CAMOS

WIDE TFT LCD COLOR MONITOR series (17", 19", 22")

MM-1750H / MM-1950H / MM-2250H

INSTRUCTION MANUAL

Thank you for purchasing this product. For proper usages and application, Please read this instruction manual thoroughly.





* Design and specifications are subject to change without notice.

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SAFEGUARD INSTRUCTIONS

Please read the "Safety Rules" carefully before using this product. Following the safety rules prevents users from damages related with the misuse of the product. It is very important to follow these safety rules. We state "Caution" and "Warning" to clarify any potential risk for a damage associated with the misuse of the product.

СА		This information is for preventing damage or shorten the life time of the products.	
WA		This information is for preventing bodily harm or even death and use should follow this safety rules.	
_			
Δ			
\bigcirc	Should insta - It may caus	II while power off. (After install products, connect DC jack) e to electronic shock or malfunction.	
\bigcirc	While stop d - It may cause	riving (parking), set the car in motion. e battery discharge.	
\oslash	Do not use multi socket or extended adaptor. - It may cause unexpected heating, fire and malfunction.		
\oslash	Unplug product when do not use for a long time. - It may case fire by short circuit due to heating.		
\oslash	Do not place	near magnet. e malfunction and trouble.	
\oslash	Do not push - It may caus	a LCD panel. e LCD broken.	
\oslash	In case of inserting battery, attend to polarity and insert according to direction. - When wrong inserting, it may cause fire, damage by explsion.		
\oslash	Before instal emit heat.	I the body, take enough place at least more than 15cm from the wall to	
\bigcirc	The battery f lar model. Us	for remote controller is not rechargeable and should replace same or simi- sed battery may cause environmental pollution, so trash it carefully.	



Do not put the product in place where sudden temperature increasing and should use on optimum voltage, temperature and humidity. - It may cause to electronic shock or malfunction.

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Do not get product wet and operate with wet hands. - It may cause to electronic shock or malfunction.

Do not place near of air bag effective range. - It may cause malfunction of air bag or accident, injury due to hitting monitor by air bag.

Keep clean dust on power socket. - It may cause electronic shock and fire by bad connection.

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Do not pull cord with a jerk, should catch a plug and pull. Do not use damaged cord. - It may cause cord malfunction, electronic shock and fire.



When clean exterior, power off and wipe with dry cloth. - Wet cloth may cause a electronic shock.

Do not clean exterior with volatility or oily solvent. Neither keep touching rubber and plastic for long time. - It may cause change of surface, fall of paint, malfunction and fire.

Do not place where vibration and shock. - It may cause throw down and then malfunction and accident.

Do not put metals as like pin and needle into hole and chink of grill, speaker. - In case of inserting them, stop to operate, it may cause electronic shock, fire and malfunction.

Do not use in problem condition as like smoking, smell something burn. - It may cause fire. Stop to use and make inquiries to agency.

Do not disassemble, repair and remodeling. - It may cause malfunction and injury, can not get warranty. - Make inquiries to agent for repair and checkup.

1 FEATURE

- Digital TFT Wide LCD with high resolution and low reflection
- All electronic control functions
- All functions are displayed on screen (OSD function)
- Auto recognition function of Video Signal system (PAL / NTSC / AUTO)
- 7 languages on OSD menu (ENG-FRA-DEU-ESP-ITA-JPN-KOR)
- Mode selection (HDMI AV1 AV2)
- Built-in speaker (3Watt x 2)
- Low power consumption

2 BOX CONTENTS

* BASIC CONTENTS



* OPTION



3 FUNCTION OF EACH PART

MONITOR



1. LCD SCREEN	LCD SCREEN		
2. SPEAKER	STEREO SPEAKER (3W x 2)		
3. MENU	Selecting menu and changing function		
4. SELECT	Button to select menu and mode		
5. ADJUST	Adjusting menu level or volume		
6. MODE	Change mode (HDMI / AV1 / AV2)		
7. REMOTE SENSOR	Sensor for receiving signal from the remote control		
8. STAND-BY LED	Displays stand-by and ON/OFF		
9. POWER	Power ON/OFF		



1. POWER	Power ON/OFF button		
2. MODE	Change mode (HDMI - AV1 - AV2)		
3. UP/DOWN	Moving up/down on menu		
4. ADJUST/VOLUME	Adjusting menu level or volume		
5. MENU	Selecting menu and changing function		
6. MUTE	Mute ON/OFF		
7. RECALL	Displaying the current mode and volume level		
8. AUTO PIC	Auto screen setting (USER-DYNAMIC-NORMAL-MILD)		

OPERATION

1. SCREEN ON/OFF





- 1. Press the POWER button on the monitor front or remote controller, the screen turns on. Press the POWER button again, the screen turns off.
- 2. If the power is connected, the S/BY LED is on. (to show power status) When the screen is on, the S/BY LED is off.

