

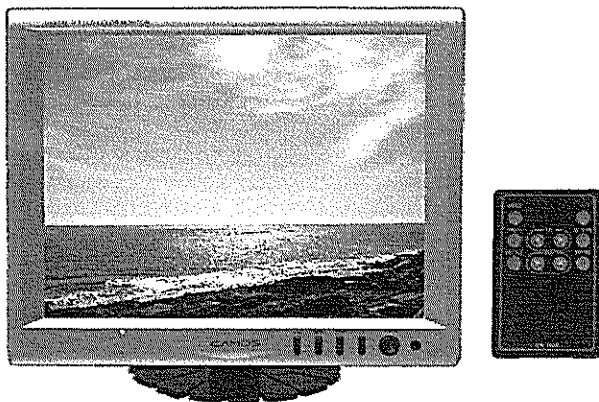
8.4" / 10.4" TFT LCD DIGITAL MONITOR

# INSTRUCTION MANUAL

## CMOS

MODEL: CM-840D/ CM-1040D

Thank you for choosing this product.  
Please read this instruction manual carefully before operating  
this product.



RECORD YOUR MODEL NUMBER (Now, while you can see it)  
The model and serial number of your MONITOR are located on  
the back of the cabinet. For your future convenience, we suggest  
that you record these numbers here :

MODEL number : \_\_\_\_\_

SERIAL number : \_\_\_\_\_

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## 1. Safety Rules



















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

Warning	May cause bodily harm or even death if users ignore warnings in the safety rules.
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Caution	May cause bodily harm or even death if users ignore cautions in the safety rules.
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About signs:	
	"Precautions"
	"Do not"
	"Follow directions carefully"

### Precautions

-  Place the product where it doesn't prevent the driver from driving.--- The driver's view of sight should not be blocked.
-  Do not watch or operate the product while driving. --- This may cause a major accident.
-  Do not place the product near the passenger-side airbag.--- Airbags may not operate properly or may cause personal damage and accident when accidentally opening.
-  Do not get product wet and operate with wet hands.---This may cause electric shock.
-  Do not use in bathtub. Do not pull the plug with wet hands. ---This may cause electric shock.
-  Do not use unapproved power voltage. ---This may cause fire or electric shock.
-  Do not use unapproved Cigarette Lighter Adapter. ---This may cause fire ,electric shock and/or malfunction.
-  Clean electric socket area often.--- Dust in the area may cause fire.
-  Keep electric cord properly positioned.--- An improperly positioned electric cord may cause fire or electric shock when metal material is in contact with the power source.
-  Do not damage or bend electric cord. Do not place heavy objects on electric cord. ---This may cause fire from electric sparks.
-  Do not use damaged electric cord.--- This may cause fire and/or electric shock.
-  Do not put pins or needles into the product or electric cord of product.--- If this happens, stop the product operation immediately. Continuous use may cause fire, electric shock and/or malfunction.
-  Do not place any containers with water or any small metal objects on top of the product or nearby it.--- Unplug the product when water or metal comes in contact with the product. Continuous use may cause fire, electric shock and/or malfunction.
-  Stop using the product immediately when you drop it or damage the outside shell. --- Continuous use may cause fire, electric shock and/or malfunction.
-  Be careful when thunder and lightning occurs.--- There is a danger of electric shock.
-  Always clean the cigarette lighter socket before using product.--- Bad connection may cause fire.
-  Do not use non-specified double socket and extended car battery cord.--- This may cause excess heat and/or fire.
-  Do not attempt to open, disassemble or repair the product by any person except an authorized service dealer.--- This may cause electric shock and/or malfunction. You should request an authorized service dealer for any inspection and repair of the product.

- ⊘ Do not operate the product when you notice any problems such as strange smell or smoke from the product.--- This may cause fire. Stop using immediately and contact an authorized service dealer.

