



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

- 1. 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 WITH EXTERNAL EQUIPMENT

A. BOTTOM PANEL CONTROL

1



- 1. HDMI2 IN
- 2. HDMI1 IN
- 3. DVI IN
- 4. VGA(D-SUB) IN
- 5. PC STEREO IN
- 6. AUDIO OUT(Speaker)
- 7. COMPONENT Y,Pb,Pr & SOUND L,R IN
- 8. DC 12V IN
- 9. TRIGGER IN

B. SIDE PANEL CONTROL

- 1. VIDEO1(AV1) IN
- 2. VIDEO1(AV1) OUT
- 3. VIDEO2(AV2) IN
- 4. VIDEO2(AV2) OUT
- 5. S-VIDEO(Y/C) IN
- 6. S-VIDEO(Y/C) OUT
- 7. AV1 & S-VIDEO AUDIO IN
- 8. AV1 & S-VIDEO AUDIO OUT
- 9. AV2 AUDIO IN
- 10. AV2 AUDIO OUT
- 11. TOUCH SCREEN USB CABLE
- 12. DC 12V ADAPTOR



REMOTE FUNCTIONS

C. REMOTE CONTROLLER (Option)

1. POWER(🙂)

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

2. SOURCE

Selects PC or video(AV1/AV2/S-Video/Component/HDMI/DVI/PC) sources.

3. AUTO

Auto geometry adjustment in PC Source.

4. HOLD

Stops the Trigger & Auto switching functions.

5. MUTE

Mutes the sound.

6. MENU

Activates and exits the On Screen Display.

7. EXIT

Exits the On Screen Display.

8. VOL(◀▶)

Increases or decreases the level of audio volume.

9. UP/DOWN

Moves to OSD menu.

10. SOURCE/SELECT

Accepts your selection or displays the current mode.

11. INFO

Input mode information Display.

12. STILL

Stops the picture.

13. PIP (Picture In Picture)

Activates PIP mode.

14. P.INPUT

Changes source of sub picture in PIP mode.

15. P.POS

Moves the position of sub picture for PIP mode.

16. P.SIZE

Changes the size of sub and main picture for PIP mode.

17. SWAP

Alternates between main and sub picture.

18. ARC (Aspect Ratio Control)

Selects screen ratio.

19. APC (Auto Picture Control)

Selects picture mode. 20. ACC (Auto Color Control)

Selects Colour mode.

21. S.SET

Selects Sound mode main input or sub input

22. PC

Selects PC mode(PC, DVI & HDMI).

23. AV

Selects AV mode.(AV1, AV2 & S-VIDEO).

24. COMP

Selects COMPONENT mode.



D. FRONT KEY CONTROL



1 / 2. ◀ VOL ▶

Adjust the volume and menu settings.

3/4. ▲ / ▼

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

The up(\blacktriangle) button is HOLD function and stop the Trigger & Auto switching functions.

5. SOURCE/SELECT

Select PC or video.

Select On Screen Display menu.

6. MENU/EXIT

Activate and exit the On Screen Display.

7. POWER ON/OFF(⁽⁾/ I)

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

8. IR Sensor

Remote controller sensor.

9. POWER LED

The power LED lights with green when the power is turned ON.

The power is turned off by pressing the power switch again and the power LED goes Red.

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 \blacktriangle/∇ 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 \blacktriangle/\lor buttons.
- 5. Press the ◀ button to exit the submenu for adjusting items.
- 6. Press the **Menu** button to exit the OSD menu.

A. Custom



Option	Function	Value
Brightness	Adjusts brightness of the screen.	0 ~ 100
Contrast	Adjusts intensity of the image.	0 ~ 100
Color ¹⁾	Adjusts color of the picture.	0 ~ 100
Tint ²⁾	Adjusts tint of the picture.	0 ~ 100
Sharpness 1)	Adjusts sharpness of the picture.	0 ~ 100

1) Unavailable in RGB PC, DVI, HDMI1 and HDMI2.

2) Unavailable in Component mode and PAL system.

B. Picture/Sound

Picture/Sound		Pic	ture/Sound
Picture ModeColor ToneMuteVolumeSizeNR3D Comb	Standard Normal Off 30 4 : 3 On On		Picture Moo Color Tone Mute Volume Size PC

Picture/Sound				
С	Picture Mo Color Tone Mute Volume Size	de	Standard Normal Off 30 4 : 3	
	PC			
_	/ ▼ :MOVE	:ENTER	MENU:RETURN	

Voluo

Option	Function	value
Picture Mode	Sets picture mode.	See table below
Color Tone	Sets color tone.	See table below
Mute	Mutes speaker sound.	Off or On
Volume	Adjust the level of audio volume.	0 ~ 100
Size	Display picture size.	See table below
NR ¹⁾	Reduces noise of the picture.	On or Off
3D Comb ²⁾	Activates the 3D comb filter.	On or Off
PC ³⁾	See table below.	

