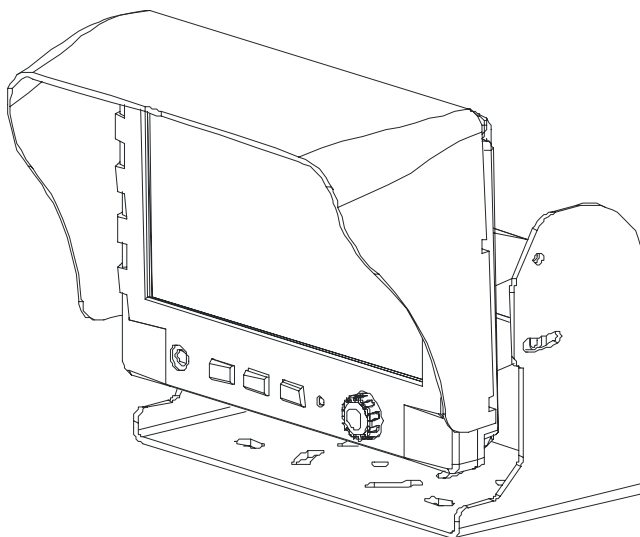


Thank you for purchasing our product.
Please read this User's Manual before
using the product.
Change without Notice

7" TFT LCD MONITOR USER MANUAL



e-4 CE FC

Safety Precautions

Federal Communications Commission (FCC) Statement

This Equipment 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 equipment 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 equipment 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 try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio / TV technician for help.
- You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received including interference that may cause undesired operation

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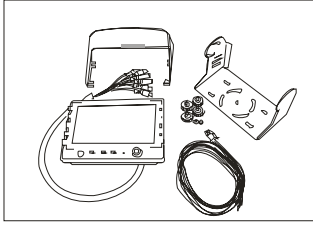
Feature

- Support up to 2 CCD Camera Inputs (Mini din Connector)
- Extra RCA Input for Multimedia (VCD, DVD, Game Device)
- Provide 1 Video / 1 Audio Signal Output
- Auto Detection for NTSC / PAL System
- Support Trigger : 3 (Back / Door / AV)
- Auto Brightness Adjustment by CDS
- Back Mirror Status Selection via OSD
- Video Output Select via OSD (Back / Door / AV)
- Power Latching
- Switch Timer (3-99 sec) Step Selection via OSD (Back / Door / AV)

1. Package Contents

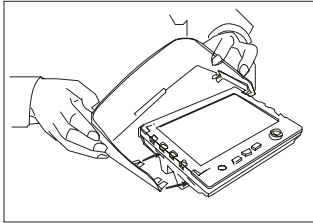
Item	Qty.
1. 7" LCD Monitor	1
2. Sun-hood	1
3. Mounting Bracket	1
4. Accessories	1
5. Control Cable	1
6. User Manual	1

2. TFT Installation



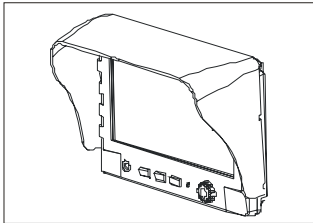
Step 1

Check the package and make sure all parts are included



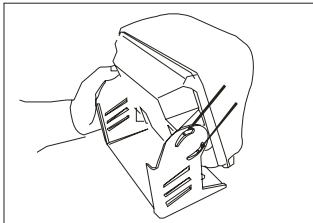
Step 2

Clip the sun-hood on to the monitor



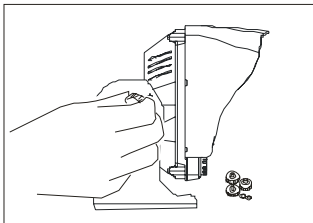
Step 3

Make sure it is installed properly



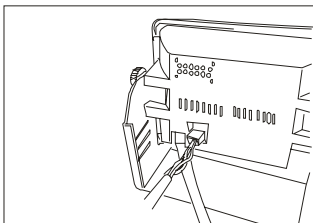
Step 4

Install the monitor on to the bracket



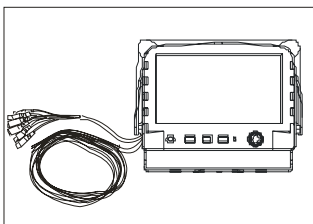
Step 5

Adjust the monitor to an appropriate / comfortable viewing angle before tightening the screws