### ⚠ Warning

- ⊘ Do not put the product in a place where sudden temperature increase occurs such as the vehicle's dashboard.
- ⊘ Do not place the product where high temperature and/or the direct ray of the sun occurs.--- This may cause fire, electric shock and/or malfunction.
- ⊘ Do not put the product in an unstable place where the product may be exposed to shock and/or impact.--- The product may fall and be damaged.
- ⊘ Do not place electric cord near a heating product.--- The cord surface may melt and cause fire and/or electric shock.
- ⊘ Do not press or drop LCD panel.--- You should not give any shock on LCD panel because it may cause damage.
- ⚠ Unplug the product and remove cords when moving.--- It may damage cords and cause fire and/or electric shock.
- ⚠ The car engine should be running when you use the product in a car. ---Without the engine running, you may have excessive discharge of the car battery.
- ⊘ Do not pull the cord line when you unplug it. ---Damaged cords may cause fire and/or electric shock. Hold the plug when you unplug the product.
- ⚠ Put a battery in the remote control properly with +, - signs as directed in this manual. --- Improper use of batteries may cause fire and/or damage.
- ⚠ Unplug the product when you don't use it for a long period of time. ---Insulation may cause electric shock, electric leak and/or fire.
- ⚠ Unplug the product when you clean or care for it. ---Not unplugging product may cause electric shock.
- ⚠ Do not watch Monitor for a long period of time. ---This may damage your eyesight.

If you find any strange occurrences or malfunction in the product or any foreign substance gets into the product, please contact the authorized retailer where you purchased the product.

- When you transport the product, remove all cords and do not give any shock. ---This may cause a malfunction.
- Do not place volatile materials such as insecticides on the product. The product should not come in contact with rubber or vinyl for a long period of time. ---The surface of the product may change and paint may peel off.
- Do not use the product in the following locations. ---This may cause malfunction.
  - In direct rays of the sun and near heating products.
  - High in humidity and with bad ventilation
  - Dusty or oily locations
  - Low temperatures
  - Unstable environment

## 2. Before Use

- To safely use the product, please read the user's manual carefully before use.
- Connect all lines as directed in the product connection map in the manual.
- Do not touch the LCD panel.
- Use the product at the temperature range of -10°C ~ 50°C .
- Screen may be a little dark when the product is operated in low temperature areas. Screen will show normal luminosity after a few minutes.
- Do not disassemble and modify the product in any way. This may cause fire and/or electric shock.
- When you install the product in a car, do not set a volume level too loud for others to hear outside.
- When you install the product in a car and watch TV, the car engine should be running as there might occur excessive discharge of the car battery.
- Any liquid leaking into product may cause malfunction.

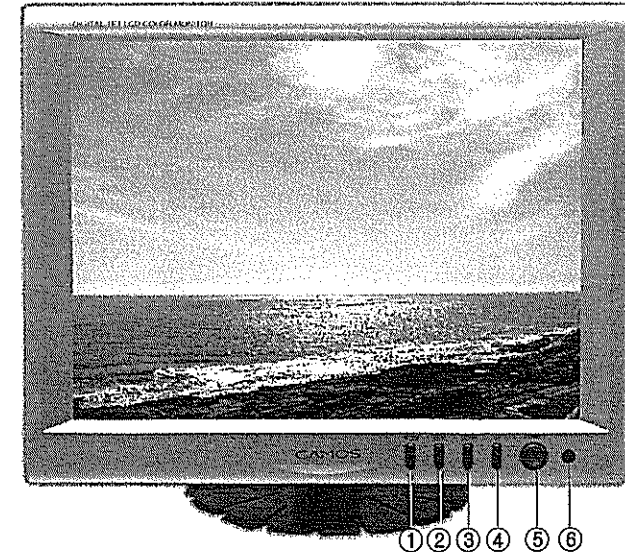
### ■ Precautions (when you use the product in a car)

- The driver should not use the product while he/she is driving.
- Follow traffic laws when you use the Navigation Route System.
- Be cautious of humidity and shock when you use the product in a car.
- The product should not be placed on the dashboard or near engine
- Cover the product when exposed to direct rays of the sun for a long period of time. (You should keep the product at a temperature range of -20°C ~ 80°C.)

