

***Cab* CAM**™

Camera Observation System



Please read this manual completely before operating the unit



SAFETY INFORMATION

Before installing the unit, please read all the CAUTIONS and WARNINGS below.

WARNING

Do not expose the monitor or camera to excessive heat, cold or moisture.

High voltage is within the monitor and opening of enclosure is only allowed to professionals.

Do not place heavy object on cables or cover them with rugs or carpet.

Do not place cables where they can be pinched or stepped on.

CAUTION

To avoid damage to electronic circuit, stop using this product while doing welding work to the automobile.

Connect this unit only to other compatible units.

Make sure all cables are connected properly, Improper cable connections may damage the camera and the monitor.

Make sure all cables are connected firmly, or image effect may be worsened or system may operate abnormally.

Connecting cables are not allowed to touch hot or rotating parts, such as engine, ventilator, etc.

Do not locate the monitor near radiators, ovens or other heat generating appliances and equipment.

Leave at least a 2" space between the monitor and walls, cabinets or other objects to allow air circulation around the unit.

To prevent internal heat build-up within the monitor, don't block the ventilation openings.

Turn off power to the monitor when connecting the camera.

Monitors are not designed to be waterproof. Exposure to rain or water may damage the unit.

Do not place the unit to sunlight directly.

Never immerse any component in water, and do not spray cleaning. when cleaning, use a damp Lint-free cloth only.



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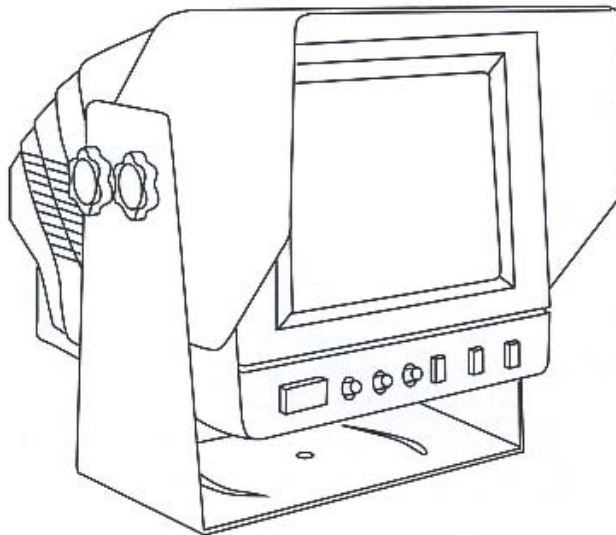
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PREFACE

Thanks for your purchasing of

5.5-Inch Car Rear Viewer



System Features

5.5" Military-type Phosphor Cathode Ray Tube(CRT)

Wide voltage input adaptability: 11~32V DC

2 channels of audio/video input, 1 channel of audio/video composite output

Power/Stand-by mode option

Normal/Mirror image switch

Day/Night lightness option

Near Sunlight-readability

Double-sided PCB board for efficiently increasing anti-vibration ability (6.8G)

Contrast, brightness and volume adjustment

Built-in speaker

Adjustable Mounting Bracket






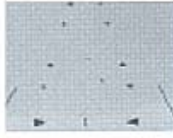


Sun shield included

SYSTEM COMPOSITION

Before using the product, please make sure that the package of product includes the following items.

Item	Quantity
Monitor	1
Monitor support	1
Support mounting screw	4
Power cable	1
Anti-vibration pad	1
Angle adjustment screw	4
System connecting cable	1
Direction indication film	1
Sun shield	1
Operating instruction	1

Accessories

 <p>Monitor support</p>	 <p>Angle adjustment screw</p>
 <p>Power cable</p>	 <p>Support mounting screw</p>
 <p>Sun shield</p>	 <p>Direction indication film</p>
 <p>System connecting cable</p>	 <p>Anti-vibration pad</p>

SYSTEM INSTALLATION GUIDE

This monitor can be mounted by embedding to the dash area, hanging from the truck roof or seating to any position which is suitable to the driver to observe the images.

