

INSTRUCTION MANUAL

8INCH QUAD MONITOR

MTB-8400QD



Before use this unit, Please read this manual carefully!

CONTENTS

1. SAFETY PRECAUTIONS
2. PRODUCT COMPOSITION
3. CONNECTION
4. HOT TOUCH KEY CONTROL
5. OPERATION WITH THE BUTTONS ON MONITOR
6. DAY/NIGHT CONTROL
7. CAMERA SETTINGS
8. TRIGGER SETTINGS
9. PARKING LINE SETTINGS
10. SPLIT MODE
11. SPEED SWITCH
12. ADVANCED MENU
13. AUTO SCAN
14. LOCK ON/OFF FUNCTION
15. SPECIFICATION
16. TROUBLE SHOOTING GUIDE

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.

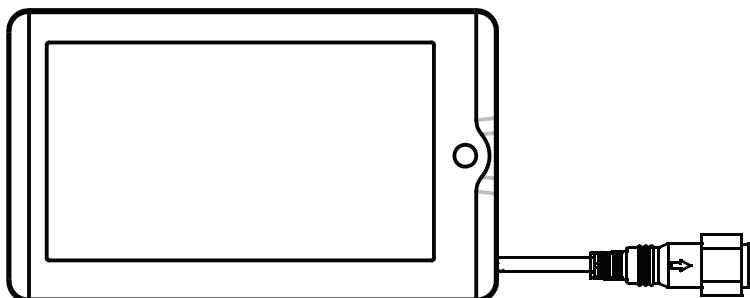
When installing on the board, use included screws to fix mounting plate tightly.

Keep the monitor screen from the children to avoid possible LCD breakage.

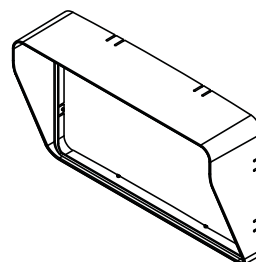
Do not compel to flip down this monitor by force, it may cause breakage of main body.