### 3. Special Features of the product

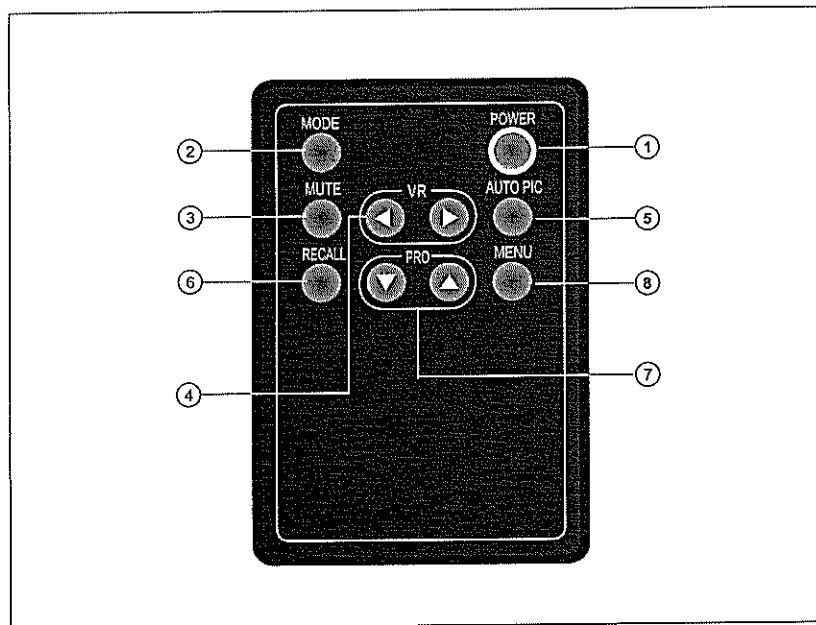
- Applied high resolution and low reflection DIGITAL TFT LCD (800 x 600)
- High luminance application
- All electronic control functions
- Convenient Graphic OSD
- All functions are displayed on screen (OSD function)
- System auto recognition function(PAL/ NTSC/ AUTO)
- PC(RGB) auto adjustment
- 7 Languages display  
(English, German, French, Spanish, Italian, Japanese, Korean)
- PC(RGB)/ AV/ S-VIDEO selection function
- One-touch Dimmer(Remote control)
- 0.5W Speaker built in
- STAND BY Function
- Low Power consumption
- Audio mute function (Remote control)

### 4. Terms of part



- ① **MODE:** AV/S-VIDEO/PC(RGB) selection function.  
Press the mode button to be appeared source select OSD box and press the DOWN, UP button or mode button repeatedly then press the menu button or wait 3 second to select highlighted source.
- ② **MENU:** Button to Setup Screen and Function.  
Press the menu button to be appeared Menu OSD box and press the mode button repeatedly to select the main menu(Picture menu, Setup menu, Audio menu), then press the DOWN or UP button to enter to sub menu, press the mode button repeatedly to highlight icon that user wants, press the DOWN, UP button to increase, decrease or change the function. Push the Menu button once to return to the main menu to select another function or press twice to exit from the OSD.
- ③ **DOWN :** Select the sub menu, decrease the selected function, hot key for volume down
- ④ **UP :** Select the sub menu, increase the selected function, hot key for volume up
- ⑤ **POWER:** ON/OFF button.
- ⑥ **Remote Sensor Window:** Sensor for receiving signal from the remote control.