1) Unavailable in RGB PC, DVI, HDMI1 and HDMI2.

2) Unavailable in S-Video, RGB PC, DVI, HDMI1, HDMI2 and Component.

3) Only available in RGB PC.

Picture Mode

Ontion

Custom	Applies user selected values.(Brightness, Contrast, Color, Tint and Sharpness)
Dynamic	Provides enhanced contrast and sharpness.
Standard	Provides standard contrast and sharpness.
Movie	Is recommended for viewing film-based content.
Mild	Reduces contras and sharpness.

Color Tone

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	To manually adjust the color tones(Red, Green, and Blue).

Size

4:3 ¹⁾	Sets the image size to 4:3
Panorama	Sets the image to panorama
Zoom1	Expands the image size about two times to upward and downward
Zoom2	Expands the image size about one and half times to upward and downward
Wide	Sets the image size to wide
Under	Adjusts the image size to display resolution without overscan
1:1	Adjusts the image size to input resolution with overscan

1) Only available in RGB PC, HDMI1 and HDMI2.

PC

Picture/Sound			
	Auto Adjust		
-O-	Phase H Bosition	13	
	V.Position	50	
ើ	Frequency	18	
្រុង			

▲/▼:MOVE : ENTER MENU:RETURN

Option	Function	Value
Auto Adjust	Auto geometry adjustment.	
Phase	Adjusts the number of horizontal picture elements.	0 ~ 100
H-Position	Adjusts the horizontally picture position.	0 ~ 100
V-Position	Adjusts the vertically picture position.	0 ~ 100
Frequency	Adjusts the vertical noise of screen image.	0 ~ 100

C. PIP

PIP		
ж. В С	PIP Input Source PIP Mode PIP Size Position Swap Sound Select	Off Video2 PIP Size1 RB Main

Option	Function	Value	
PIP	Activates the PIP feature.	Off or On	
Input Source	Selects the input source for the PIP area.	See table below	
DID Mode	Enables 3 screen size.4:3 side by corner, 4:3 side by 4: 3,		
	and full screen side by side.		
PIP Size	Selects the size of PIP screen.	Size1, Size2 or Size3	
Position	Selects the position of PIP screen. Right of Bottom, Left of		
FUSICION	Bottom, Left of Top and Right of Top.		
Swap	Alternates between the main and sub picture		
Sound Select	Selects the sound source from either the Main or PIP	Main or Sub	

Input Source

	Main	Sub
Available combination	AV1, AV2 or S-Video	AV1, AV2 or S-Video
	AV1, AV2 or S-Video	RGB PC, DVI, HDMI1, HDMI2 or Component
	RGB PC, DVI, HDMI1, HDMI2	AV1, AV2 or S-Video
	or Component	
Unavailable	RGB PC, DVI, HDMI1, HDMI2	RGB PC, DVI, HDMI1, HDMI2
combination	or Component	or Component

D. Setup



▲/▼:MOVE : ENTER MENU:RETURN

Option	Function	Value	
Posot	Resets the monitor settings to their		
Reset	factory default.		
		English, French, Deutsch,	
Language	Sets the language of the OSD menu.	Italian, Spanish, Portuguese	
		or Nederland	
	Changes background of monitor menus.	Transportancy or On	
	(e.g. input source & information)		
Riuo Soroon	Displays a blue screen if the monitor	Off or Op	
Dide Screen	receives no signal.		
Kov Lock ¹⁾	Locks all buttons of the monitor.	Off or Op	
Rey LUCK	Note: Use remote controller to unlock.		
Trigger	See table below		
Auto Switching	See table below		

1) How to unlock

1 On the front key: Press the SOURCE/SELECT and MENU 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.

Motion Detection (Built-in PIR sensor; Passive Infra-Red)

Setup			
В	Trigger Enable Trigger Input Buzzer Trigger Time Trigger Option Display Type	Off Video1 On 10 High PIP&FULL	

▲/▼:MOVE : ENTER MENU:RETURN

Option	Function	Value	
Trigger Enable	Activates the trigger feature.	Off or On.	
		AV1, AV2, S-Video, RGB PC,	
Trigger Input	Selects the input source for the Trigger.	DVI, HDMI1, HDMI2 and	
		Component	
Buzzor	Activates an audible signal when the monitor	On or Off	
Buzzei	receives an trigger signal.		
Trigger Time	Selects the amount of time, in seconds,	3 ~ 100.	
rngger nine	that the monitor displays the trigger Input image.		
Trigger Option	Selects the type of physical trigger input.	See table below.	
	Selects the mode in which the monitor displays		
	the Trigger Input. The monitor takes one of the		
	following actions:		
	- PIP & FULL: Displays the Trigger Input in the PIP		
Diaplay Type	of the current video input source.		
Display Type	Note: The main video source must support the	FIF & FULL OF FULL.	
	Trigger Input source as a PIP option. See section		
	"Input Source" in "C. PIP".		
	- FULL: Switches the display to show the Trigger		
	Input in the full screen.		

