



17/19-INCH VALUE TFT-LCD MONITOR



USER MANUAL

Please read this manual thoroughly before use, and keep it handy for future reference.





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This Monitor was
Manufactured by ISO 9001
Certified Factory



SAFETY INSTRUCTION

Important Safety Instruction

- Read these instructions.
- 2. Keep these Instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug.
 - Apolarized plug has two blades with one wider than the other.
 - Agrounding type plug has two blades and a third grounding prong.
 - The wide blade or the third prong are provided for your safety.
 - If the provided plug does not fit into your outlet, consult an electrician for replacement of the bsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
- 11. Only use attachment/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture does not operate normally or has been dropped.

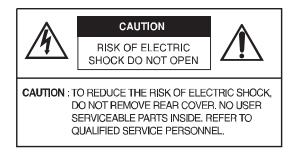


SAFETY INSTRUCTION

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed no the apparatus.
 - 14 Minimum distances(e.g. 10cm) around the apparatus for sufficient ventilation.

"WARNING - To reduce the risk of fire or electric shock, do not expose the apparatus to rain or moisture."

"The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus."





This symbol is intended to alert the user to the presence of uninsulated: dangerous voltage with in the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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



CAUTIONS

CAUTION

The power supply cord is used as the main disconnect device, ensure that the socket-outlet is located/installed near the equipment and is easily accessible.

ATTENTION

Le cordon d'alimentation est utillsé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile d'accès

CAUTION TO SERVICE PERSONNEL

POWER SUPPLY CORD IS USED AS MAIN POWER DISCONNECT DEVICE IN THIS PRODUCT. UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE REMOVING THE BACK COVER AND SERVICING

EMISSION CHARACTERISTICS TESTED BY SEMKO

THIS PRODUCT HAS BEEN TESTED AND HAS SHOWN COMPLIANCE WITH THE NATIONAL SPECIFICATIONS SUCH AS SWEDISH MPR 1990.10.(MPR II)

▶ NEVER REMOVE THE BACK COVER

Removal of the back cover should be carried out only by qualified personnel.

▶ DO NOT USE IN HOSTILE ENVIRONMENTS

To prevent shock or fire hazard, do not expose the unit to rain or moisture.

This unit is designed to be used in the office or home. Do not subject the unit to vibrations, dust of corrosive gases.

▶ KEEP IN A WELL VENTILATED PLACE

Ventilation holes are provided on the cabinet to prevent the temperature from rising. Do not cover the unit or place anything on the top of unit.

▶ AVOID HEAT

Avoid placing the unit in direct sunshine or near a heating appliance.

▶ TO ELIMINATE EYE FATIGUE

Do not use the unit against a bright back ground and where sunlight or other light sources will shine directly on the monitor.

▶ BE CAREFUL OF HEAVY OBJECT

Neither the monitor itself nor any other heavy object should rest on the power cord. Damage to a power cord can cause fire or electrical shock.

FCC RF INTERFERENCE STATEMENT

NOTE

This equipment has been tested and found to comply with the limits for a Class A 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.
- Only shielded interface cable should be used.

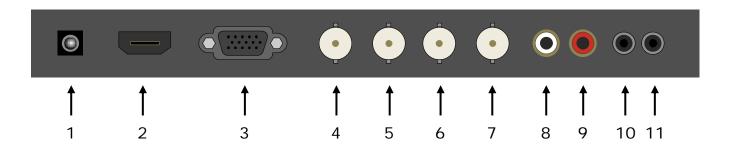
Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

▶ DOC COMPLIANCE NOTICE

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

CONNECTING The First Name in Security TERNAL EQUIPMENT

Rear Connection



- 1. DC 12V IN
- 2. HDMI IN
- 3. VGA (RGB-PC) IN
- 4. AV1 IN
- 5. AV1 OUT
- 6. AV2 IN
- 7. AV2 OUT
- 8 & 9. AUDIO L&R (AV1 & AV2)
- 10. PC STEREO IN (VGA)
- 11. TRIGGER IN



REMOTE FUNCTIONS

Remote Controller(Optional)

1. POWER(^(b))

Turns the power ON or OFF. There will be a few seconds delay before the display appears.

2. SOURCE

Selects an input source.

3. ARC (Aspect Ratio Control)

Selects a screen ratio.

4. APC (Auto Picture Control)

Selects a picture mode.

5. ACC (Auto Color Control)

Selects a color mode.