## 5. Remote Control



- ① POWER : Power ON/OFF Key
- ② MODE : Used when AV, S-VIDEO, PC(RGB) conversion
- ③ MUTE : For muting sound  
Returns to the previous sound level when you push again
- ④ VR ◀ ▶ : Controls Volume and changes MENU level
- ⑤ AUTO PIC : Changes brightness and contrast level of the screen  
(User, Dynamic, Normal, Mild)
- ⑥ RECALL : Displays present status and volume level
- ⑦ PRO ▼ ▲ : Moves and selects Menu
- ⑧ MENU : Selects menu and changes function

## 6. Functions

( ): REMOTE KEY

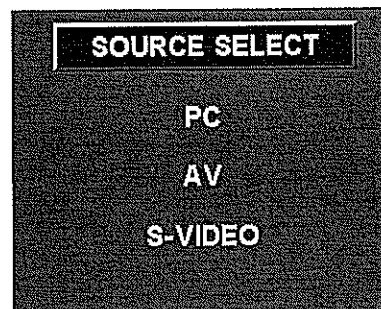
- ① POWER (POWER)  
ON/OFF KEY

- ① Push POWER button to on the power (STAND BY state is OFF)
- ② Push POWER button again to off the power

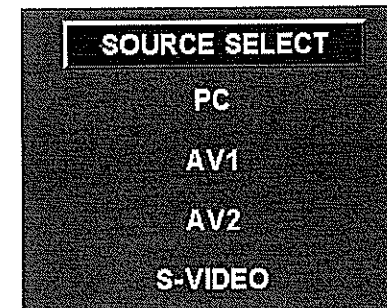
- ② MODE

It is function to change external video signals to PC(RGB)/AV/S-VIDEO mode.

■ PC(RGB), AV, S-VIDEO



■ PC(RGB), AV1, AV2, S-VIDEO



- ③ MENU (MENU)

1) Accessing the menu system

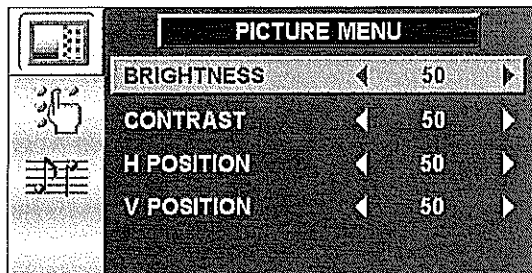
- With the OSD off, push the MENU button to display the main OSD menu.
- Use the UP (▲) or DOWN (▼) buttons to move from one function to another.  
As you move from one icon to another, the function name changes to reflect the function or group of functions represented by that icon available for the driver board.
- Press the MODE button once to activate the highlighted function, use the UP (▲) or DOWN (▼) buttons to select the function.
- After selecting a function, Press MODE key, use the UP (◀) or DOWN (▶) buttons to make necessary adjustments.

**NOTE** : The numeric value indicator is provided as a point of reference only and has nothing to do with a real measurement.

- Push the MENU button once to return to the main menu to select another function or press twice to exit from the OSD

## 2) PICTURE MENU

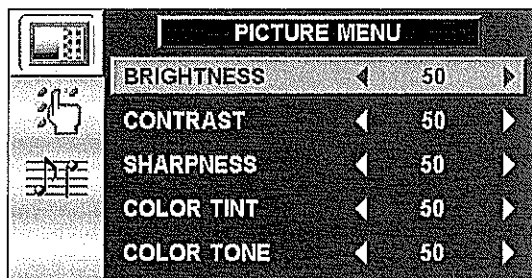
- Source Selected PC(RGB).



PICTURE MENU is used to fine tune and get the best image by adjust brightness and contrast that creates unstable images with jitters and shimmers.

Brightness	Adjust the brightness of video without affecting AV, S-VIDEO's brightness.
Contrast	Adjust the contrast of video without affecting AV, S-VIDEO's contrast.
H Position	Adjust the horizontal position of the image.
V Position	Adjust the vertical position of the image.

- Source Selected AV/S-Video.

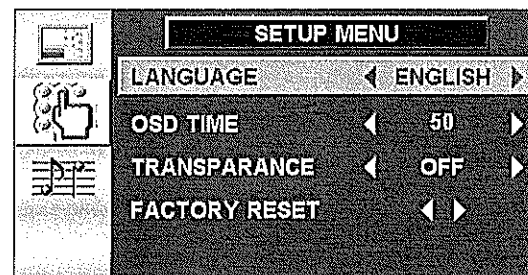


Brightness	Adjust the brightness of video without affecting PC(RGB)'s brightness.
Contrast	Adjust the contrast of video without affecting PC(RGB)'s contrast.
Sharpness	Adjust the sharpness of video image.
Color tint	Change the richness of color.
Color tone	Change the tone of color.

