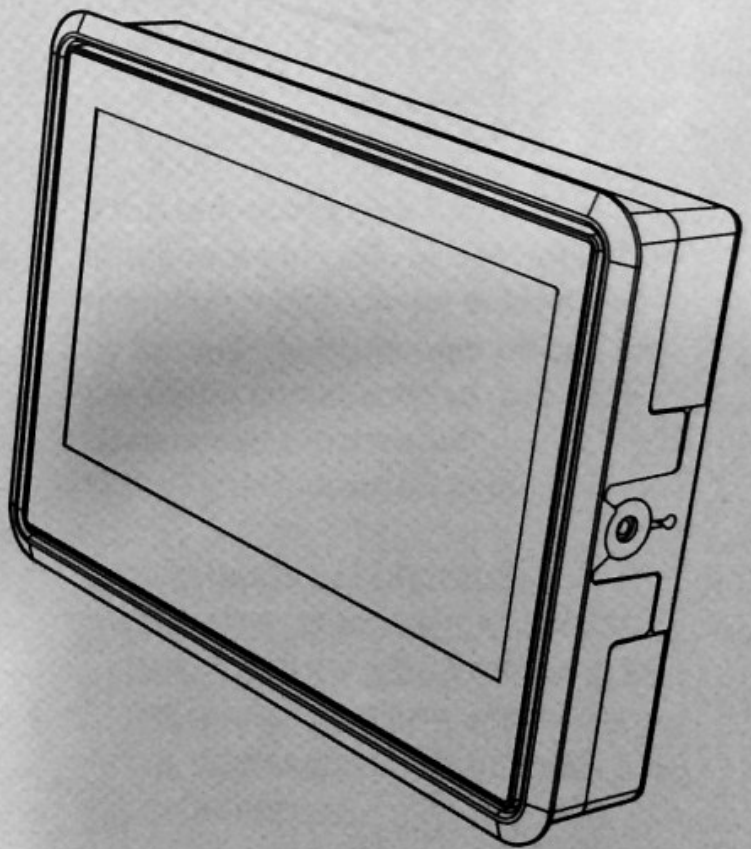


# TRIPLEVISION

## ***TVR4000S***

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





# CONTENTS

Safety Instructions .....	4
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This unit 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 unit 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 unit 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 consult the dealer or an experienced radio/TV technician for help.

- **INFORMATION FOR USERS:**  
CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

# 1 Safety 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.

## Warning



May cause bodily harm or even death if the user ignores these warnings in the safety rules.









## Caution



May cause a damage or shorten the life time of the product if the user ignores these cautions in the safety rules.



## WARNING

-  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.
-  Do not get product wet and operate with wet hands.  
--- It may cause to electronic shock or malfunction.
-  Do not place where interfere with visual field and watch or operate monitor during driving.  
--- It may cause traffic accident.
-  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.
-  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.



## CAUTION

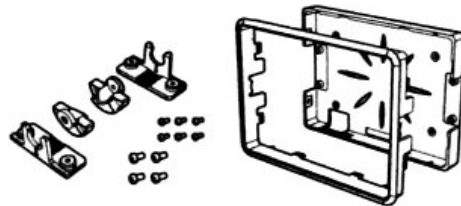
---

- ⊘ Should install while power off. (After install products, connect DC jack)  
--- It may cause to electronic shock or malfunction.
- ⊘ Do not push a LCD panel.  
--- It may cause LCD broken.
- ⊘ In case of inserting battery, attend to polarity and insert according to direction  
--- When wrong inserting, it may cause fire, damage by explosion.
- ⊘ While stop driving (parking), set the car in motion.  
--- It may cause battery discharge.
- ⊘ Do not use multi socket or extended adaptor.  
--- It may cause unexpected heating, fire and malfunction.
- ⊘ Unplug product when do not use for a long time.  
--- It may case fire by short circuit due to heating.
- ⊘ Do not place near magnet.  
--- It may cause malfunction and trouble.

# 1 Box Contents



Monitor



Bracket & Screw set



Instruction  
Manual



Monitor cable



Power cable



Remote Controller



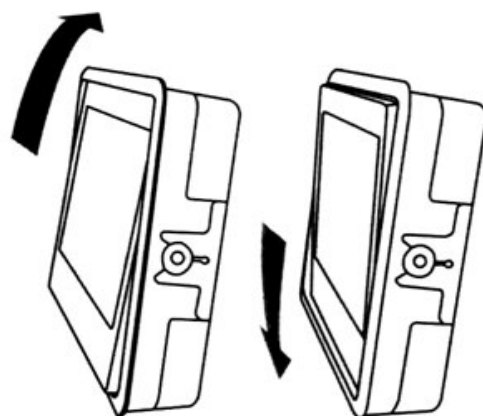
Stand



TRG  
Extension Cable

## 2 Features

- Application of 7.0" WIDE TFT LCD with high resolution and low reflection
- All functions are displayed on screen (OSD function)
- 7 Language Display Selection  
(ENGLISH-DEUTSCH-ITALIANO-FRANÇAIS-ESPAÑOL-한국어-日本語)
- Picture quality control (PWM control)
- Free voltage (From DC12V to DC24V)
- Dimmer selection function
- Camera input (3 system)/Work together with back gear/side signal
- Video input (video/mono audio)
- Wireless remote controller
- This product adopts tilting function so watching is possible from wanted angle.





