INSTRUCTION MANUAL
8INCH REAR VIEW MONITOR
MTB-8300D

Before use this unit, Please read this manual carefully!

CONTENTS

1. SAFETY PRECAUTIONS

WARNINGS

Do not watch and operate the TV/Video monitor while driving.
It may cause a car accident because of the distraction.

Do not install the TV/Video monitor on a place where obstruct the driver's viewing or near and airbag device.
(with a bad viewing angle, it will cause an accident easily)

Do not attempt to service this unit by yourself when it breaks down.
(Do not attempt to repair this unit by yourself to avoid serious damage)

Keep away the liquid from the main body to avoid possible electric shock or damage.

Do not disassemble, heat, fire, recharge or short-cut the batteries of the remote control.

In case of smoking rare odor from the TV/Video monitor, power off this monitor immediately and contact with the dealer for service.

Do not apply pressure to the screens surface.

When cleaning the TV/Video monitor, use only lightly dampened lint free cloth to wipe the screen if it is dirty.

Do not use any cleaning fluids, abrasive cleaner or solvents to clean the screen as they may scratch/damage the screen.

Lock the LCD screen in the fully closed position when not in use.

SAFETY PRECAUTION

Adjust the volume to a moderate level to hear the noise from the outside while driving.

Do not watch TV or Video while the car's engine is off.
(It may drain the car battery)

Avoid from direct sunshine, heat or moisture when installing this unit.

Do not open the monitor body to avoid electric shock.

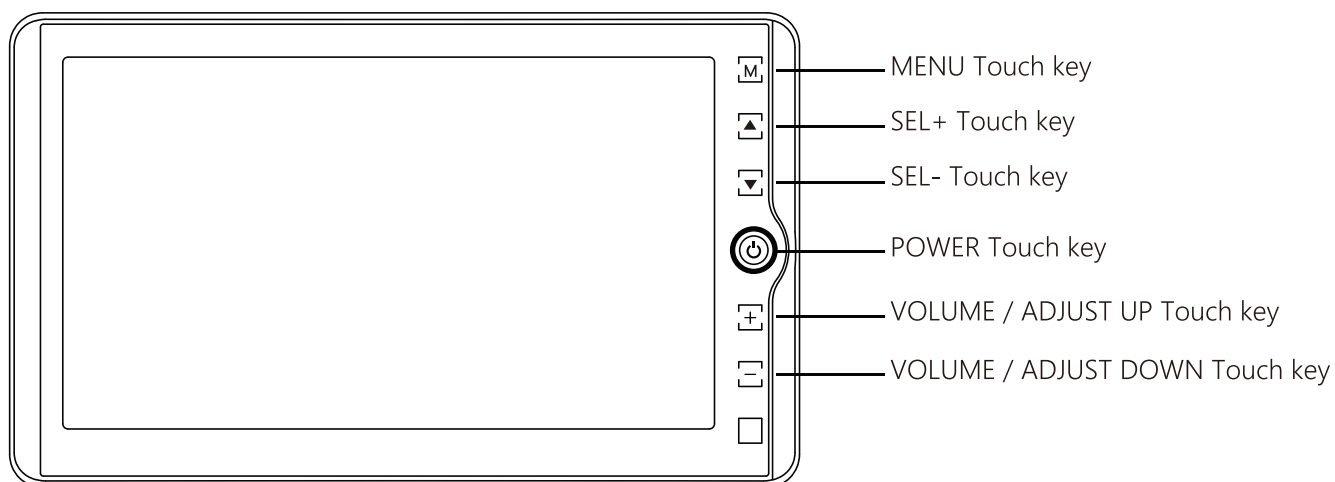In case of changing fuse or battery, use proper one to avoid malfunction.
When installing on the board, use included screws to fix mounting plate tightly.