6. AV1

Selects AV1 mode.

7. AV2

Selects AV2 mode.

8. PC

Selects PC mode.

9. HDMI

Selects HDMI mode.

10. AUTO

Auto geometry adjustment in the RGB-PC source.

11. MUTE

Mutes the sound.

12. MENU

Activates and exits the On Screen Display.

13. EXIT

Exits the On Screen Display.

14. VOL(◀ & ▶)

Increases or decreases the level of audio volume.

15. UP/DOWN (▲/▼)

Moves upwards or downwards in the OSD menu.

16. ENTER

Enters an OSD submenu or accepts your selection

17. INFO

Displays the information about input source.

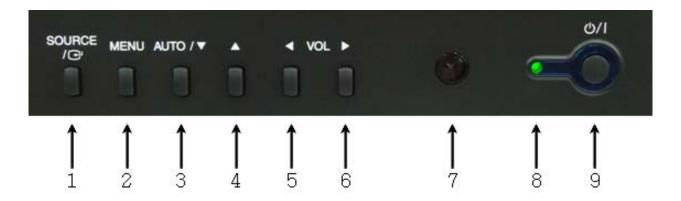
18. HOLD

Stops the Trigger function.





Front Key Control



1. SOURCE / ⊡

Selects an input source.

Enters a submenu or accepts your selection in the OSD menu.

2. MENU

Activates and exits the On Screen Display.

This button can also be used to move previous menu or status.

3 & 4. AUTO/▼, ▲

These buttons allow user to move the sub-menu of the activated function.

AUTO/▼: Auto geometry adjustment

5 & 6. ◀ VOL ▶

Adjust the volume and menu settings.

7. IR Sensor

Remote controller sensor.

8. POWER LED

Turned ON: Green color Turned OFF: LED Off

9. POWER ON/OFF($^{\circlearrowleft}$ / I)

Turns the power ON or OFF. There will be a few seconds delay before the display appears.



OSD Menu Description

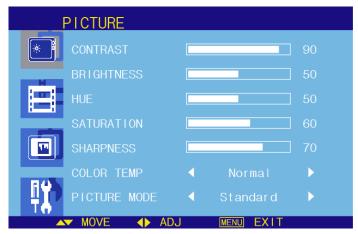
All picture, sound settings and setup for the monitor can be adjusted in the OSD menu.

(On Screen Display)

To adjust the OSD screen:

- 1. Press the **Menu** button to enter the OSD menu.
- 2. Press the ▲/▼ buttons to select the desired option. The selected option is highlighted.
- 3. Press the button to enter the submenu for adjusting items.
- 4. Change the value you wish to adjust by using the ◀/▶ buttons.
- 5. Press the ◀ button to exit the submenu for adjusting items.
- 6. Press the **Menu** button to exit the OSD menu.

A. PICTURE



Option	Function	Value
CONTRAST	Adjusts intensity of the image.	0 ~ 100
BRIGHTNESS	Adjusts brightness of the screen.	0 ~ 100
HUE	Adjust the hue of picture.	0 ~ 100
SATURATION	Adjust the saturation of picture.	0 ~ 100
SHARPNESS	Adjusts sharpness of the picture.	0 ~ 100
COLOR TEMP	OR TEMP Select the color temp of picture Normal, Warm, Cool	
PICTURE MODE	Select the picture mode of picture.	Standard, Cinema, Vivid



B. SOUND



Option	Function	Value
VOLUME	Adjust the level of audio volume.	0 ~ 100
MUTE	Mutes speaker sound.	Off or On

C. PC (Only PC Mode)



Option	Function Value	
CONTRAST	Adjusts intensity of the image. 0 ~ 100	
BRIGHTNESS	ESS Adjusts brightness of the screen. 0 ~ 100	
PC ADJUST	DJUST Adjusts the PC Mode. See the table on Next page	
COLOR MODE	MODE Adjusts the vertically picture position. See the table on Next page	
PICTURE MODE	Adjusts the vertical noise of screen image.	Standard, Cinema, Vivid



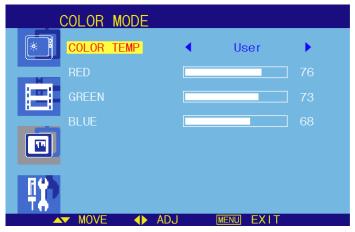
PC ADJUST



Option	Function Value		
AUTO ADJUST	Auto geometry adjustment.		
H POSITION	Adjusts the horizontally picture position.	0 ~ 100	
V POSITION	Adjusts the vertically picture position.	0 ~ 100	
CLOCK	Adjusts the vertical noise of screen image.	0 ~ 100	
PHASE Adjusts the number of horizontal picture elements. 0 ~ 100		0 ~ 100	
SEL AUTO	Selects the type of auto adjustment.	MANUAL ¹⁾ , AUTO ²⁾	

- 1) Manual: Operating the auto adjustment of the screen only the first time.
- 2) Auto: Operating the auto adjustment every time the resolution is changed.