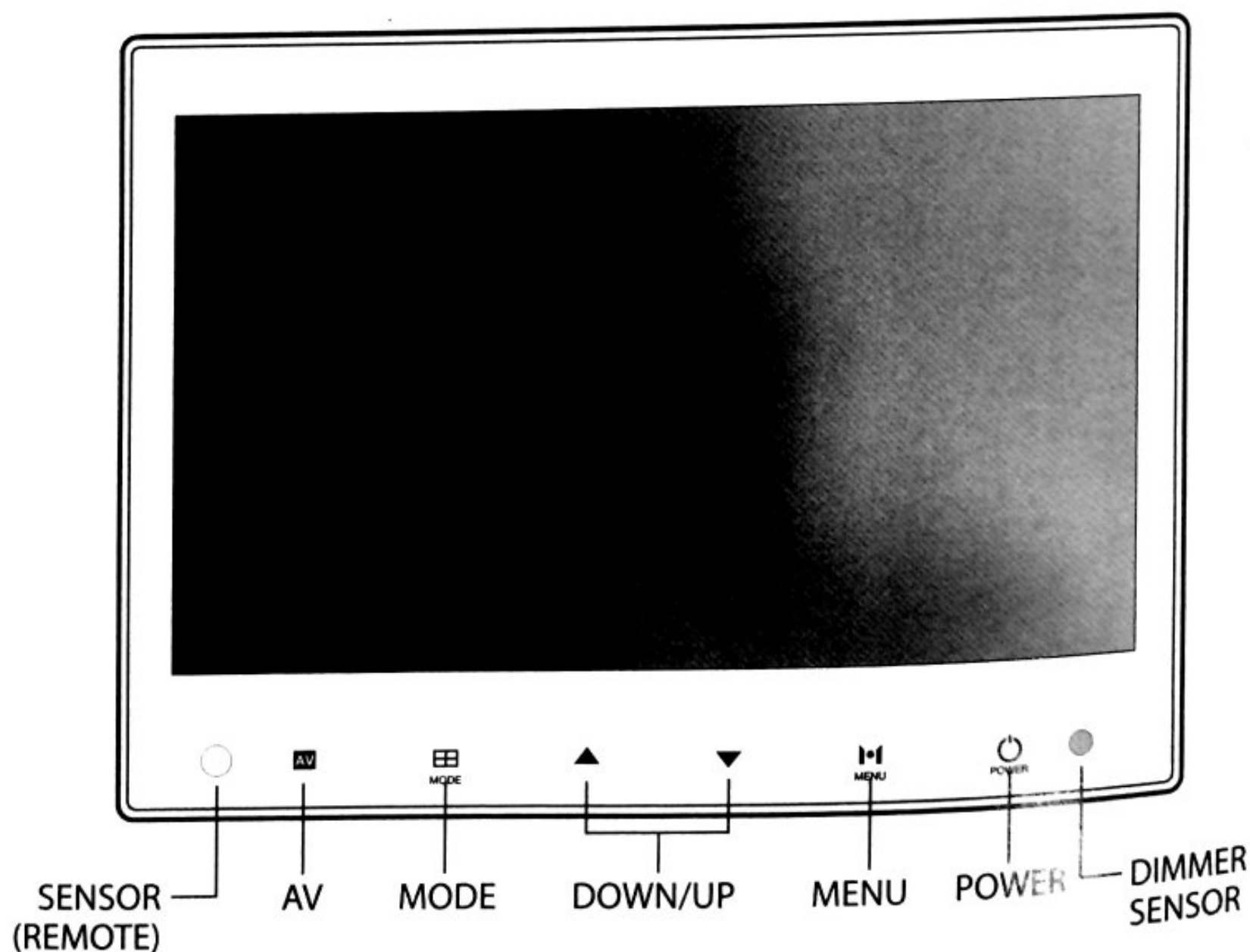
### 3 Before Use

- Not back up vehicle while relying only on the monitor image and use slow speeds when backing up.
- The rear-view monitor image has the same right-left inversion as your vehicle's rearview mirrors. Depending on the vehicle, the field and angle of view may differ.

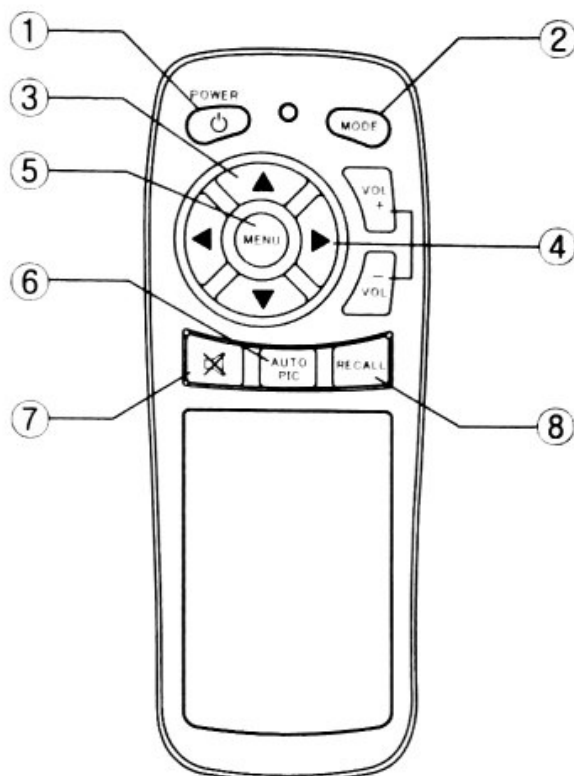
#### Precautions (when you use the monitor)

- Screen may be a little dark when the product is operated in low temperature areas. Screen will show normal luminosity after a few minutes.
- When you install the product in a car and watch monitor, the car engine should be running as there might occur excessive discharge of the car battery.
- 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  $-4^{\circ}\text{F} \sim 158^{\circ}\text{F}$ )

### 4 Names of the Monitor Buttons



## 5 Remote Control (option)



① POWER

Turning the power on/off

② MODE

Selecting REAR/LEFT/RIGHT/AV

③ ▲▼

Moving up/down on menu

④ ◀▶ (VOL+/-)

Changing volume or MENU level

⑤ MENU

Selecting MENU and changing functions

⑥ AUTO PIC

Adjusting the screen setting

⑦ MUTE

Mute mode on/off

⑧ RECALL

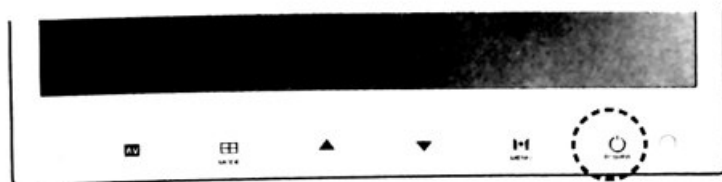
Displaying the current mode and volume level