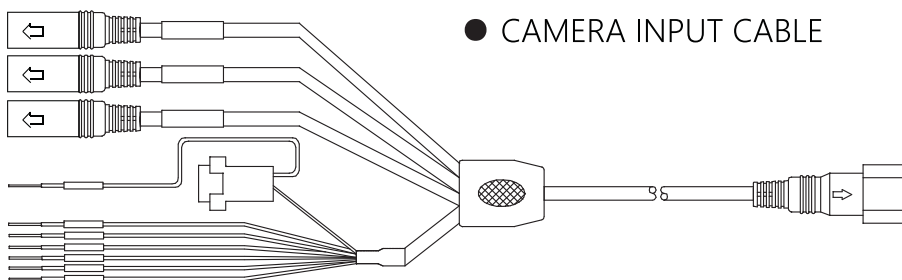Keep the monitor screen from the children to avoid possible LCD breakage.
Do not compel to flip down this monitor by force, it may cause breakage of main body.
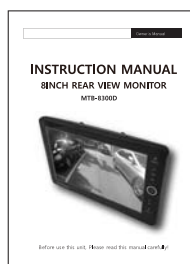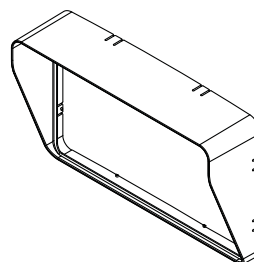
2. PRODUCT COMPOSITION

● MONITOR

MENU Touch key

SEL+ Touch key
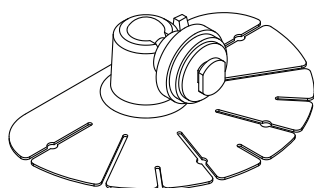
SEL- Touch key

POWER Touch key

VOLUME / ADJUST UP Touch key

VOLUME / ADJUST DOWN Touch key

● CAMERA INPUT CABLE

● INSTRUCTION MANUAL

INSTRUCTION MANUAL
8INCH REAR VIEW MONITOR
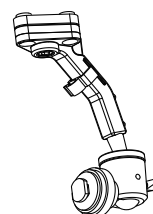MTB-8300D

Before use this unit, Please read this manual carefully

● SUN SHIELD

● ON DASH STAY

● ROOM MIRROR STAY(OPTION)

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3. CONNECTION

MINI DIN 4P (FEMALE)