Step 6

Connect the control cable included to the power socket which located at rear side of monitor

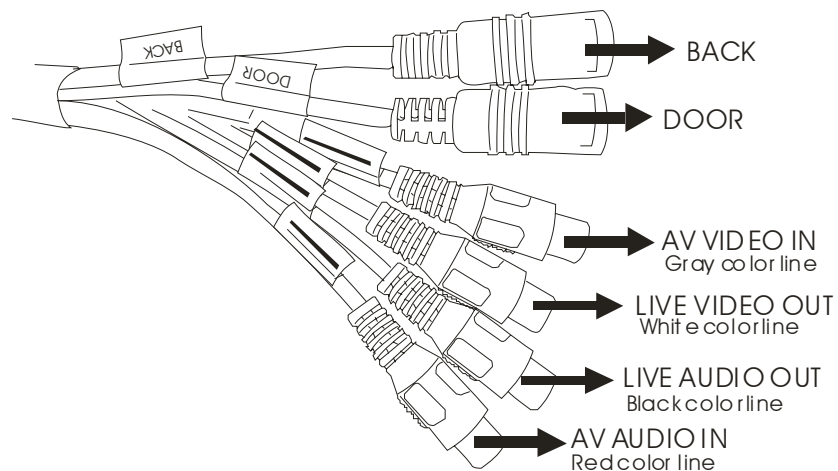


Step 7

Monitor installation is now completed.

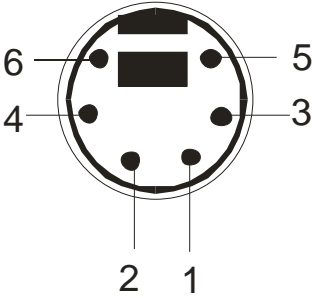
Each control cable wire is attached with a sticker to indicate its signal function. Referred to the identification sticker for further installation.

3. Signal Cable Description



1. DOOR (Mini din)
For first camera connection
2. BACK (Mini din)
Fixed for rear vision camera
3. LIVE VIDEO OUT (RCA – White Wire)
On screen video loop out (for recording, second monitor or other device)
4. LIVE AUDIO OUT (RCA – Black Wire)
On screen audio loop out (for recording, second monitor or other device)
5. AV VIDEO IN (RCA – Gray Wire)
Connection for any Video signal (DVD, VCD, Game)
6. AV AUDIO IN (RCA – Red Wire)
Connection for any Audio signal (such as DVD, VCD, Game)

● **Mini Din Pin Assignment**



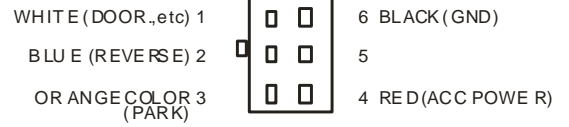
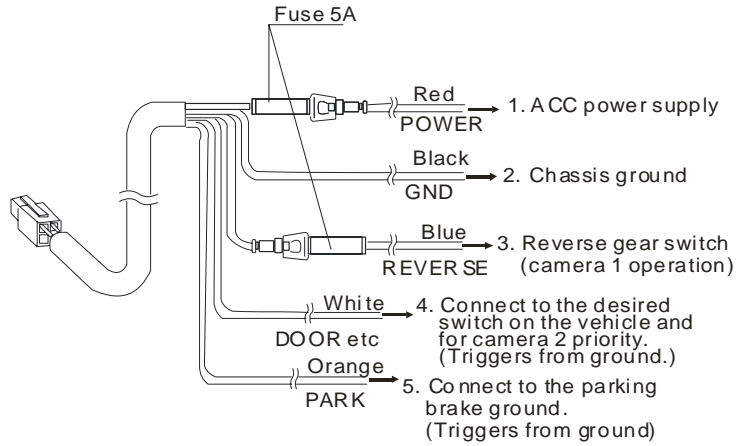
*** Type 1 (Standard):**