## 6 Functions

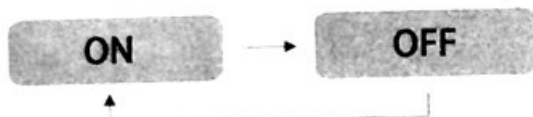
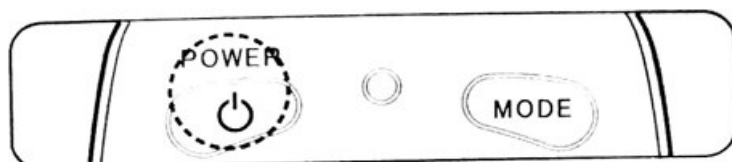
### 1 POWER

MONITOR



AV MODE DOWN/UP MENU POWER

REMOTE CONTROL

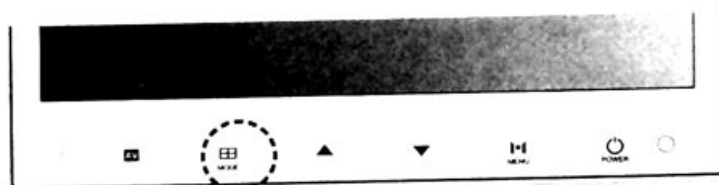


- (1) Press [POWER] button to the power. (STAND BY state is OFF)
- (2) Press [POWER] button again to off the power. (STAND BY state is ON)

### 2 MODE (REAR/LEFT/RIGHT/AV)

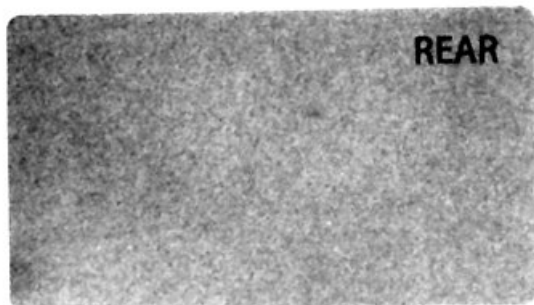
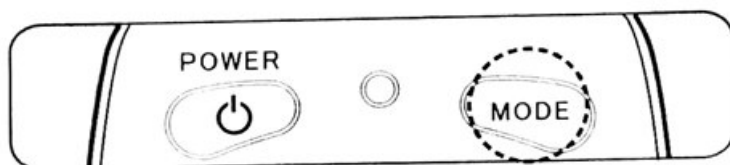
- It is a function to change MODE (REAR/LEFT/RIGHT/AV)

MONITOR

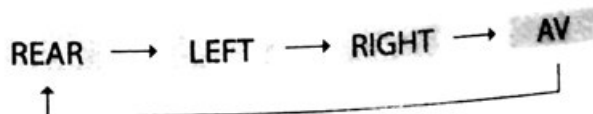


AV MODE DOWN/UP MENU POWER

REMOTE CONTROL



- (1) Press [MODE] button.  
The characters of REAR, LEFT, RIGHT, AV appear on the screen and they disappear after 5 seconds.

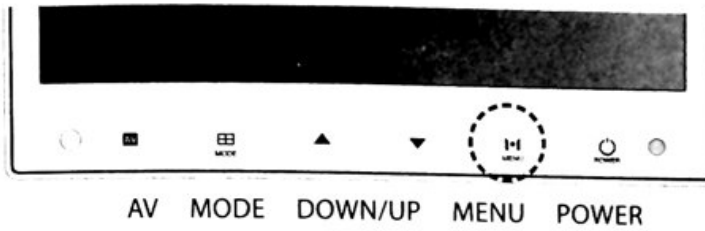


- \* Note : In the mirror mode, the character is inverted.
- \* If there is no video signal in the mode, it will be skipped in the toggling mode.

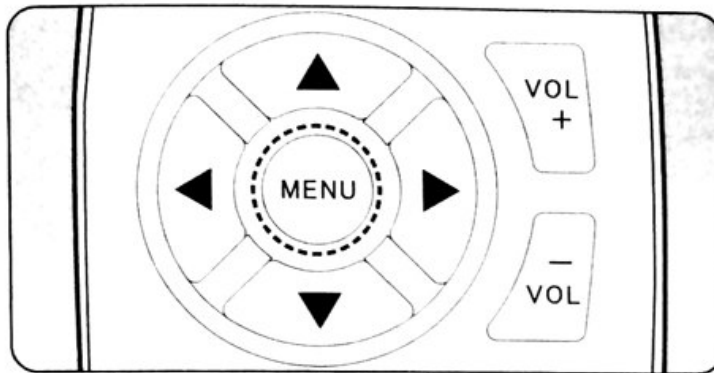
### 3 MENU 4 UP/DOWN

- It is a function to select MAIN MENU (SETUP/PICTURE)

MONITOR

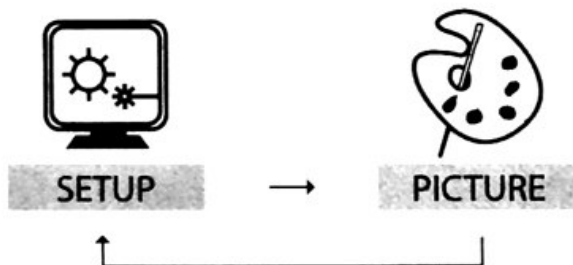


REMOTE CONTROL



- (1) Press [MENU] button to select MAIN MENU, changed color in red when it is selected.

\* Every time the button is pressed, the setting changes.



- (2) Press [▲▼] button to select SUB MENU, changed color in red when it is selected.