| Pin No. CAMERA No.	1	2	3	4	5
CAMERA1	AUDIO	DC12V	VIDEO	DC9V	GND
CAMERA2	AUDIO	DC12V	VIDEO	DC9V	GND
CAMERA3	AUDIO	DC12V	VIDEO	DC9V	GND
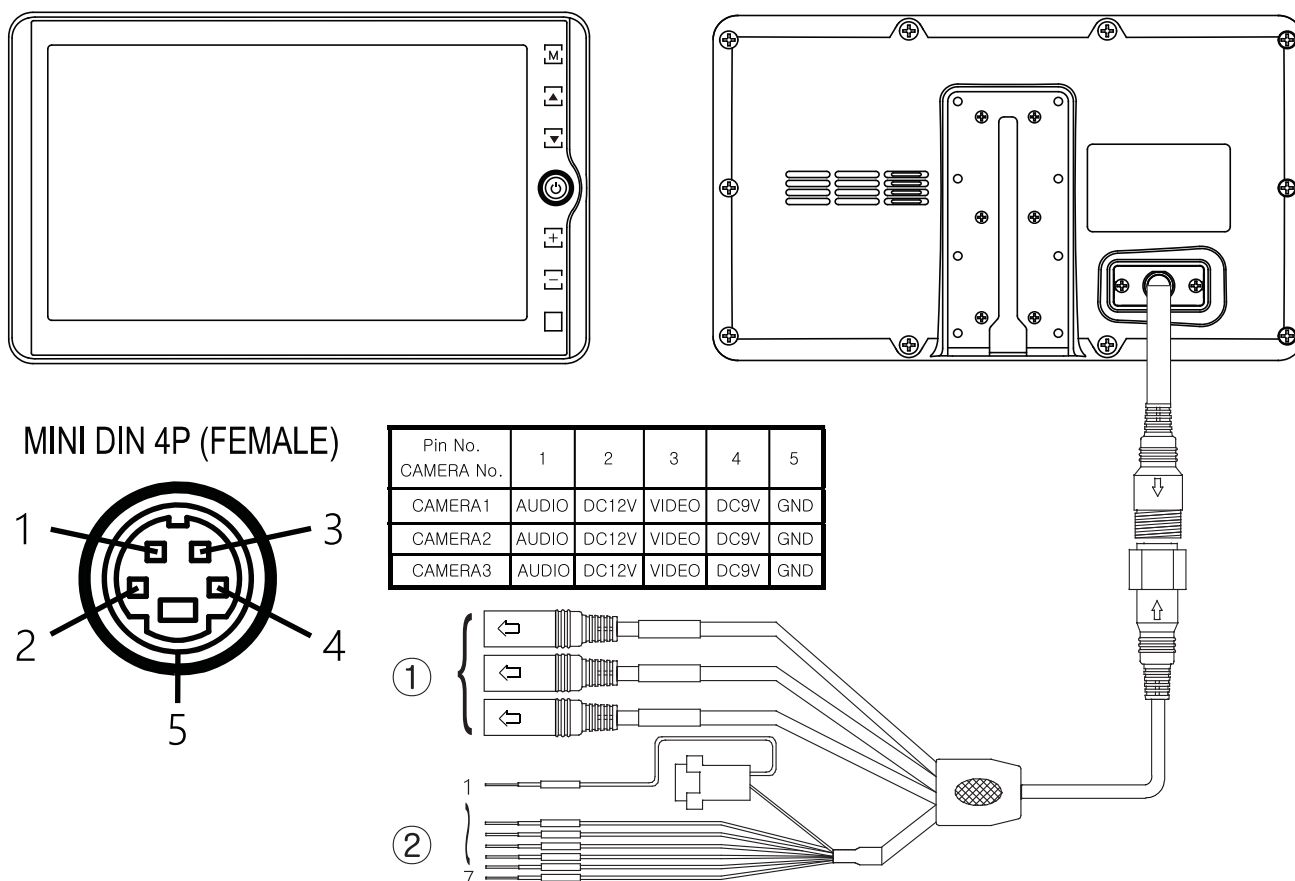
The A/V controller is designed to allow the installation of optional additional monitor.
    ① Connect rear camera to the cam3 Mini Din jack.
    ② Connect power source & Trigger input cable follows

    1. RED wire : DC +10~30V
    2. BLACK wire : GND
    3. GREEN wire : TRIGGER 1 INPUT (DC10V~30V)
    4. WHITE wire : TRIGGER 2 INPUT (DC10V~30V)
    5. BLUE wire : TRIGGER 3 INPUT (DC10V~30V)
    6. ORANGE wire : SPEED SWITCH INPUT (DC10V~30V)
    7. BROWN wire : SHUTTER MEMORY WIRE INPUT (DC10V~30V)