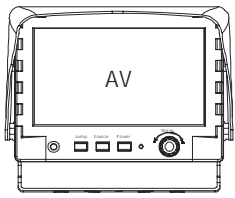
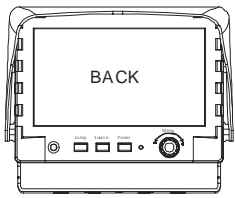
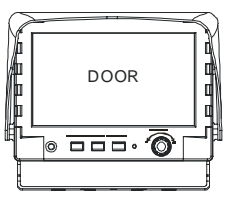
- 1. ----- 4. GND
- 2. ----- 5. +12V
- 3. Audio 6. Video

***Type 2 (Optional):**

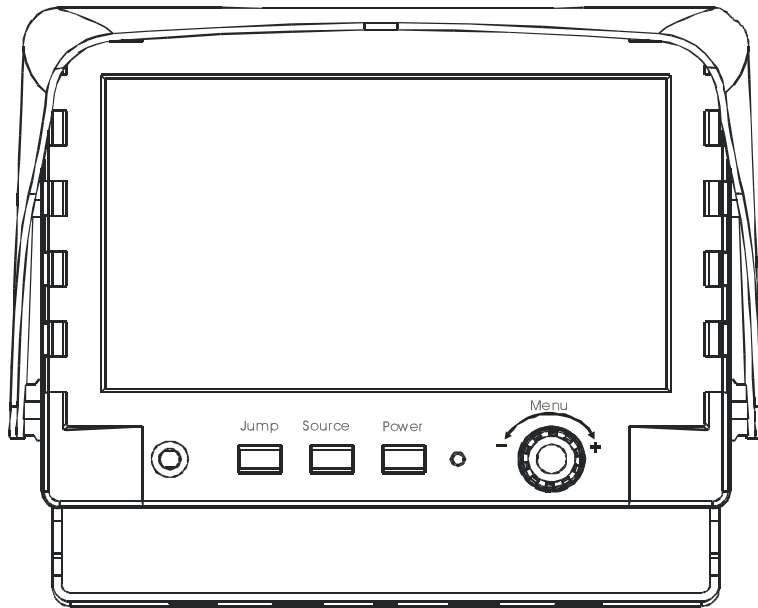
- 1. GND 4. +12V
- 2. ----- 5. -----
- 3. Video 6. Audio

4. Control cable Description



WIRE COLOR	FUNCTION	REMARK	ON SCREEN VIEW
RED	ACC POWER		
BLACK	GND		
ORANGE	Parking Control	Active GND	
BLUE	Reverse Control	Active Power Level Connect to Reverse	
WHITE	Door Control	Active Power Level Connect to Door	

5. Front Panel Control

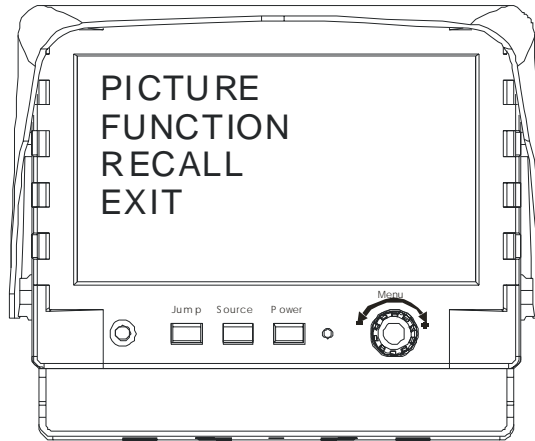


- POWER** Press the power button to activate the monitor or to keep the monitor under stand by mode. Red light for stand by, Green light is turn on.
- SOURCE** Press this button to select Back or Door image, it can select AV / BACK / DOOR image when the hand park is working.
- JUMP** Press this button, it can switch Back, Door or Video image via Camera/ Video Timer Step setup.
- MENU** When this button is not activate, user can turn left or right to adjust the Volume value.