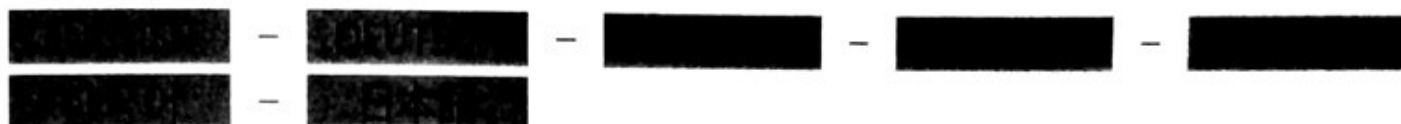
\* Every time the button is pressed, the setting changes.

- (3) Press [◀▶] button to change settings.

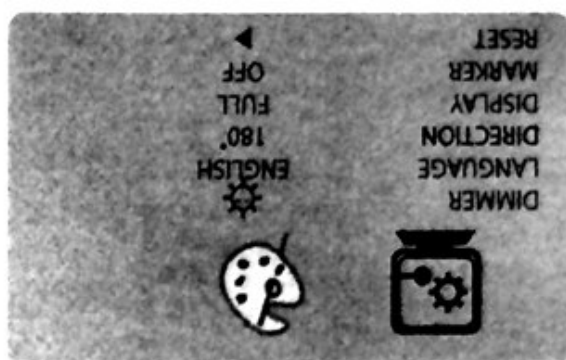
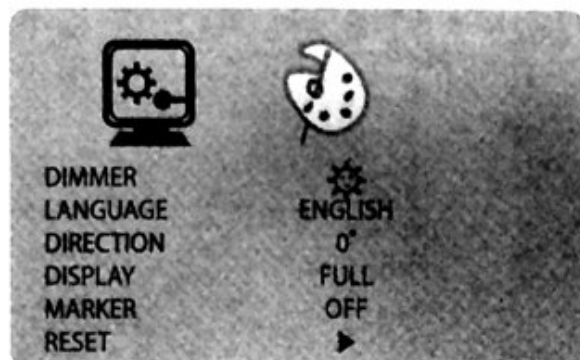
## ■ DIMMER



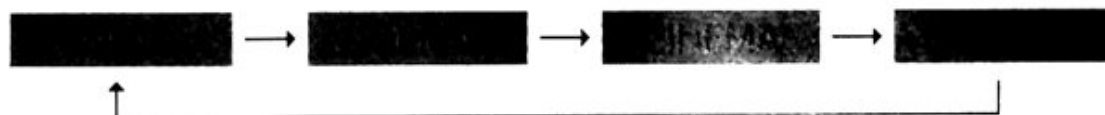
## ■ LANGUAGE



## ■ DIRECTION (Inverted upside down)



## ■ DISPLAY (Screen size)



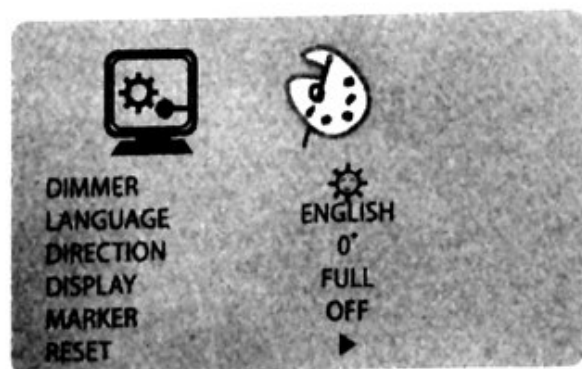
## ■ MARKER

### **Warning**

- The onscreen distance markers should be considered as a general reference to assist the driver in assessing the distances depicted on the screen. The distance markers have been designed based on the "CCD camera installation conditions" listed in the next section, but differences in vehicle design and construction may result in the actual installation condition or location being different from the conditions listed. In such cases, the display location should be set at the closest marker No.
- Distance markers cannot be set if non CAMOS cameras are used.

### **Caution**

- The markers may not indicate the exact position of the bumper, the vehicle's width or the distance to the rear. Use as a reference only.



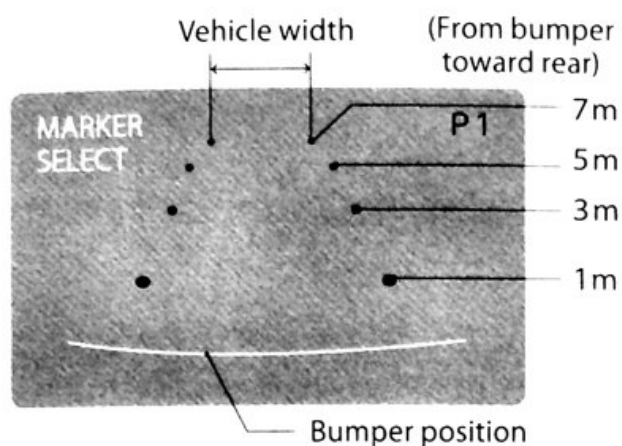
- (1) Press MENU button on CAM1, full screen mode.
- (2) Press MODE button and select MARKER.
- (3) Then, press [DOWN/UP] button on the monitor or [◀▶] button on the remote control, select ON.

\* It is set OFF from the factory.

## <MARKER SELECT>

- (1) Press MENU button and select MARKER SELECT menu.
- (2) Press [DOWN/UP] button on the monitor or [◀▶] button on the remote control, and switch marker pattern.

\* Distance marker function setting is only possible when MARKER is selected on CAM1, full screen mode.



