 15Pin(VGA)/ DVI-input S-Video 4 Pin Min Din x 1 Input	
DVI		└4 Pin Min Din x 1 Output YES	
Audio In/Out		RCA(R/L)X2set Input RCA(R/L)X2 set Input	
RS232		OPTION	
STAND		OPTION	
PIP/POP		YES	
Operating		OSD Control Function	
Power Supp	oly	AC90~260V	
Power Cons	sumption	245 W	
Dimension(w/o stand)		1018.3X611.3X121.7 mm	
Weight(N.W)		28kg	
Temperature		0~40°C	
Humidity		20%~80%	

Appendixes

A. TROUBLE SHOOTING

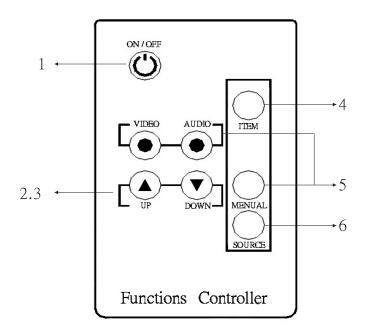
Problem:

1.No power



Package List

Α.	LCD Monitor	x 1
В.	Power Cord	x 1
C.	Accessory Kit	
	a.DB15-DB15 VGA Cable x1	x 1
	b.1/8" male to 1/8" male audio cable	x 1
D.	User Manua	x 1
E.	Remote Control	x 1



1. Power

Monitor power ON / OFF. At OFF mode, monitor will be at standby status.

LED- Green Light -- Power On Red Light -- Standby mode

2. 3. Adjust 🖒 / 🗸

Increase or decrease the value on OSD menu.

- ♠ Increase value on the OSD Menu
- \bigtriangledown Decrease value on the OSD Menu
- 4. Item(Option)
 PIP/POP Selection.
- 5. Menu OSD Menu control.
- 6. Source Select input signal from AV1, AV2, S-Video or VGA, DVI.