OSD MENU

1. Press the MENU button to enter to the OSD Menu
2. Turn the MENU button left or right to select the setting you wish to proceed. The color of the content will turn YELLOW to identify your selection.
3. Press the MENU button again until the color of the content turns from Yellow to Red to enter system setting.
Turn the MENU button left or right to adjust your setting value.

Enter to Main menu:



PICTURE

The PICTURE set up contains different setting for the TFT:



BRIGHTNESS

Provide adjustment for the overall picture shade and brightness of TFT display. Setting value from 00 ~ 31.

CONTRAST

Provide adjustment for the contrast level of the TFT display between the light and dark areas. Setting value from 00 ~ 31.

COLOR

Provide adjustment for the color of TFT display between the light and dark area . Setting value from 00 ~ 31.

HUE

Provide adjustment for the picture TINT between light and dark area. Setting value from 00 ~ 31.

CAMERA TIMER STEP

Select BACK / DOOR switching time. Setting value from 03 ~ 99.

VIDEO TIMER STEP

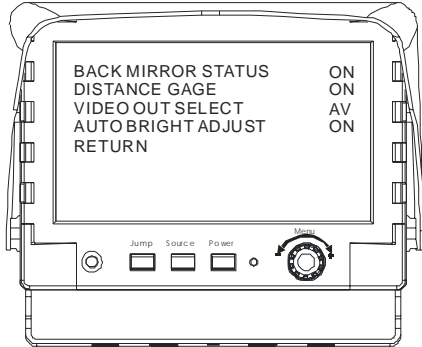
Select VIDEO switching time. Setting value from 00 ~ 99.

RETURN

Return to the previous screen.

FUNCTION

The FUNCTION set up contains the on screen identification and the activation of the distance gage.



BACK MIRROR STATUS

Set "ON" to setup the back mirror image of distance gage on screen.

DISTANCE GAGE

Set the distance gage "ON" to show the distance gage on screen while reserving or "OFF" to de-activate the distance gage. Default as "ON"

VIDEO OUT SELECT

Chose BACK / DOOR / AV for video out selection.

AUTO BRIGHT ADJUST

Set "ON" for auto adjustment the brightness by CDS.

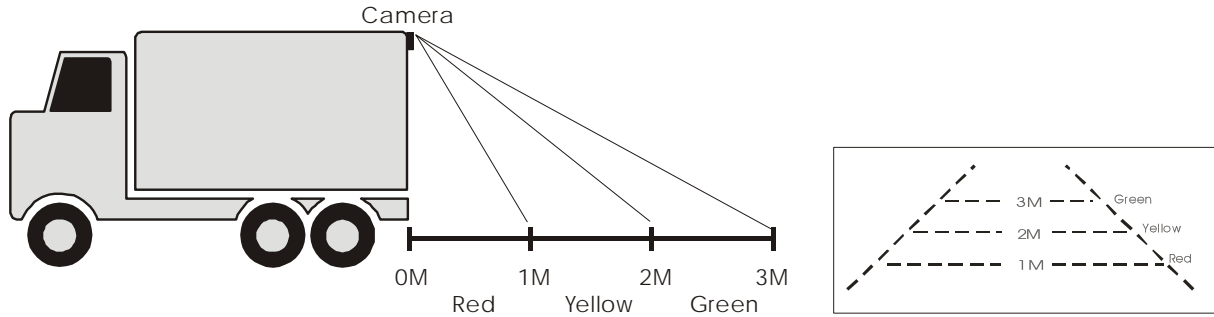
RETURN

Return to the previous screen.