2. PRODUCT COMPOSITION

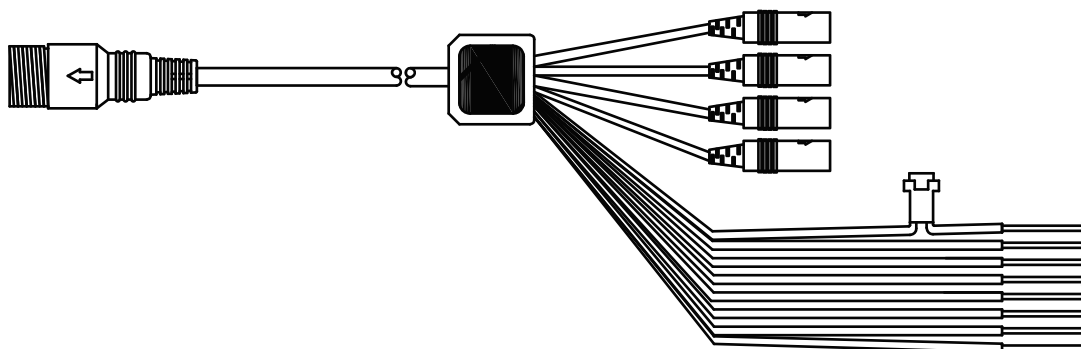
MONITOR set



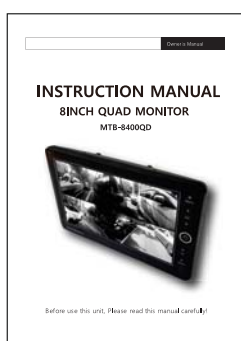
SUN SHIELD



CAMERA INPUT CABLE



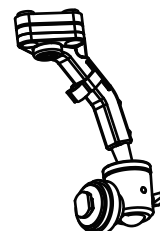
MANUAL



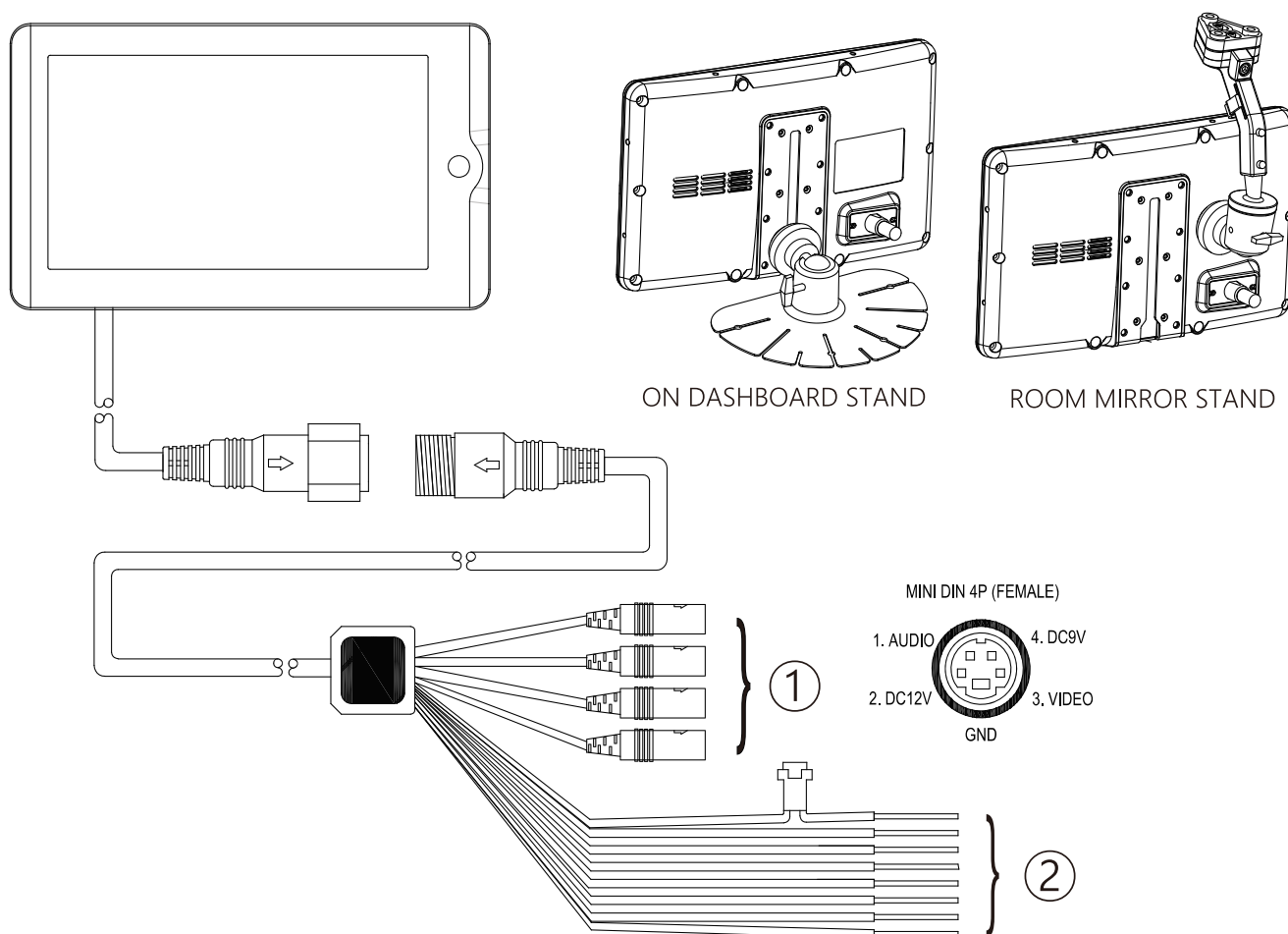
ON DASHBOARD
STAND



ROOMMIRROR STAND
(OPTION)



3. CONNECTION



The A/V controller is designed to allow the installation of optional additional monitor.

① Connect rear camera to the cam4 Mini din jack.