## ■ CCD camera installation conditions (distance marker input conditions)

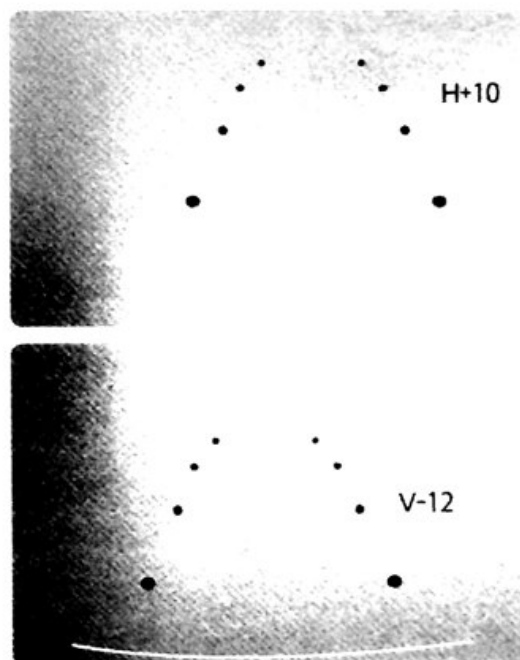
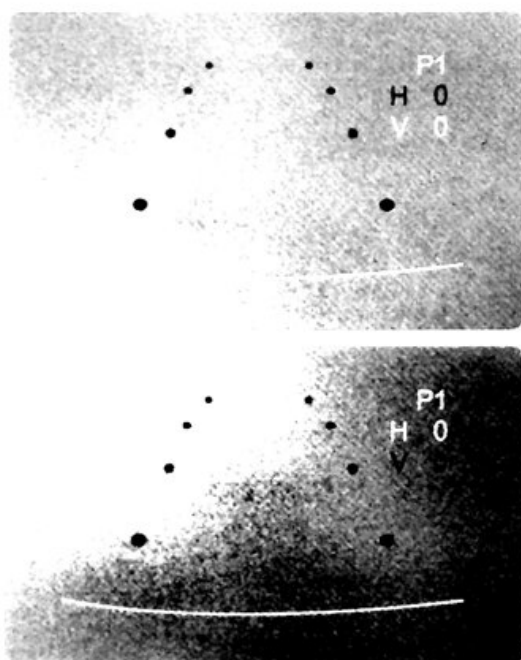
(Unit : mm)

Marker No. (Pattern)	Camera Install Height	Vehicle Width
P 1	2, 000	2, 500
P 2	2, 250	2, 300
P 3	2, 500	
P 4	2, 750	
P 5	3, 000	
P 6	3, 250	2, 500
P 7	3, 500	

## <MARKER ADJUST>

- (1) Press MENU button and select MARKER ADJUST menu.
- (2) Press MODE button and select H / V. (H: horizontal / V: vertical )
- (3) Press [DOWN/UP] button on the monitor or [◀▶] button on the remote control, and switch marker pattern. (H = -10~+10, V= -12~+12, Default setting: H=0, V=0)
- (4) After 10 seconds, set up screen disappears, and set up finishes.

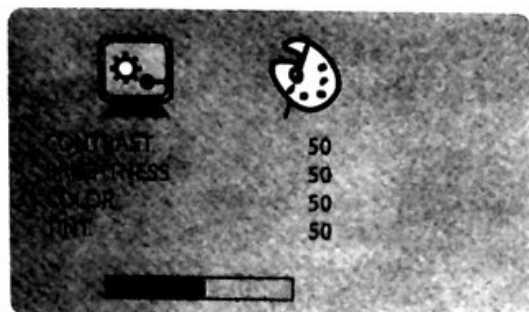
\* If there is no button operation, set up screen disappears even during set up process.



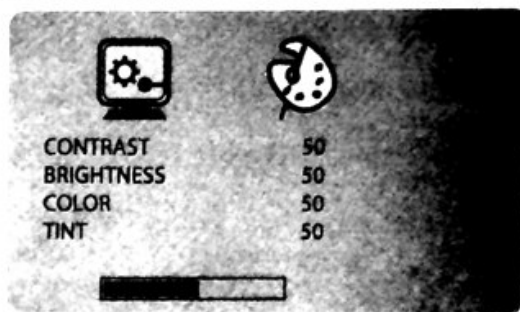
## ■ RESET

A factory default reset will clear all of OSD information.

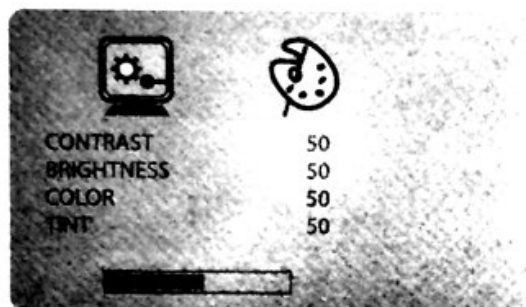
## ■ CONTRAST



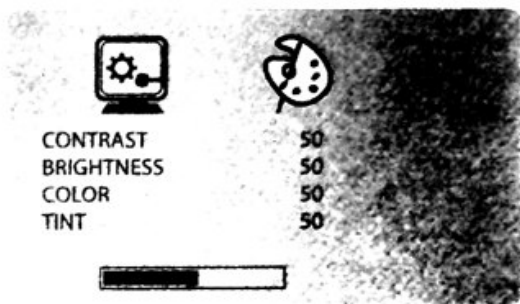
## ■ BRIGHTNESS



## ■ COLOR



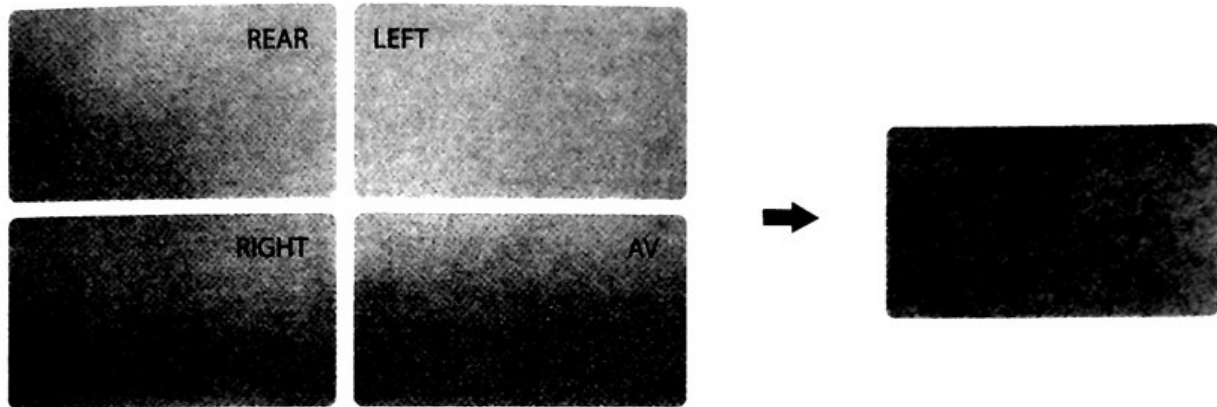
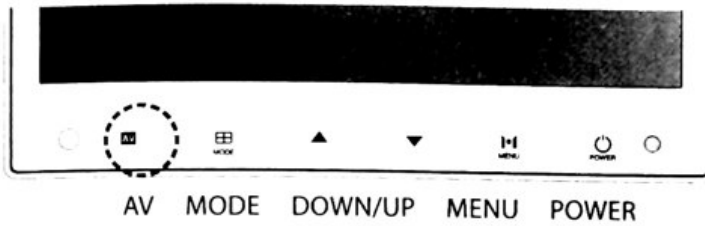
## ■ TINT