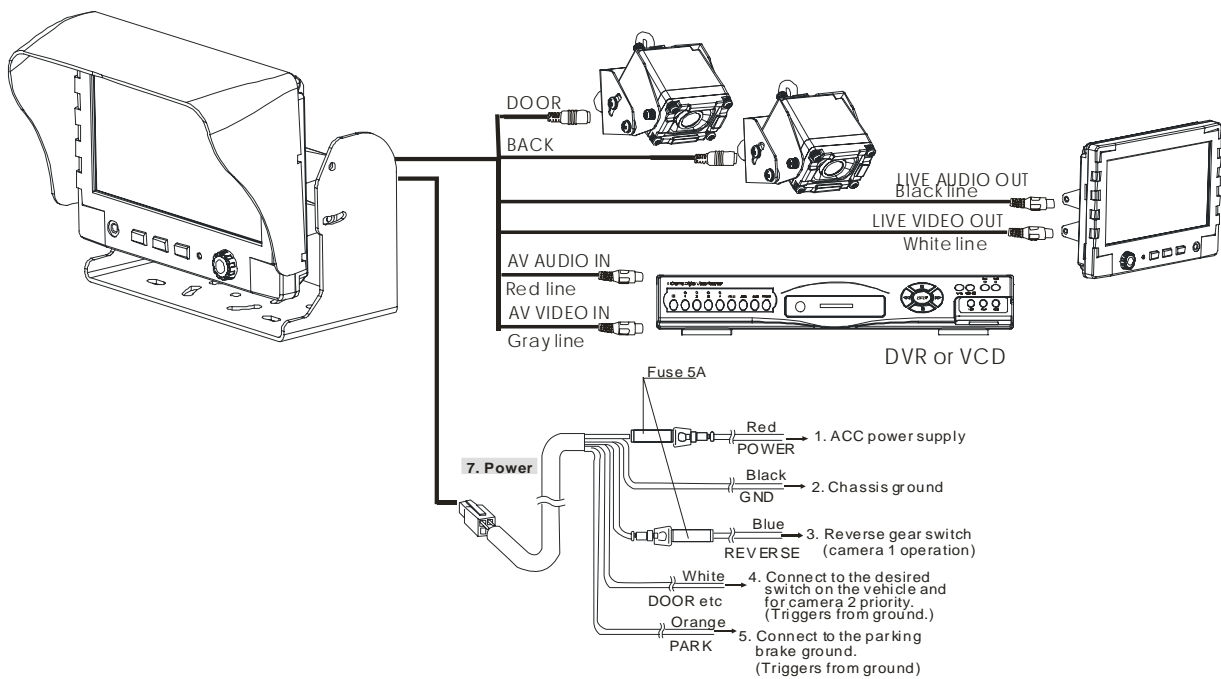
RECALL : Use this feature to recall the factory default settings.

EXIT : Use this feature to exit OSD menu

6. Vehicle Installation



- Install Camera R (for rear view)
- Use a measuring tool to mark out the distance behind the vehicle.
- Adjust the viewing angle of the camera so that the distance gage shown from the TFT match to the distance marks behind the vehicle.



7. Specification

Screen size	7 inch (diagonal)
Active area	154.08(W) x 86.58(H)
Pixel configuration	0.107(W) x 0.370(H)
Resolution	1440(W) x 234 (H)
Viewing angle	UP:60° / Down:60° / Left: 60° / Right:60°
Power source:	DC9.6V ~DC32V
Contrast ratio	300:1
Brightness	400 cd/m ²
Composite Video In	
Connector	RCA Type
Input Signal	1Vpp
Impedance	75 Ohms
Camera MINI DIN In	
Connector	6 PIN MINI DIN Type (Standard)
Input video signal level	1Vpp
Impedance	75 Ohms
Input audio signal level	1Vpp
Power output for camera	DC12V 350mA
AUDIO IN	
Connector	RCA Type
Input video signal level	1Vpp
Impedance	75 Ohms
Composite Video Live Output	
Connector	RCA Type
Output signal level	1Vpp
Impedance	75 Ohms
Composite	
Connector	RCA Type
Input signal level	1Vpp
Impedance	75 Ohms
Audio Live Out	
Connector	RCA Type
Input signal level	1Vpp
Impedance	1K Ohms
Dimension	
W x H x D :	192 x140.5 x 51.8mm
Weight	N.W./G.W.: 2kg/ 2.28kg
Environmental:	
Operation temperature	-10°C~70°C
Storage temperature	-30°C~80°C
Humidity	20%-80

8. Attachment

Attachment 1: Dimension Chart