COLOR MODE



Cool	Gives the white color a bluish tint.
Normal	Gives the white color a neutral tint.
Warm	Gives the white color a reddish tint.
User 1)	To manually adjust the color tones (Red, Green, and Blue).

1) Unavailable in AV1, AV2 and HDMI Mode (Only PC Mode).



D.SETUP



Option	Function	Value	
Languago	Sate the language of the OSD monu	English, German, French,	
Language	Sets the language of the OSD menu.	Italian, Spanish, Nederland and Korea	
OSD	Sets the OSD.	See the table on Next page	
Key Lock 1)	Locks all buttons of the monitor.	Off or On	
Ney Lock	Note: Use remote controller to unlock.	Oli di Oli	
		AV Mode: 16:9, 1:1, 4:3, 14:9,	
		Zoom1, Zoom2, Full	
		PC Mode: 4:3	
ARC	Sets the screen ratio.	HDMI Input: 4:3, Full 2)	
ARC		2) Full : These resolution are	
		supported when DTV signal of	
		HDMI is inputted.	
		(480p, 720p, 1080i/p)	
TRIGGER	See the table on Next page.		
RECALL	Resets the monitor settings to the factory default.		

1) How to unlock

- ① On the front key: Press the MENU and UP button at the same time over 3 seconds.
- ② On the Remote Controller: The Remote Controller operates well because the Key Lock function is only allowed for the front key of this product.

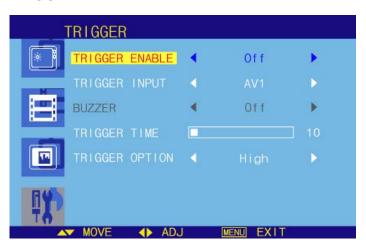


OSD



Option	Function	Value
H POSITION	Move OSD horizontally on screen right or left.	0 ~ 100
V POSITION	Move OSD vertically on screen up or down.	0 ~ 100
OSD TIMER	Adjust OSD displaying time.	5 ~ 60
TRANSPARENT	Adjust OSD transparent.	Off or On

TRIGGER



Option	Function Value	
TRIGGER ENABLE	Activates the trigger feature. Off or On	
TRIGGER INPUT	Selects the input source for the Trigger. AV1, AV2, RGB-PC or HDMI	
BUZZER	Not operating.	
	Selects the amount of time, in seconds,	
TRIGGER TIME	that the monitor displays the trigger Input 3 ~ 100	
	image.	
TRIGGER OPTION	Selects the type of physical trigger input.	See the table on Next page.



TRIGGER OPTION

N/C(N ormally C losed): The Trigger function is activated when the trigger cable is opened.	
N/O(N ormally O pened): The Trigger function is activated when the trigger cable is closed.	
High: The Trigger function is activated when the trigger signal is DC 2~5[V].	→
Low: The Trigger function is activated when the trigger signal is DC 0~0.6[V]. Note: In this case, trigger port has high status electrically, so the trigger cable has to have ground(or earth) status to be activated.	→ — — — — — — — — — — — — — — — — — — —

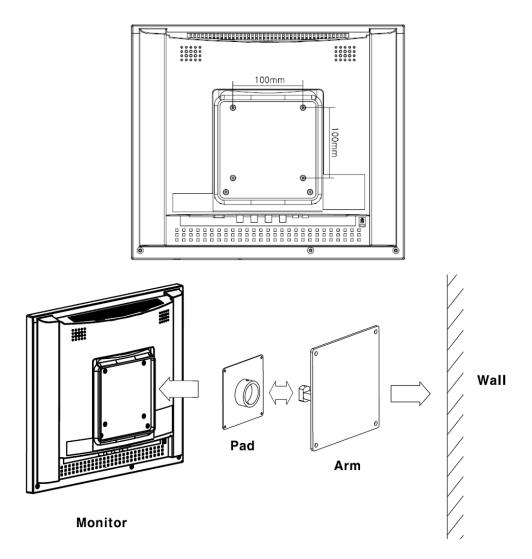


MOUNTING GUIDE

Using the VESA standard wall mount design and the 100mm hole pattern on the back panel to install the LCD monitor to the wall.