Mounting monitor

1. Select a position to mount the monitor
2. Well position the monitor support, mark the fixing hole position and drill fixing holes
3. See Fig.1, put spring lockwasher on mounting screw to fix the monitor support
4. See Fig.2, fix the monitor to the support with 4 angle adjustment screws
5. See Fig.3, connect cables according to port connection diagram

Connecting power cable

6. See Fig.4, Connect one end of the power cable(wire) to the right position on the dashboard
7. connect the other end of the power cable(plug) to the monitor

System connecting

8. See Fig.4, connect the monitor and the camera with the system connecting cable.
You can link the monitor with at most 2 channels of cameras and 1 channel of video/audio output
(AV signal cable can be selective purchase)

WARNING

Electrical shock or fire hazard. Do not try to service this unit yourself. Service should be handled by qualified technicians.

MONITOR MOUNTING

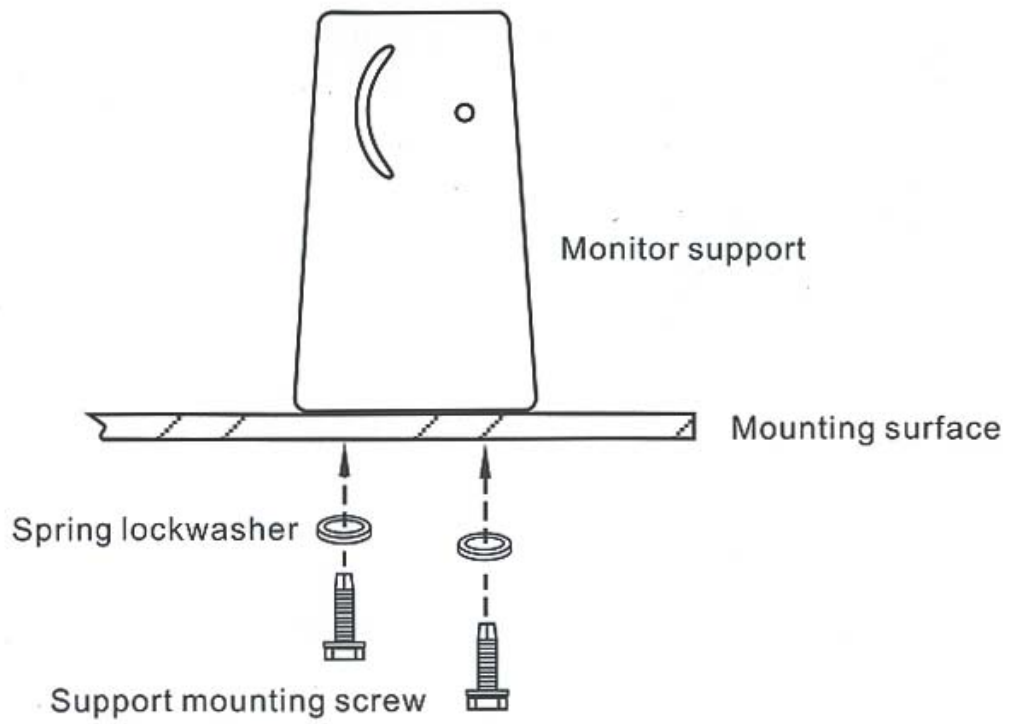


Fig.1 Mounting the support

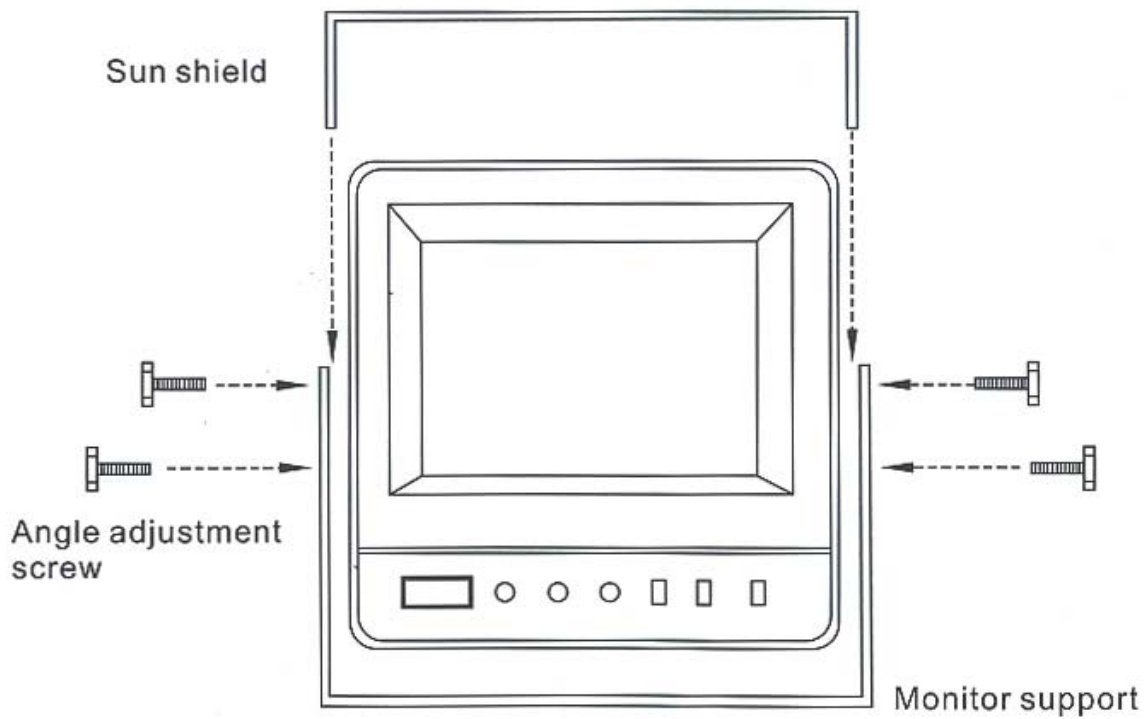


Fig.2 Fixing the monitor

PORT CONNECTION DISPLAY

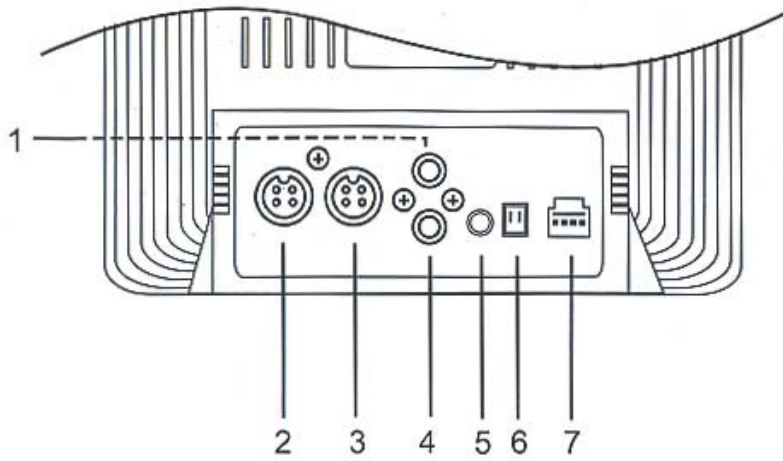
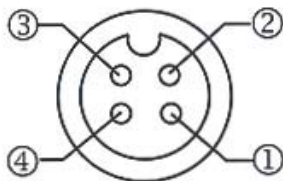


Fig. 3 Port connection

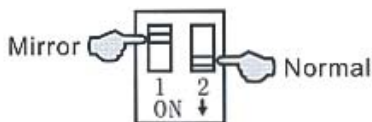
1. Video output
2. Camera1 input
3. Camera2 input
4. Audio output
5. To exterior speaker
6. Normal/Mirror image switch

Detail of ports



Port 2/C1

- ① GND (ground)
- ② Power of camera
- ③ Video input
- ④ Audio input



Port 6/MIRROR

Turn the switch from up to down can switch the image display from mirror to normal.



Port 7/POWER

- ⑤ Black to ground (GND)
- ⑥ Red to power supply
- ⑦ Orange to reversing light
- ⑧ White to dimmer