4. INSTALLATION OF BRACKET, SUNSHIELD

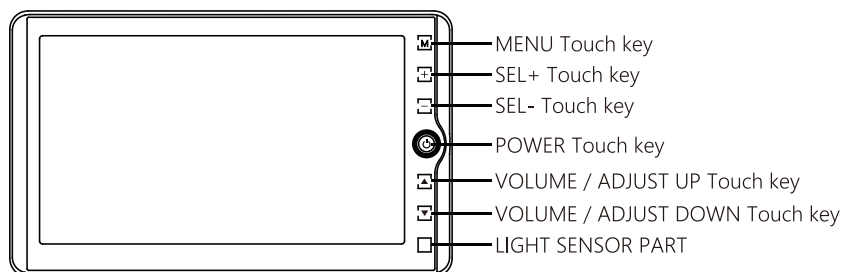### ① ON DASHBOARD STAND   ② ROOM MIRROR STAY
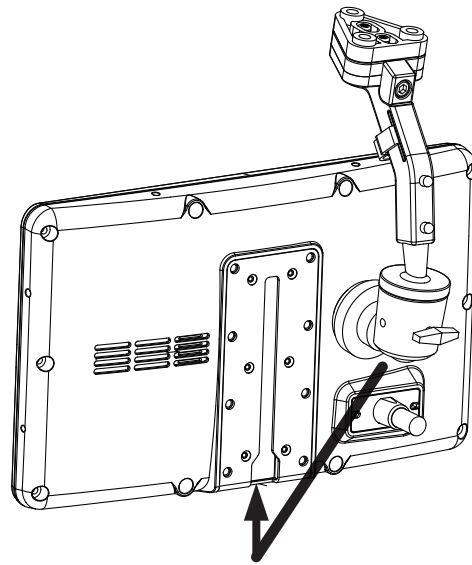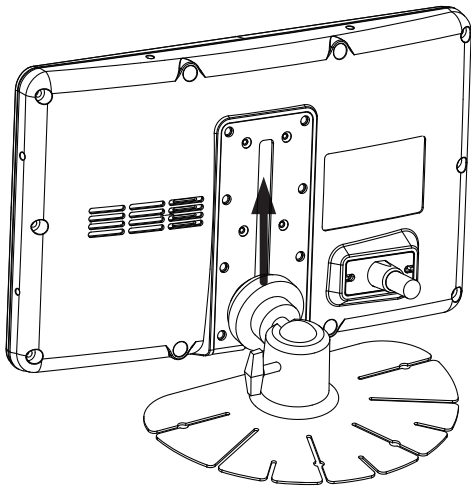
③ SUNSHIELD

By setting up Monitor with the Sun Shield
which has the guide for protection,
the Monitor will be shield off the direct
sunlight.

The Sun Shield will offer visual comfort for
driving and will make driving safer & more
comfortable.

Also, the Sun Shield will give the drivers
a great help to protect them from injury.

5. OPERATION WITH THE BUTTONS ON MONITOR

MENU Touch key
SEL+ Touch key
SEL- Touch key
POWER Touch key
VOLUME / ADJUST UP Touch key
VOLUME / ADJUST DOWN Touch key
LIGHT SENSOR PART

① Press the POWER Key [⏻] to turn system ON.
② Press the MENU Key [M] short time to display the picture menu.
③ Press the UP/DOWN Keys [▲ ▼] adjust level.

BRIGHTNESS   **CONTRAST**   **SATURATION**   **HUE**

BRIGHTNESS : [AUTO]   50   ⇔   CONTRAST   :   50   ⇔   SATURATION :   50   ⇔   HUE   :   50

[**Manually adjust the monitor screen BRIGHTNESS**]

To adjust the brightness of the monitor screen manually,
set DAY / NIGHT AUTO function in the DAY / NIGHT setting menu to OFF.
The factory default setting is DAY / NIGHT function is set to AUTO,
so brightness can not be adjusted.

[SETUP MENU]

1. DAY/NIGHT CONTROL

1.DAY/NIGHT CONTROL
DAY/NIGHT   [AUTO⇒OFF]

④ Press the MENU Key [M] long time to display the Setup menu.
⑤ Press the SEL Key [▲ ▼] to the sub menu select.
⑥ Press the Up Key [+] to display the sub menu.
⑦ Press the UP/DOWN Keys [+ –] adjust level or mode select.
⑧ Menu OSD disappears if any Key concerned Menu Mode are not
pressed for 5secons on Menu Mode.

[SETUP MENU]

1. DAY/NIGHT CONTROL
2. CAMERA SETTINGS
3. TRIGGER SETTINGS
4. PARKING LINE SETTINGS
5. SPEED SWITCH
6. AUTOSCAN
7. ADVANCED MENU
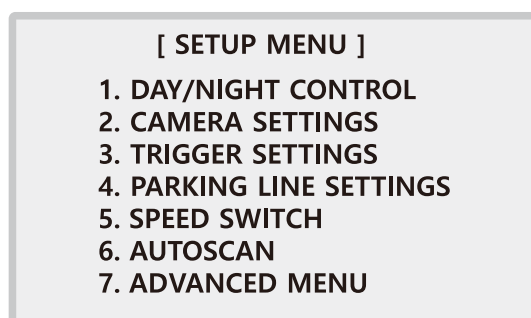
6. DAY/NIGHT CONTROL