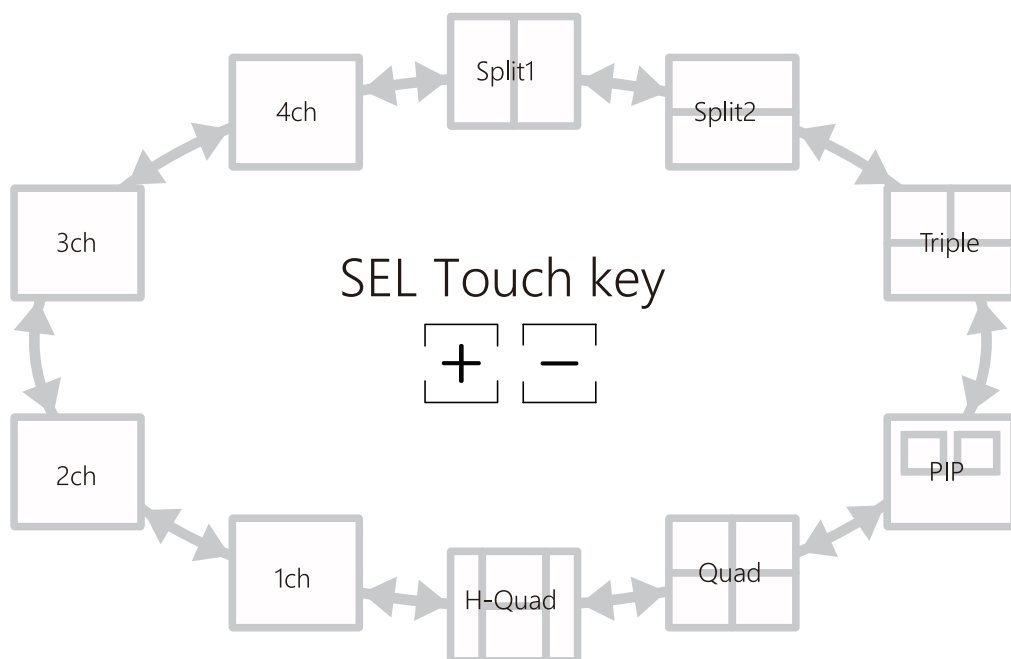
② Connect power source & Trigger input cable follows

<TRIGGER INPUT SEPC>

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. YELLOW wire : TRIGGER 4 INPUT (DC10V~30V)
7. ORANGE wire : SPEED SWITCH INPUT (DC10V~30V)
8. BROWN wire : SHUTTER MEMORY WIRE INPUT (DC10V~30V)

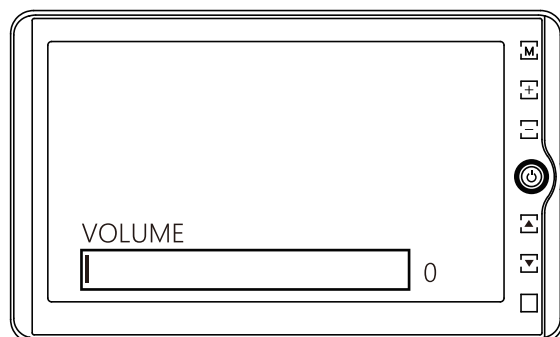
4. HOT TOUCH KEY CONTROL

© CHANNEL CHANGE

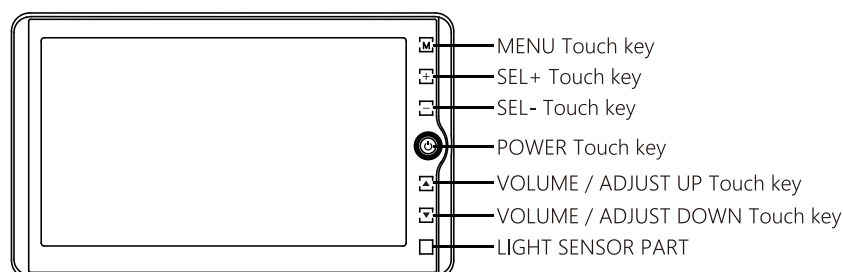


© VOLUME CONTROL

VOLUME UP DOWN Touch key



5. OPERATION WITH THE BUTTONS ON MONITOR



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

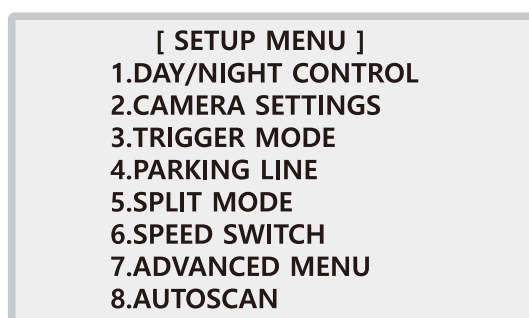


[Manually adjust the monitor screen BRIGHTNESS]

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.