2. VOLUME CONTROL





- 1. To control volume, press the adjust buttons(◀►) on the monitor front or volume button on the remote contoller. (0~100)
- 2. This function is not working on "NO SIGNAL" status.

3. MODE

* A function to change external video signals to HDMI, AV1, AV2.





- 1. Press the MODE button on the monitor front or remote control, the mode changes. (HDMI AV1 AV2)
- 2. Select input mode and press the MENU button on the monitor front or remote controller then mode is changed.



4. MENU





- 1. Press the MENU button on the monitor front or remote control, the menu list is displayed. Press the MENU button again, it is disappeared.
- 2. Select a menu item by **A v** button on the monitor front or remote controller, then press ▶ button.
- 3. Adjust the value by pressing **I** button, then press MENU button to fix it.
- * Menu item is variable depending on current output mode.

HDMI mode

1. PICTURE

PICTURE	BRIGHTNESS	50+
SETUP	CONTRAST	50+
📢 sound		
1) BRIGHTNESS	Adjust the brightness of the screen.	

2) CONTRAST

Adjust the contrast of the screen.

2. SETUP

PICTURE	LANGUAGE	►ENGLISH
SETUP	OSD TIME	10 - +
📢 sound	TRANSLUCENT	0 - +
	OSD H POS.	50 - +
	OSD V POS.	50 - +
	FACTORY RESET	►OFF

1) LANGUAGE Change the OSD language. (ENG-FRA-DEU-ESP-ITA-JPN-KOR) 2) OSD TIME The number of seconds that the OSD will remain visible before disappearing. (1~60sec.) 3) TRANSLUCENT Change the opagueness of the background of the OSD. (0~100%) 4) OSD H POS. Move the OSD window to the horizontal direction. 5) OSD V POS. Move the OSD window to the vertical direction. 6) FACTORY RESET A factory default reset will clear all of OSD information.

3. SOUND

PICTURE	MUTE	►OFF
SETUP	VOLUME	10+
sound	TREBLE	50+
	BASS	50+

- 1) MUTE Mute the sound temporarily. Mute is released when you adjust volume.
- 2) VOLUME Adjust the sound volume.
- 3) TREBLE Emphasize high frequency audio.
- 4) BASS Emphasize low frequency audio.

• AV mode

1. PICTURE

	SYSTEM	AUTO NTSC PAL
		50 - +
SOOND		
	SHARPNESS	0 - [+
SETUP	CONTRAST	50+
DICTURE	BRIGHTNESS	50+

I) DRIGHTINESS	Adjust the brightness of the screen.		
2) CONTRAST	Adjust the contrast of the screen.		
3) SHARPNESS	Adjust the sharpness of the video image.		
4) COLOR TINT	Change the richness of color.		
5) COLOR TONE	Change the tone of color.		
6) SYSTEM	Change video signal system NTSC, PAL, AUTO.		
4) COLOR TINT 5) COLOR TONE 6) SYSTEM	Change the richness of color. Change the tone of color. Change video signal system NTSC, PAL, AUTO.		

2. SETUP

		N ENICLICII	
	LANGUAGE	ENGLISH	
SETUP	OSD TIME	10 - +	
📢 sound	TRANSLUCENT	0 - +	
	OSD H POS.	50 - +	
	OSD V POS.	50 - +	
	FACTORY RESET	►OFF	
1) LANGUAGE	Change the	OSD language. (ENG-FRA-	Deu-esp-ita-Jpn-kor)

2) OSD TIME	The number of seconds that the OSD will remain visible before disap-
	pearing. (1~60sec.)
3) TRANSLUCENT	Change the opaqueness of the background of the OSD. (0~100%)
4) OSD H POS.	Move the OSD window to the horizontal direction.
5) OSD V POS.	Move the OSD window to the vertical direction.
6) FACTORY RESET	A factory default reset will clear all of OSD information.

3. SOUND

DICTURE	MUTE	►OFF
SETUP	VOLUME	10+
sound	TREBLE	50+
	BASS	50+

- 1) MUTE Mute the sound temporarily. Mute is released when you adjust volume.
- 2) VOLUME Adjust the sound volume.
- 3) TREBLE Emphasize high frequency audio.
- 4) BASS Emphasize low frequency audio.

5. FUNCTION OF REMOTE CONTROL

* This product has a function worked by only remote controller.

• MUTE



If press MUTE button on the remote controller, it turns mute mode and there is an icon on right top side of screen.

To clear mute mode, press mute button one more or press volume button.