[SETUP MENU]

1. DAY/NIGHT CONTROL
2. CAMERA SETTINGS
3. TRIGGER SETTINGS
4. PARKING LINE SETTINGS
5. SPEED SWITCH
6. AUTOSCAN
7. ADVANCED MENU

1.DAY/NIGHT CONTROL
DAY/NIGHT   [AUTO]   AUTO/OFF
DAY/NIGHT LEVEL   25   0~100
NIGHT BRIGHT   40   0~100

① Press the MENU Key [M] long time to display the Setup menu.
② Press the UP/DOWN Keys [+ −] to display DAY/NIGHT CONTROL menu.
③ Press the SEL keys [▲ ▼] DAY/NIGHT,DAY/NIGHT LEVEL,
NIGHT BRIGHT mode select.
④ Press the UP/DOWN Keys [+ −] adjust level or mode select.

7. CAMERA SETTINGS

[SETUP MENU]

1. DAY/NIGHT CONTROL
2. CAMERA SETTINGS
3. TRIGGER SETTINGS
4. PARKING LINE SETTINGS
5. SPEED SWITCH
6. AUTOSCAN
7. ADVANCED MENU

2.CAMERA SETTINGS   MIRROR
CAM1 NOR/MIR   [MIRROR] /NORMAL
CAM2 NAME   [CAM1]
CAM3 AUDIO   [ON]   ON/OFF

① Press the MENU Key [M] long time to display the Setup menu.
② Press the SEL Keys [▲ ▼] to the CAM1,CAM2,CAM3 select.
③ Press the UP/DOWN Keys [+ −] to move for NOR/MIR,NAME.
At the NOR/MIR, Press the UP/DOWN Keys [+ −] to change
MIRROR/NORMAL .
Press the SEL Keys [▲ ▼] to move for NAME.
At the NAME, Press the UP/DOWN Keys [+ −] to change NAME .
⑤ Press the MENU Key [M] back to the SETUP MENU.

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8. TRIGGER SETTINGS

```
        [ SETUP MENU ]

  1. DAY/NIGHT CONTROL
  2. CAMERA SETTINGS
  3. TRIGGER SETTINGS
  4. PARKING LINE SETTINGS
  5. SPEED SWITCH
  6. AUTOSCAN
  7. ADVANCED MENU
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3.TRIGGER SETTINGS
DELAY 1          :[  2SEC]    OFF,1~20
DELAY 2          :[  2SEC]    OFF,1~20
DELAY 3          :[  2SEC]    OFF,1~20
AUDIO 1          :[  10]      OFF,1~20
AUDIO 2          :[  10]      OFF,1~20
AUDIO 3          :[  10]      OFF,1~20
SP SW AUDIO      :[  10]      OFF,1~20
```

① Press the MENU Key [M] long time to display the Setup menu.
② Press the SEL Keys [▲ ▼] to the TRIGGER SETTINGS menu select.
③ Press the UP/DOWN Keys [+ −] to display TRIGGER SETTINGS menu.
④ Press the UP/DOWN Keys [+ −] delay time select.

9.PARKING LINE SETTINGS

```
        [ SETUP MENU ]

  1. DAY/NIGHT CONTROL
  2. CAMERA SETTINGS
  3. TRIGGER SETTINGS
  4. PARKING LINE SETTINGS
  5. SPEED SWITCH
  6. AUTOSCAN
  7. ADVANCED MENU
```

```
4.PARKING LINE SETTINGS
PARKING LINE    [  /¯\  ] /¯\ / ‾ /OFF
SOURCE          [CAM1 ]   CAM1~3
WIDE                      >
POSITION                  >
```