## 3) SETUP MENU

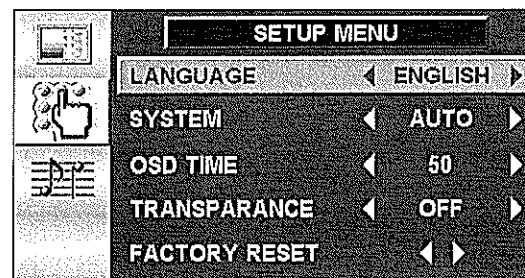
- Source Selected PC(RGB)

SETUP MENU is used to adjust OSD menu information.



Language	Change language English, German, France, Italian, Spanish, Japanese, Korean.
OSD Time	The number of seconds that the OSD will remain visible before disappearing.
Transparence	Change the opaqueness of the background of the OSD.
Factory Reset	A factory default reset will clear all of OSD information

- Source Selected AV/S-Video

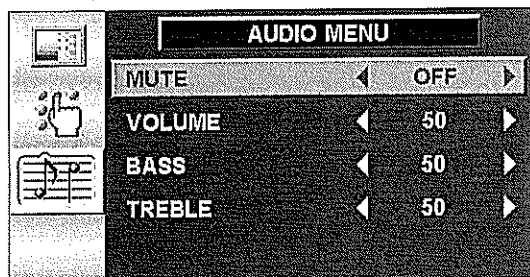


Language	Change language English, German, France, Italian, Spanish, Japanese, Korean.
System	Change broadcast system NTSC, PAL, AUTO.
OSD Time	The number of seconds that the OSD will remain visible before disappearing.
Transparence	Change the opaqueness of the background of the OSD.
Factory Reset	A factory default reset will clear all of OSD information

#### 4) AUDIO MENU

■ Source Selected PC(RGB), AV, and S-Video.

The monitor has a built-in high fidelity stereo audio amplifier. The audio circuit processes audio signal from various external input sources such as DVD, VCR or another source.



Mute	Mutes the sound temporarily. Mute is released when you change channel and adjust volume.
Volume	Adjust the sound volume.
Bass	Bass: Emphasize low frequency audio.
Treble	Treble: Emphasize high frequency audio.

#### 5) Quick Volume

It is a function of Volume control.

OSD displays VOLUME word and number.

OSD disappears in 3 seconds after finishing operation.

1. UP button increases the volume.
2. This key can be pushed continuously or only once.
3. DOWN button decreases the volume.



#### 6) Quick Brightness(Remote control only)

It is a function of Brightness control.

When you pushed ▼ button. OSD displays BRIGHTNESS word and number.

OSD disappears in 3 seconds after finishing operation.

1. UP button increases the Brightness.
2. This key can be pushed continuously or only once.
3. DOWN button decreases the Brightness.



#### 7) Quick Contrast(Remote control only)

It is a function of Contrast control.

When you pushed ▲ button. OSD displays CONTRAST word and number.

OSD Disappears in 3 seconds after finishing operation.

1. UP button increases the Contrast.
2. This key can be pushed continuously or only once.
3. DOWN button decreases the Contrast.



#### 8) Quick Mute ON / OFF

It is a function of Mute control.



When you pushed MUTE button. OSD displays this image.

This image can be toggle.

#### 9) Quick Screen Mode.

It is a function of screen control.



When you pushed AUTO PIC button. OSD display this image.

If you operate PRO ▲▼ button in Screen Mode, screen mode is changed and setup.

DYNAMIC → NORMAL → MILD → USER

#### 10) Quick RECALL

It can displays present status and Volume level.

OSD disappears in 2 seconds after finishing operation.