- ④ Press the MENU Key [] 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 5secs on Menu Mode.










6. DAY/NIGHT CONTROL

[SETUP MENU]

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

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 [] 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 MODE
- 4.PARKING LINE
- 5.SPLIT MODE
- 6.SPEED SWITCH
- 7.ADVANCED MENU
- 8.AUTOSCAN

2.CAMERA SETTINGS

CAM1 NOR/MIR	[MIRROR]	MIRROR/NORMAL
CAM2 UP/DOWN	[UP]	UP/DOWN
CAM3 NAME	CAM1	
CAM4 AUDIO	[ON]	ON/OFF

- ① Press the MENU Key [] 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 [] back to the SETUP MENU.

8. TRIGGER SETTINGS

[SETUP MENU]

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

3.TRIGGER SETTINGS

TRIGGER1	SOURCE [SPLIT1]	——	CAM1~4
TRIGGER2	DELAY [2SEC]	OFF,1~20	SPLIT1,2
TRIGGER3	AUDIO [CAM1]	CAM1~4	TRIPLE
TRIGGER4	VOLUME [10]	OFF,1~20	PIP
			QUAD
			HQUAD

- 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]

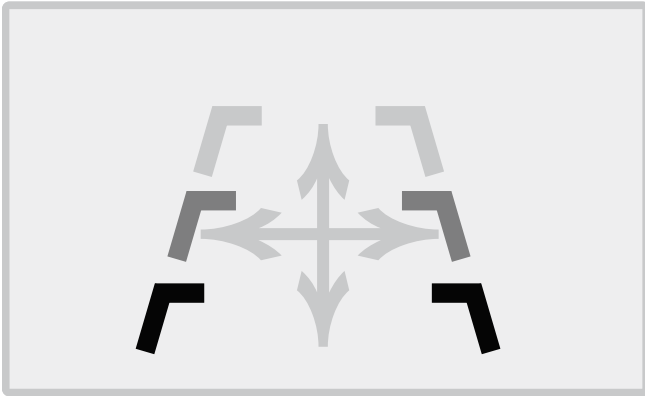
- 1.DAY/NIGHT CONTROL
- 2.CAMERA SETTINGS
- 3.TRIGGER MODE
- 4.PARKING LINE
- 5.SPLIT MODE
- 6.SPEED SWITCH
- 7.ADVANCED MENU
- 8.AUTOSCAN

4.PARKING LINE SETTINGS

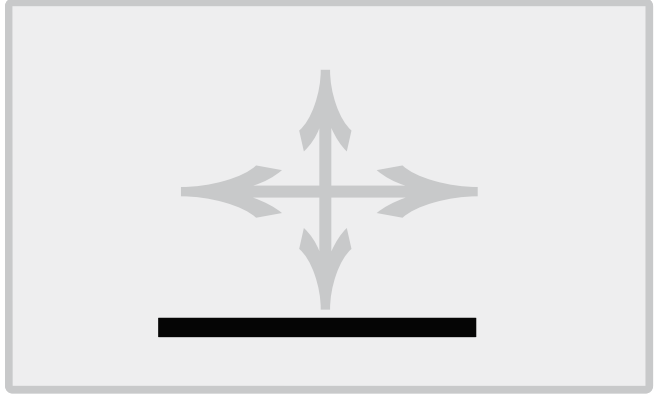
PARKING LINE	[]	 / — / OFF
SOURCE	[CAM1]	CAM1~4
WIDE	>	
POSITION	>	

- 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. SPLIT MODE

[SETUP MENU]