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.	\rightarrow

Auto Switching



▲/▼:MOVE	:ENTER	MENU:RETUR

Option	Function	Value
Auto Switching	Activates the Auto Switching feature.	Off or On
Input Enable	Opens another menu and you can select the input sources to include in the Auto Switching cycle.	AV1, AV2, S-Video, RGB PC, DVI, HDM1, HDMI2 and Component
Time	Selects the amount of time, in seconds, that the monitor displays each selected input source.	3 ~ 100

MOUNTING GUIDE

Wall mounting (Optional)

The LCD monitor is suitable for wall mounting by using the VESA 100 standard wall mount (not included in the delivery).



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

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 (Built-in).
- 3. User's manual.
- 4. PC cable.
- 5. Touch Screen Install CD.
- 6. Trigger cable (Option).
- 7. Stereo cable (Option).
- 8. Remote controller (Option).
- 9. Batteries (Option).
- 10. Wall mount (Option).
- 11. Rack mount (Option).

POWER MANAGEMENT

This monitor features a power management system to "power down" upon receipt of the VESA DPMS(The display power management signaling) from a VESA DPMS video card.

The VESA DPMS-compliant video card performs this signaling system through not sending horizontal, vertical, or sync signal.

This monitor enters an appropriate mode through identifying each of the three modes of the signaling system.

POWER CONSUMPTION : < 50W

LED INDICATOR

The power management feature of the monitor is comprised of four stages: On(Green), Standby, Suspend, Active off(Red on/off 1 sec) and Unsupported mode(Green).

MODE	LED COLOR	MONITOR OPERATION
ON	GREEN	Normal Operation
STANDBY		Screen blanks after preset idle time
SUSPEND		And some electronic circuits or all
ACTIV OFF	T SEC	Circuitry in the monitor shut down.
UNSUPPORTES	OPEEN	Normal operation but the on screen
MODE	GREEN	Display will show error massage
POWER OFF	RED	Not Operation

SPECIFICATIONS

1. Monitor Specification

	19"
	19" Diagonal AM-TFT(Active-Matrix)
	Pixel pitch(mm) : 0.294(H) x 0.294(V)
LCD- Type	BRIGHTNESS: 250cd/ m ² (Typical)
	CONTRAST RATIO: 800:1(Typical)
	RESPONSE TIME: 5msec(Typical)
RESOLUTION (H x V)	1280X1024 @60Hz
FREQUENCY	HORIZONTAL: 31~ 64KHz, VERTICAL: 56-75Hz
	VIDEO (2ch input 1.0Vp-p, 75 Ω terminated, loop-throughout)
	S-VIDEO (1ch input (Y/C) , loop-throughout)
	COMPONENT (Y,Pb,Pr, Sound L/R)
	DVI (Digital Video Interface)
INPUT SIGNAL	HDMI1, HDMI2 (High Definition Multimedia Interface)
	PC RGB
	AV(composite) Sound in/Out
	PC Stereo Sound
	Audio Out
ACTIVE DISPLAY AREA (W x H)	376.32mm X 301mm (14.82" X 11.85")
PACKING DIMENSIONS (W x H x D)	477mm X 543mm X 205mm (18.78" X 21.38" X 8.07")
WEIGHT	Net Weight : 7.17Kg (15.81 lbs)
WEIGHT	Gross Weight : 8.94Kg (19.71 lbs)
ELECTRICAL RATINGS	12V ====3.5A

NOTE : Technical specifications are subject to change without notice.

SPECIFICATIONS

2. Touch Screen Specification

	Specification		
		Voltage	DC 5Volts
	Rating	Operating Temperature Range	-20℃ to 70℃
		Storage Temperature Range	-40℃ to 85℃
	Ontion	Transmittanaa	More then 90%
	Optical	Transmittance	(subjected to surface finishies)
		Resistanse between Leads	50~300 Ω
	Flootrical	Linearity	Less than 1.5%
	Electrical	Insulation Resistance	10MΩ or more at DC 25V
TOUCH		Chattering Time	Less than 3ms
SCREEN	Mechanical	Input Methed	Bared hand or finger,
SCREEN			conductive metal
		Surface Hardness	ЗН
		High Temperature Test	120 hours at 85 $^{\circ}\mathbb{C}$
	Reliability	Low Temperature Test	120 hours at -50 $^\circ \! \mathbb{C}$
-		Humidity Test	120 hours at 80 ${}^\circ\!$
	Durability		Touch 100 million Times
		Touch Life	(Ø2 Manuscript Pen)
			(force: 250gf, speed: 2cycles/sec)
	Interface	USB	2.0 Compliant

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. 	
	 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	creen 1. 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



MEMO

MEMO

MEMO

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