## 5 AV

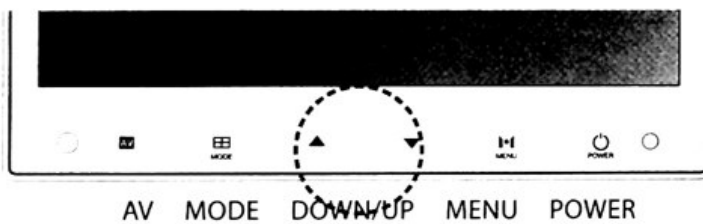
- It is a function to change AV MODE.

MONITOR

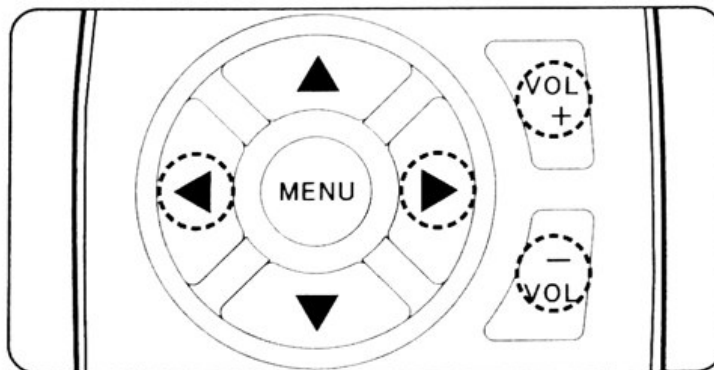


## 6 VOLUME +/-

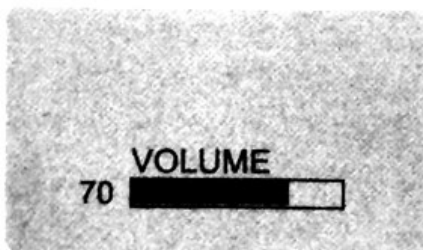
MONITOR



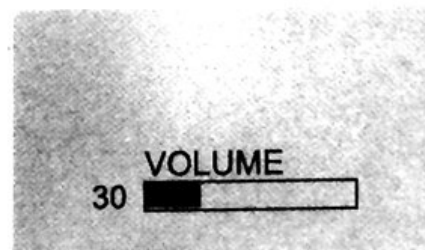
REMOTE CONTROL



- (1) Press [▶,VOL+] button to turn up the volume.



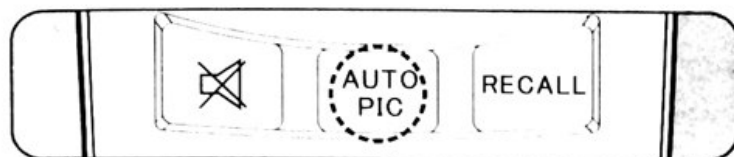
- (2) Press [◀,VOL-] button to turn down the volume.



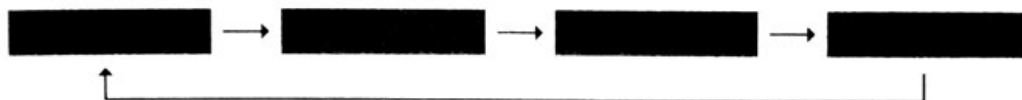


## 7 AUTO DISP

REMOTE  
CONTROL

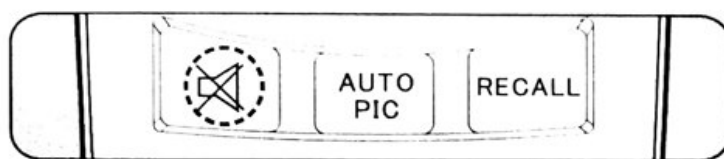


(1) Press [AUTO PIC] button to select the screen size.



## 8 MUTE

REMOTE  
CONTROL



(1) Press [MUTE] button to mute the sound.

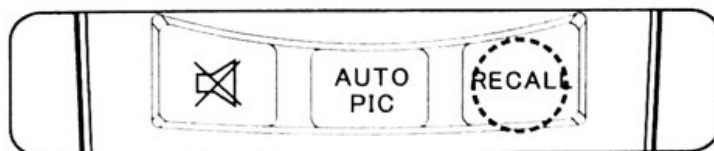


(2) Press [MUTE] button again to cancel.