##### ● Recall PC(RGB)



##### ● Recall S-VIDEO



##### ● Recall AV



##### ● Recall AV1

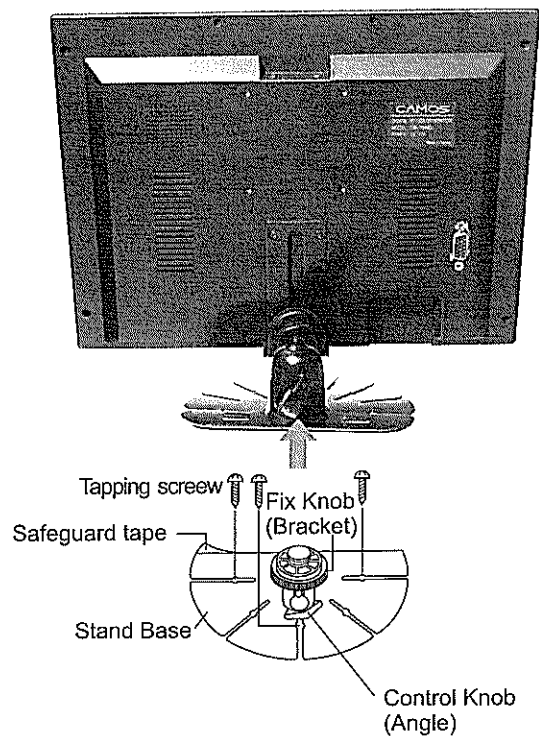


##### ● Recall AV2

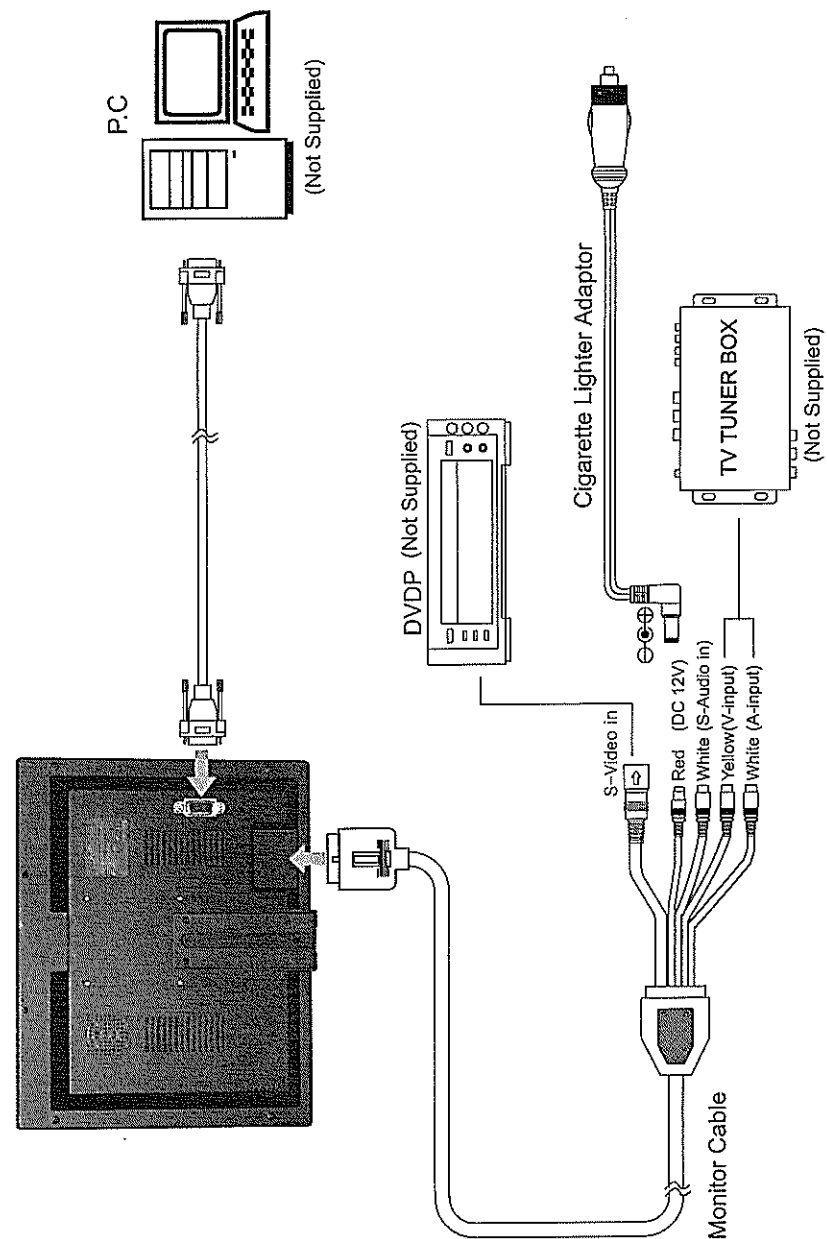


## 7. Installation

1. Choose a location where you install the Monitor. Clean the place for the Stand with cleanser and remove the Safeguard tape. And then attach it exactly where you want.
2. Fasten the Monitor with Tapping Screw.
3. Adjust angle of Stand and install Monitor.