AUTO PIC



If press AUTO PIC button on the remote controller, the screen is changed as saved on memory.

The screen is changed [USER-DYNAMIC-NORMAL-MILD] by pressing button.

* This function is not working on HDMI mode.

Display the current mode and volume level.

• RECALL





Current volume

6. OSD MESSAGE





There is an error message as same as left one, when the setting value of external device is not comparable with this monitor. EX) Resolution, Refresh rate, etc.

There is a message as same as left one, when the external device is not connected or power off status of external device.

After connecting this monitor and external device, power on the external device.

1280 x 1024

1440 x 900

1920 x 540

1920 x 1080

80.000

55.919

33.750

67.500

75.000

60.000

60.000

60.000

7. Supported display mode

141141-17	3011/14114	-195011		101101-2	11111-225011		
Mode	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(KHz)	Mode	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(KHz)
VGA	640 x 480	31.469	59.940	VGA 480i	640 x 480	31.469	59.940
	640 x 480	37.500	75.000		640 x 480	37.500	75.000
WVGA	720 x 400	31.469	70.087	WVGA 480p	720 x 400	31.469	70.087
	720 x 480	31.469	59.940		720 x 480	31.469	59.940
SVGA	800 x 600	37.880	60.300	SVGA	800 x 600	37.880	60.300
	800 x 600	46.875	75.000		800 x 600	46.875	75.000
XGA	1024 x 768	48.363	60.004	XGA	1024 x 768	48.363	60.004
	1024 x 768	60.023	75.029		1024 x 768	60.023	75.029
WXGA	1280 x 720	45.000	60.000	WXGA 720p	1280 x 720	45.000	60.000
	1280 x 720	56.383	75.029		1280 x 720	56.383	75.029
WSXGA+	1440 x 900	55.919	60.000		1280 x 1024	64.000	60.000
				SXGA	1280 x 1024	74.600	70.000

WSXGA+

1080i

1080p

* MM 22504

* MM-1750H / MM-1950H

5 CONNECTION



- 1) REMOTE OUT EXTERNAL REMOTE SENSOR OUT 2) HDMI INPUT HDMI CONNECTOR 3) MULTI CONNECTOR DC 12V, AV1, AV2
 - 4) DC IN 12V • + DC 12V input

5) VESA HOLE VESA HOLE (75 x 75mm / 100 x 100mm)



6 CHANGING REMOTE CONTROL BATTERY



1. Slide and open the battery cover.

- 2. Insert new battery and ensure that the polarities are correct when inserting. (No. CR2025)
- 3. Slide and close the battery cover.

7 SPECIFICATIONS

MM-1750H

Screen size	433.019 mm (17.1″)
Active area	367.2(H) x 229.5(V)
Resolution	1440 x 900
Pixel Pitch	0.255 x 0.255
Brightness	250cd/m ²
Contrast ratio	800:1
View angle	80/80/75/85 (L/R/U/D)
Input voltage	DC 12V
Input video system	2 composite (NTSC / PAL), HDMI (720p)
OSD language	7 languages
Sound signal output	Max. 3W x 2
User controls	MENU / DOWN / UP / LEFT / RIGHT / MODE / POWER
Operating temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 60°C
Dimension	418(W)x305(H)x48.5(D) mm
Weight	3.54 kg

MM-1950H

Screen size	481.33 mm (18.95")
Active area	408.24(H) x 255.15(V)
Resolution	1440 x 900
Pixel Pitch	0.2835 x 0.2835
Brightness	300cd/m ²
Contrast ratio	1000:1
View angle	80/80/75/85 (L/R/U/D)
Input voltage	DC 12V
Input video system	2 composite (NTSC / PAL), HDMI (720p)
OSD language	7 languages
Sound signal output	Max. 3W x 2
User controls	MENU / DOWN / UP / LEFT / RIGHT / MODE / POWER
Operating temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 60°C
Dimension	464(W)x330(H)x48.5(D) mm
Weight	4.33 kg

MM-2250H

Screen size	546.86 mm (21.53")
Active area	476.64(H) x 268.11(V)
Resolution	1920 x 1080
Pixel Pitch	0.24825 x 0.24825
Brightness	300cd/m ²
Contrast ratio	1000:1
View angle	85/85/80/80 (L/R/U/D)
Input voltage	DC 12V
Input video system	2 composite (NTSC / PAL), HDMI (1080p)
OSD language	7 languages
Sound signal output	Max. 3W x 2
User controls	MENU / DOWN / UP / LEFT / RIGHT / MODE / POWER
Operating temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 60°C
Dimension	520(W)x370(H)x48.5(D) mm
Weight	5.12 kg

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