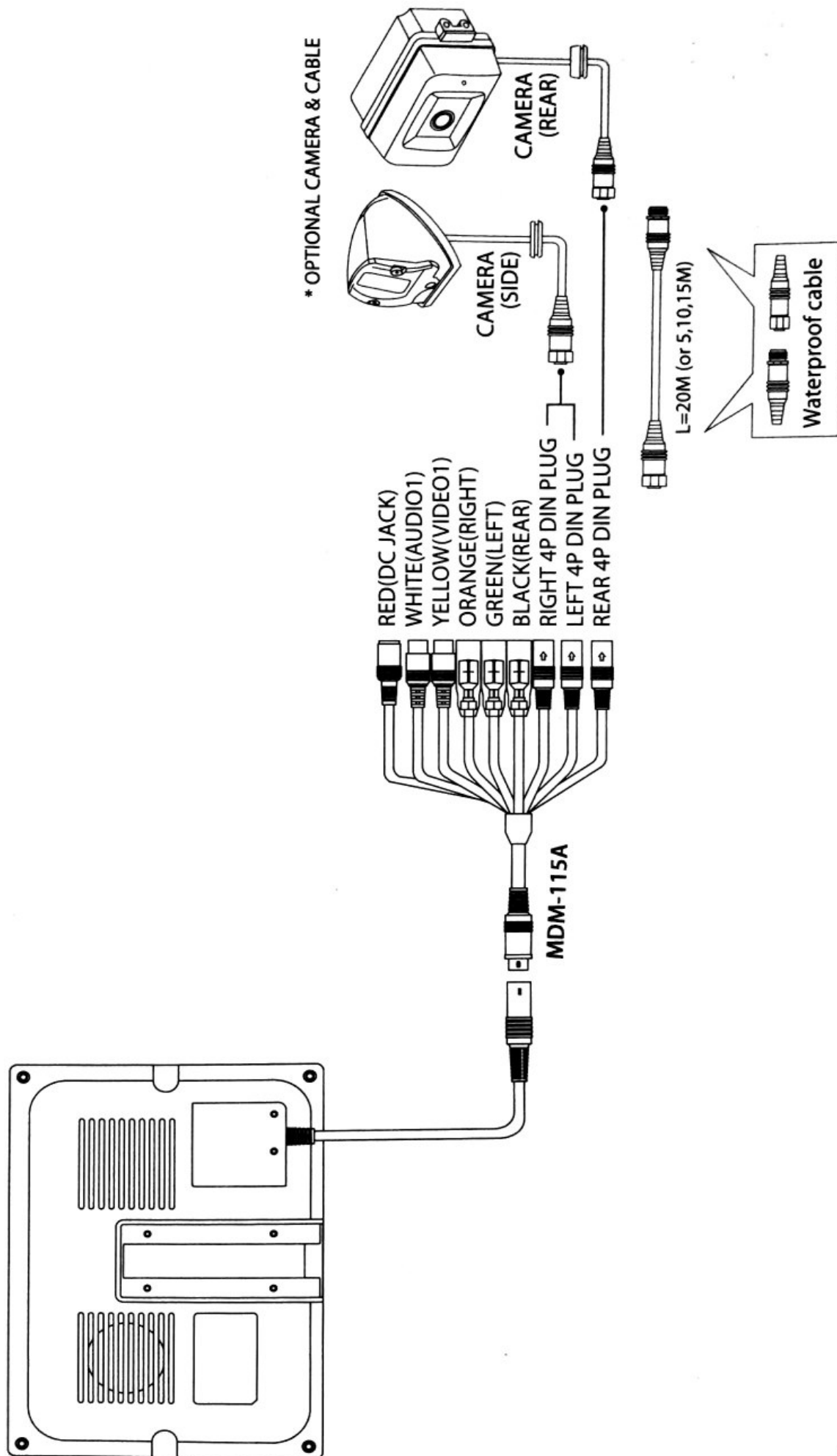
## 9 RECALL

REMOTE  
CONTROL



(1) Displaying the current mode and volume level.