SYSTEM CONNECTION DISPLAY

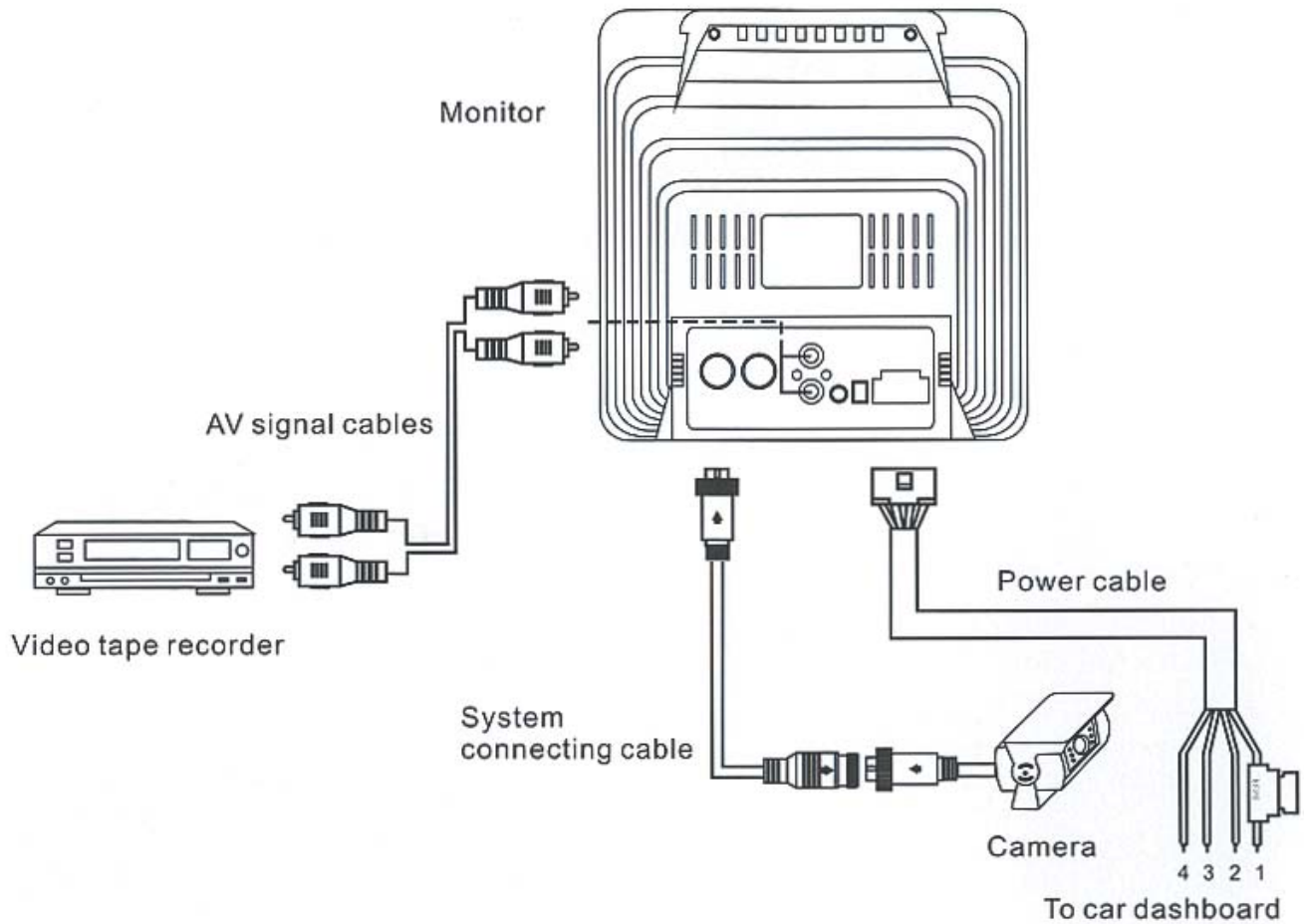


Fig.4 System connection

Power cable connection

1. Red to DC12V power input
2. Brown to reversing control power
3. White to postern control power
4. Black to ground(GND)

This product can be linked to 2 channels of cameras and 1 channel of video output which connect to a video tape recorder for recording images.