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

5.SPLIT MODE

- | | | | |
|---------|---------|----------|--------|
| SPLIT 1 | SOURCE1 | [CAM1] | CAM1~4 |
| SPLIT 2 | SOURCE2 | [CAM2] | CAM1~4 |
| TRIPLE | SOURCE3 | [CAM3] | CAM1~4 |
| PIP | SOURCE4 | [CAM4] | CAM1~4 |
| QUAD | AUDIO | [CAM1] | CAM1~4 |
| H-QUAD | | | |

- ① Press the MENU Key [] long time to display the Setup menu.
- ② Press the SEL Keys [] to the SPLIT MODE menu select.
- ③ Press the UP/DOWN Keys [] to display SPLIT MODE menu.
- ④ Press the SEL Keys [] each menu select.
- ⑤ Press the UP/DOWN Keys [] SPLIT source select.












11. SPEED SWITCH

[SETUP MENU]

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

6.SPEED SWITCH

SPEED SWITCH	[OFF]	ON/OFF
FREQUENCY	[67]Hz	0~200
UNDER FREQ.	[CAM3]	CAM1~HQUAD
OVER FREQ. DISPLAY	[OFF]	ON/OFF
OVER FREQ. CAM	[CAM1]	CAM1~H-QUAD

- ① Press the MENU Key [] long time to display the Setup menu.
- ② Press the SEL Keys [ ] to the SPEED SWITCH 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 ~ 4, Split1~2, Triple, PIP, Quad, H-Quad selectable
 OVER FREQ. DISPLAY : ON/OFF selectable
 OVER FREQ. CAM : CAM1 ~ 4, Split1~2, Triple, PIP, Quad, H-Quad selectable










12. ADVANCED MENU

[SETUP MENU]

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

7. ADVANCED MENU

AUTO POWER	[ON]	ON/OFF
VIDEO SYSTEM	[PAL]	PAL/NTSC
AUDIO MUTE	[OFF]	ON/OFF
LANGUAGE	[ENGLISH]	ENGLISH/ NEDERLANDS/ SVENSKA
FACTORY RESET	>	

- ① Press the MENU Key [] 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. AUTO SCAN

[SETUP MENU]

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

8.AUTOSCAN

AUTOSCAN	[OFF]	H-QUAD	3SEC	OFF,1~20
SPLIT1	3SEC	CAM1	3SEC	OFF,1~20
SPLIT2	3SEC	CAM2	3SEC	OFF,1~20
PIP	3SEC	CAM3	3SEC	OFF,1~20
TRIPLE	3SEC	CAM4	3SEC	OFF,1~20
QUAD	3SEC			
				ON/OFF
				OFF,1~20
				OFF,1~20
				OFF,1~20
				OFF,1~20


- ① Press the MENU Key [] 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.

14. 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.

15. SPECIFICATION

DISPLAY TYPE	8INCH LCD MONITOR
BACKLIGHT TYPE	24LEDS
POWER SOURCE	DC+10V~30V
VIDEO SYSTEM	PAL/NTSC SELECTABLE
OPERATING TEMP.	-20°C ~ +70°C
STORAGE TEMP.	-30°C ~ +80°C
SCANNING LINE	800 × RGB × 480(V)
DOT PITCH	0.0736(W) × 0.2070(H)mm
LUMINANCE	450cd/m ² (INNOLUX)
VIEW ANGLE	50/70/70/70(INNOLUX)
FEATURES	4 REAR VIEW CAMERA INPUT
	4 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	710g
ACCESSORIES	CAMERA INPUT CABLE
	INSTRUCTION MANUAL
	ON DASH STAY
	SUN SHIELD

16.TROUBLE SHOOTING GUIDE

Check the following detail before requesting for any warranty service, as the specified problems can be solved by referring 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	<ul style="list-style-type: none"> ★ Check volume level, Mute function ★ Check the input connection of AV source Input
No picture or sound	<ul style="list-style-type: none"> ★ Check the input connection of AV source Input
Remote control doesn't work	<ul style="list-style-type: none"> ★ 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	<ul style="list-style-type: none"> ★ Check the image menu and adjust the color & tint level
Heat on LCD panel	<ul style="list-style-type: none"> ★ A certain level of heat generation from TFT LCD comes characteristically ★ If too much heat, power

MEMO