## 7 Connection

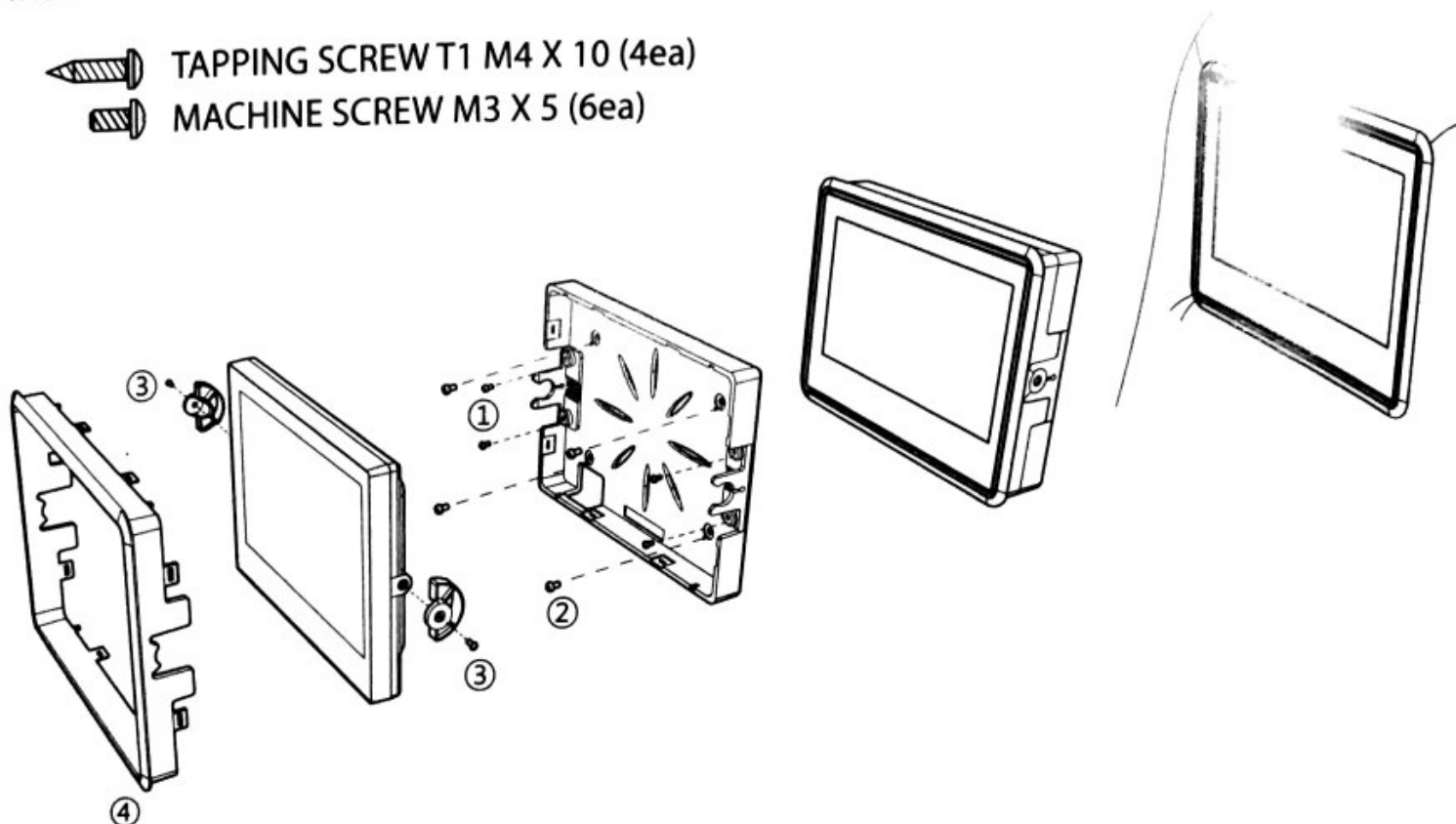


## 8 Installation

### 1 Inserting Type >>

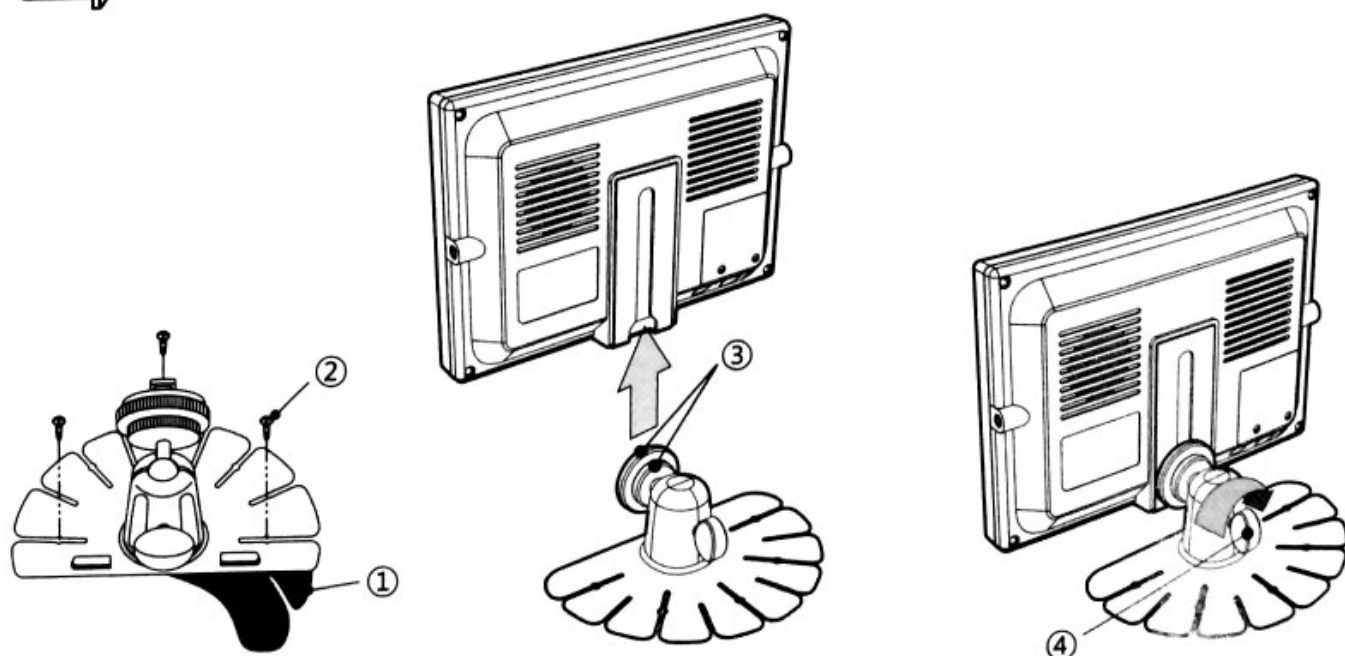
Appoint attaching place and put together the monitor and bracket as follows installation drawing. Insert combined monitor after arranging connector cable inside.

-  TAPPING SCREW T1 M4 X 10 (4ea)
-  MACHINE SCREW M3 X 5 (6ea)



### 2 Monitor installation with stand & sun visor >>

-  TAPPING SCREW T1 M4.0 X 12 (3ea)



- (1) Remove a protecting tape and attach stand place.
- (2) Fix a stand with tapping screw.
- (3) Connect stand and monitor and fix a height of monitor with fix knob.
- (4) Displaying the current mode and volume level.

## 9 Specifications

		NTSC	PAL
LCD Panel	Screen size	7 inch	
	Number of pixel	800(W) x 3(RGB) x 480(H)	
	Brightness	400 NIT	
	Contrast ratio	500 : 1	
	View angle(L/R/U/D)	70/70/50/70	
Power supply	Voltage	DC 12V-24V	
	Current	450mA (DC 12V, monitor set only)	
	Input system	AUTO (NTSC/PAL)	
Frequency	Horizontal	15.734 KHz	15.625KHz
	Vertical	60 Hz	50 Hz
Input signal	Video signal	Composite video signal	
	Audeo signal	MONO signal 400mVrms	
	Speaker	0.5Watt max	
	Language display selection	7 Language	
	User controls	Power, Mode, Menu, Up, Down, AV	
	Operating temperature	14°F~140°F (-10°C~60°C)	
	Storage temperature	-4°F~158°F (-20°C~70°C)	
Dimension(W x H x D)		7.9(W) x 4.76(H) x 1.21(D) inch	
		201(W) x 121(H) x 30.7(D) mm	
	Weight	1 lb (500g)	