① Press the MENU Key [M] long time to display the Setup menu.
② Press the SEL Keys [▲ ▼] to the PARKING LINE SETTINGS menu select.
③ Press the UP/DOWN Keys [+ −] to display PARKING LINE SETTINGS menu.
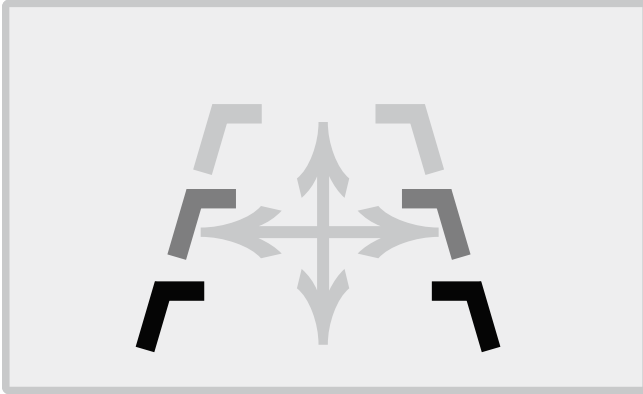④ Press the UP/DOWN Keys [+ −] move to menu select.
   PARKING LINE, select of two types of parking lines.
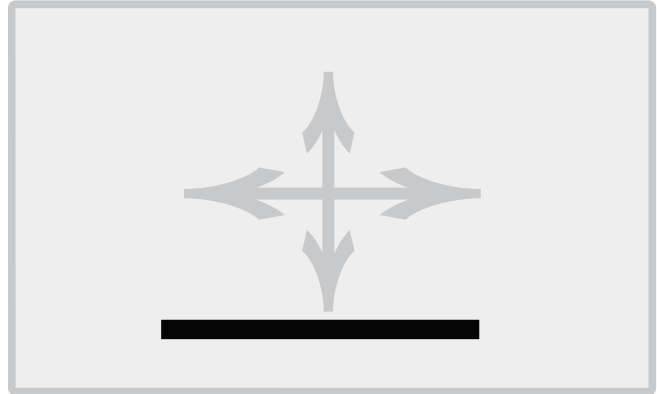   SOURCE, Select the cam to show the parking line.
   WIDTH, Adjust the parking line thickness.
   POSITION, Adjust the position of the parking line.

PARKING LINE TYPE 1

PARKING LINE TYPE 2

10. SPEED SWITCH

[SETUP MENU]

1. DAY/NIGHT CONTROL
2. CAMERA SETTINGS
3. TRIGGER SETTINGS
4. PARKING LINE SETTINGS
5. SPEED SWITCH
6. AUTOSCAN
7. ADVANCED MENU

5.SPEED SWITCH

SPEED SWITCH	:[OFF] ON/OFF
FREQUENCY	:[67Hz] 0~200Hz
UNDER FREQ. CAM	:[CAM1] CAM1~3
OVER FREQ. DISPLAY	:[OFF] ON/OFF
OVER FREQ. CAM	:[CAM2] CAM1~3

① Press the MENU Key [M] long time to display the Setup menu.
② Press the SEL Keys [+ −] to the SPEED SWTICH MODE menu select.
③ Press the UP/DOWN Keys [▲ ▼] to display SPEED SWITCH MODE menu.
④ Press the SEL Keys [+ −] each menu select.
⑤ Press the UP/DOWN Keys [▲ ▼] mode select.
    SPEED SWITCH : ON/OFF select
    FREQUENCY : adjust a speed frequency
    UNDER FREQ. CAM : CAM1 ~ 3
    OVER FREQ. DISPLAY : ON/OFF selectable
   OVER FREQ CAM : CAM1 ~ 3

11. AUTO SCAN

```
[ SETUP MENU ]

1. DAY/NIGHT CONTROL
2. CAMERA SETTINGS
3. TRIGGER SETTINGS
4. PARKING LINE SETTINGS
5. SPEED SWITCH
6. AUTOSCAN
7. ADVANCED MENU
```

```
6.AUTOSCAN

AUTO SCAN    : [ OFF]    ON,OFF
SCAN CAM1    : [ 3SEC]   OFF,1~20
SCAN CAM1    : [ 3SEC]   OFF,1~20
SCAN CAM1    : [ 3SEC]   OFF,1~20
```

① Press the MENU Key [M] long time to display the Setup menu.
② Press the SEL Keys [▲ ▼] to the AUTO SCAN select.
③ Press the UP/DOWN Keys [+ −] to display AUTO SCAN.
④ Press the SEL Keys [▲ ▼] AUTO SCAN, SCAN DELAY TIME select .
⑤ Press the UP/DOWN Keys [+ −] scan mode scan time select.