IDENTIFYING THE PARTS

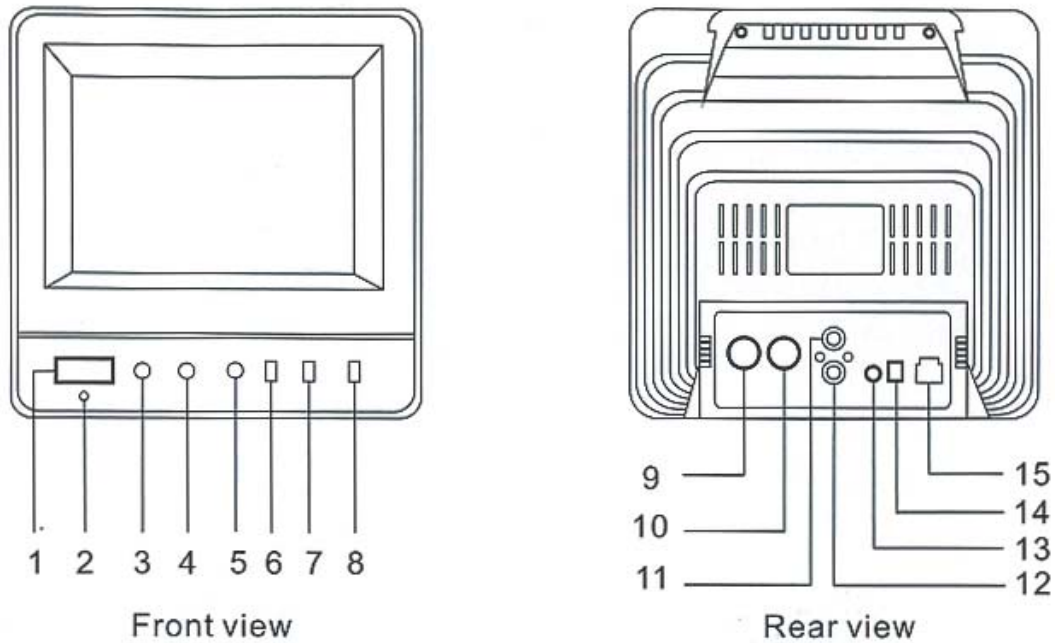


Fig.5 Front and rear view of product

1. Power switch
2. Power indicator
3. Contrast adjustment
4. Brightness adjustment
5. Volume adjustment
6. Camera1 switch
7. Camera2 switch
8. Day/Night lightness option

9. Camera input C1
10. Camera input C2
11. Video output
12. Audio output
13. To exterior speaker
14. Normal/Mirror image switch
15. Power input

TECHNICAL SPECIFICATIONS

The technical specification of monitor is listed below

Serial Number	Item	Specifications
1	Display device	5.5" CRT
2	Deflection angle	70°
3	Input voltage	11~32V(DC)
4	Output voltage	10V(DC)
5	Power consumption	Max.1A
6	Scanning frequency	CCIR:(H)15625Hz/ (V) 50Hz EIA:(H)15750Hz/ (V) 60Hz
7	Video input	Composite video signal 1Vp-p 75Ohm
8	Video output	Composite video signal 1Vp-p 75Ohm
9	Horizontal resolution	420 TV lines at maximum
10	Field resolution	420 TV lines at maximum
11	Anti-vibration capability	6.8G
12	Camera port	4-pin DIN socket
13	AV port	RCA socket
14	Storage temperature	-25° C~+70° C
15	Operating temperature	-0° C~+60° C
16	Dimensions	160(W)x147(H)x143(L)mm (without support and sun shield)
17	Parking dimensions	293(W)x268(H)x200(L)mm

NOTICE

The manufacturer reserves the right to change the specifications without notice.

TROUBLESHOOTING

Solve problems according to the table below

Symptom	Cause	Solution
Rolling image	Monitor(horizontal control)	Replace monitor
Shrunk & Unstable image	Monitor improper voltage	check the voltage of power supply
Black image	Monitor improper voltage	if ok, check fuse->check power cable, wires or connector(loose or broken?) If all above item are ok, replace monitor
White image	Monitor/Camera	Check main system cable. Make sure all connectors are connected properly. If ok, check 4 pin DIN monitor cable. If ok, replace camera
Blurred image	Fog, mud, water or ice on camera lens or porthole moisture in camera	Clean camera porthole. If condensation or moisture is visible inside camera, initiate device immediately.
Engine noise or Static lines	Monitor	Make sure ground and +12V DC source is in solid connection. Call tech-support for assistance
No light displayed on monitor	Broken fuse or low brightness level	Check whether the fuse is broken or brightness adjustment has been turned to the lowest level
No image	Improper plugging in connector or broken system connecting cable	plug the connector properly or replace the system connecting cable

If you still can not solve the problems, contact our tech-support engineer for assistance.

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