4. Connect each connecting cable as in the product installation reference.



## 8. Product Connection Map





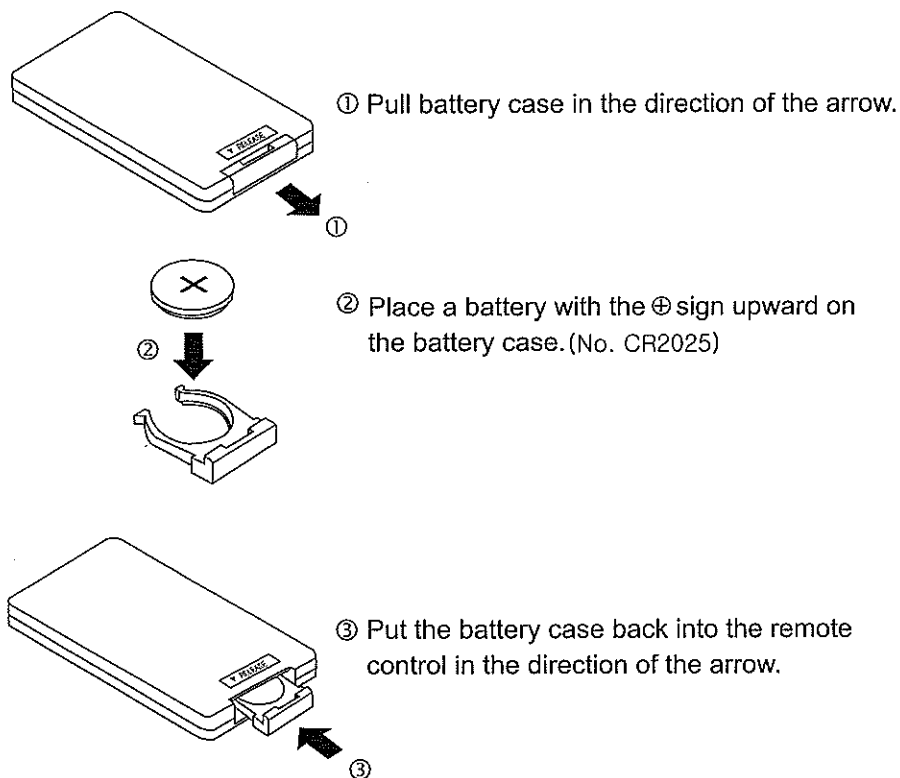
- Monitor Cable

Connected to A/V (Audio/Video): Connected to A/V of the MONITOR and NAVIGATION

- Cigarette Lighter Adaptor

Cigar plug connection: Cigarette Lighter Adaptor for an automobile (12V)  
(Automobile with DC 24V option must use a special adaptor)

## 9. Changing Remote Control Battery



## 10. Specifications

- Model: CM-840D(8.4")