Wall-mount Installation (Option)

- 1. The Monitor fixing bracket to the monitor using the fixing screws provided.
- 2. The monitor fixing bracket assembled with monitor



*** Attention!**

You must use four M4x10 screws to assemble this monitor and the wall mount bracket.

*** WARNING!**

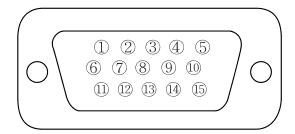
If user use longer than M4x10 it may cause the damage on the unit. Please follow instructed bolt size & length.

D-SUB CONNECTOR PIN ASSIGNMENTS

▶ Pin Assignments

Pin 1	RED VIDEO	9	
2	GREEN VIDEO	10	SIGNAL CABLE DETECT
3	BLUE VIDEO	11	GROUND
4	GROUND	12	SDA(for DDC)
5	GROUND	13	H-SYNC.(or H+V SYNC.)
6	RED GROUND	14	V-SYNC.
7	GREEN GROUND	15	SCL(for DDC)
8	BLUE GROUND		

D-SUB



▶ Accessories

- 1. Power cord
- 2. Power adaptor
- 3. User's manual
- 4. Cable (PC or HDMI)
- 5. Stereo cable (Option)
- 6. Remote controller (Option)
- 7. Batteries (Option)
- 8. Wall mount (Option)
- 9. Rack mount (Option)



POWER MANAGEMENT

Power Consumption

Mode	Power Consumption
Turned On	< 30W
Turned Off	< 1W

LED Indicator

The power management feature of the monitor is comprised of two stages:

Turned on(Green) and turned off(LED Off).

Mode	LED	Monitor Operation
Turned On	Green	Normal Operation
Turned Off	LED Off	Not Operation



SPECIFICATIONS

		17"	19"	
LCD Type	Туре	17" Diagonal AM-TFT (Active-Matrix)	19" Diagonal AM-TFT (Active-Matrix)	
	Pixel pitch(mm)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)	
	Brightness	250cd/ m² (Typical)	350cd/ m² (Typical)	
	Contrast ratio	1000:1 (Typical)		
	Viewing angle	170°/160° (H/V)		
	Response time	5ms (Typ., on/off)		
Reso	ution (H x V)	1280X1024 @60Hz		
Fı	requency	Horizontal: 31~64kHz, Vertical: 50~75Hz		
Input Signal		VIDEO (2ch input 1.0Vp-p, 75Ω terminated, loop-through out)		
		HDMI (High Definition Multimedia Interface)		
		VGA (RGB-PC)		
		TRIGGER IN		
		PC STEREO IN		
		AV(composite) Sound R & L		
	ive Display ea (H x V)	337.920 mm X 270.336 mm	376.32mm X 301.06mm	
Packing Dimensions		435mm X 235mm X 472mm	495mm X 235mm X 505mm	
(W x H x D)		(17.13" X 9.25" X 18.58")	(19.49" X 9.25" X 19.88")	
Weight	New	5.18Kg (11.4 lbs)	5.47Kg (12.03 lbs)	
	Gross	6.98Kg (15.36 lbs)	7.47Kg (16.43 lbs)	
Electrical Ratings		12V === 3A	12V === 3.5A	
	_	(100-240V~, 50/60Hz)	(100-240V~, 50/60Hz)	

▶ ▶ NOTE: Technical specifications are subject to change without notice.



TROUBLESHOOTING GUIDE

TROUBLE	TROUBLESHOOTING TIP	
No image on display screen	Check that power cord of the Monitor have been connected securely into wall outlet or grounded extension cable or strip.	
	Power switch should be in the ON position and LED is lit.	
	3. Check that the Brightness and/or the Contrast adjustments of the Display have not been turned down to minimum levels.	
"NO SIGNAL" message on screen	The signal cable should be completely connected to the video card/computer.	
	The video card should be completely seated in its slot and the computer is switched ON.	
Display image is not centered, too small or too large in PC mode	Push the down key in front side or Auto key in remote controller.	
Vertical or Horizontal noise is present in the picture	Adjust Clock and Phase in the OSD.	

WEEE Symbols

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.





MEMO	