12. ADVANCED MENU

```
[ SETUP MENU ]

1. DAY/NIGHT CONTROL
2. CAMERA SETTINGS
3. TRIGGER SETTINGS
4. PARKING LINE SETTINGS
5. SPEED SWITCH
6. AUTOSCAN
7. ADVANCED MENU
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```
7. ADVANCED MENU
1. DISPLAY       : [ FULL ]  FULL/NORMAL
2. UP/DOWN     : [ UP ]     UP/DOWN
3. AUTO POWER : [ OFF ]    ON/OFF
4. LANGUAGE    : [ENGLISH] ENG/NED/SWE
5. AUDIO MUTE : [ ON ]     ON/OFF
```

① Press the MENU Key [M] long time to display the Setup menu.
② Press the SEL Keys [▲ ▼] to the ADVANCED MENU select.
③ Press the UP/DOWN Keys [+ −] to display ADVANCED MENU.
④ Press the SEL Keys [▲ ▼] AUTO POWER,VIDEO SYSTEM,AUDIO MUTE,
     LANGUAGE,FACTORY RESET menu select .
⑤ Press the UP/DOWN Keys [+ −] mode select.

13. LOCK ON/OFF FUNCTION

LOCK ON/OFF FUNCTION
The set up menu can be locked as prevention against unauthorized users.

LOCK ON mode
At **Power-ON** mode, hold [⊟] button pressed for 10 seconds
to set up **LOCK ON** function.
When [**LOCKED**] is displayed on the screen, user can use [**POWER, SELECT, VOLUME**] buttons only and use can do setting
for **PICTURE** menu.

LOCK OFF mode
At **Power-ON** mode, hold [⊟] button pressed for 10 seconds
to set up **LOCK OFF** function.
When [**UNLOCKED**] is displayed on the screen, user can use
all functions of the set up menu.

14. SPECIFICATION

DISPLAY TYPE	8INCH LCD MONITOR
BACKLIGHT TYPE	24LEDS
POWER SOURCE	DC+10V~30V
VIDEO SYSTEM	PAL/NTSC AUTO DETECT
OPERATING TEMP.	-20℃~+70℃
STORAGE TEMP.	-30℃~+80℃
SCANNING LINE	800× RGB × 480
DOT PITCH	0.0736(W) × 0.2070(H)mm
LUMINANCE	450cd/m²(INNOLUX)
VIEW ANGLE	50/70/70/70(INNOLUX)
FEATURES	3 REAR VIEW CAMERA INPUT
	3 TRIGGER INPUT
	1 SPEED SWITCH INPUT
	1 SHUTTER MEMORY WIRE INPUT
	1W 8Ohm speaker
DIMMENSIONS	223(W) × 136.8(V) × 27.5(D) mm
WEIGHT	650g
ACCESSORIES	CAMERA INPUT CABLE
	INSTRUCTION MANUAL
	ON DASH STAY
	SUN SHIELD

15.TROUBLE SHOOTING GUIDE

Check the following detail before requesting for any warranty service, as the specified problems can be solved by refering to them as a first step.
If can not fix up through the following procedure, please contact your dealer.

PROBLEMS	TRY AS BELOWS FOR SOLUTION
Picture on, but no sound	★ Check volume level, Mute function ★ Check the input connection of AV source Input
No picture or sound	★ Check the input connection of AV source Input
Remote control doesn't work	★ Avoiding using this product under strong & diret sunlight ★ Place this product in the same direction of remote control reception and use remote control within 5 meter ★ Check the bettery of remote control is good or replace whit new battery ★ The battery life can be shortened if the product is placed under the direct sunlight or in an automobile for long period
No full color	★ Check the image menu and adjust the color & tint level
Heat on LCD panel	★ A certain level of heat generation from TFT LCD comes characteristically ★ If too much heat, power

MEMO