ITEM		Specification	
		NTSC	PAL
LCD Panel	Screen size	21.336 cm (8.4 Inch)	
	Display format	480,000Pixels 800(W) x 600(H) Dots	
	Dot pitch	0.212(W) x 0.212(H) m/m	
		0.008(W) x 0.008(H) inch	
	Brightness	300 cd/m <sup>2</sup>	
	Contrast ratio(CR)	250 : 1	
	Active area	170.5(W) x 128.4(H) m/m	
6.712(W) x 5.055(H) inch			
View angle(H/U/D)	±55deg / 35deg / 35deg		
Power supply	Voltage	DC12V	
	Consumption	10.8 Watt MAX	
Rear Input Power	DC12V		
Input system	NTSC / PAL / AUTO		
OSD Display	7 Languages		
Input synchronous	TTL Separate ,Composite		
Frequency	Horizontal	15.73KHz	15.63KHz
	Vertical	60 Hz	50 Hz
Input signal	Video	Analog RGB 0.7Vp-p	
		Composite VIDEO, S-VIDEO (75 ohm 1Vp-p)	
	Audio	Mono Input 400 mVrms	
Sound signal	0.5 Watt max		
User controls	POWER on/off, MENU , MODE		
	PRO up/down		
Regulation	FCC, E-MARK		
Operating temperature	-10 °C to + 50 °C(+32 °F to +122 °F)		
Storage temperature	-20 °C to + 60 °C( -4 °F to +140 °F)		
Dimension ( W x H x D )	223 (W) x 178 (H) x 34.5 (D)m/m		
	8.78(W) x 7.01(H) x 1.36(D) inch		
Weight	1.2Kg (2.645 lbs) (Exclude Monitor Bracket)		
Accessories	Remote controller (with Battery)		
	Monitor cable Ass'y		
	Cigarette lighter adaptor(Fuse 2A)		
	Stand Ass'y(with Acc'y)		

## 10. Specifications

- Model: CM-1040D(10.4")

ITEM		Specification	
		NTSC	PAL
LCD Panel	Screen size	26.416 cm (10.4 Inch)	
	Display format	480,000Pixels 800(W) x 600(H)	
	Dot pitch	0.264(W) x 0.264(H) m/m	
		0.010(W) x 0.010(H) inch	
	Brightness	220 cd/m <sup>2</sup>	
	Contrast ratio(CR)	400 : 1	
	Active area	211.7(W) x 158.4(H) m/m	
8.334(W) x 6.236(H) inch			
View angle(H/U/D)	±55deg / 40deg / 40deg		
Power supply	Voltage	DC12V	
	Consumption	9.6 Watt MAX	
Rear Input Power	DC12V		
Input system	NTSC / PAL / AUTO		
OSD Display	7 Languages		
Input synchronous	TTL Separate ,Composite		
Frequency	Horizontal	15.73KHz	15.63KHz
	Vertical	60 Hz	50 Hz
Input signal	Video	Analog RGB 0.7Vp-p	
		Composite VIDEO, S-VIDEO(75 ohm 1Vp-p)	
	Audio	Mono Input 400 mVrms	
Sound signal	0.5 Watt max		
User controls	POWER on/off, MENU , MODE		
	PRO up/down		
Regulation	FCC, E-MARK		
Operating temperature	-10 °C to + 50 °C(+32 °F to +122 °F)		
Storage temperature	-20 °C to + 60 °C( -4 °F to +140 °F)		
Dimension ( W x H x D )	254 (W) x 202 (H) x 29 (D)m/m		
	10.0(W) x 7.95(H) x 1.14(D) inch		
Weight	1.5Kg (3.3 lbs) (Exclude Monitor Bracket)		
Accessories	Remote controller (with Battery)		
	Monitor cable Ass'y		
	Cigarette lighter adaptor(Fuse 2A)		
	Stand Ass'y(with Acc'y)		

Memo

- Caution: The design and specifications of this product in order to improve its quality may be changed without notice.