

# Mini Rear View Camera

## WATERPROOF CAMERA INSTRUCTION MANUAL



CCD-5XS (COLOR Camera)

### THE NEW TREND IN MOBILE VIDEO

***Fahrenheit***

Made in Korea

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- Please read the manual before use and the specification may without notice for quality improvement.
- Do not disassemble, This may cause unexpected damage in case of disassembling for any purpose.

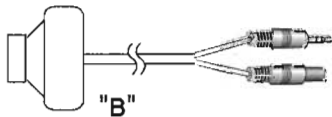
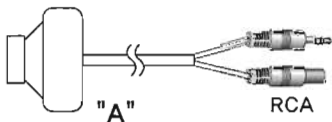
## FEATURES

- Ultra miniature size car rear view camera.
- Weather proor(IP67)
- High picture quality.
- Wide angle lens (161 degree)
- Adjustable camera viewing angle(Tilt)
- License plate screw hole use
- DC12V Tolerance 6.5VDC-18VDC, 110mA
- Compatible wity any monitors.
- Easy to Installation
- 1/4" CCD 0.3LUX Low light color camera.
- Zinc metal nikel.
- Din connector & RCA outputs.
- Utility patent.
- Mirror Image.
- Elegant metal finish / beautiful designs.

## APPLICATION

RV/SUV/TRUCK

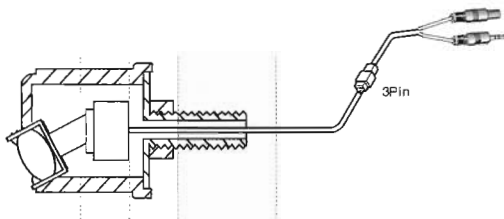
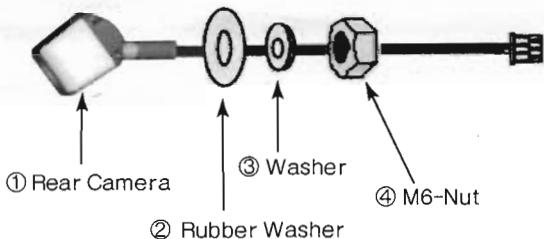
## VIDEO OUT OPTIONS



**A.** Use the RCA wires, when connecting to monitor.

**B.** Use the mono plug connector, when connecting to monitor.

## COMPONENTS AND USAGE



### -Rear Camera Usage

- The Rearview Camera is used as a supplementary aid for when backing up the vehicle.
- The Rearview Camera visibility may be reduced if the lens is obscured.
- Do not depend on the Rearview Camera only. When backing up the vehicle, use rear view mirror and look over your shoulder as well.
- The characteristics of the Rear Camera lens will make all obstructions on the screen appear differently from their actual positions and distances.

## ASSEMBLE



Camera



- Step 1. Place the camera where you want to install when use a drill to make a hole
- Step 2. Place the camera into the hole and tight with rubber pad, plate washer, spring washer and 6mm net.
- Step 3. Connect the camera to the moniors and then connect to DC power.  
(Red : +, Black : -)
- Step 4. Connect the wire to the monitor  
(RCA:In dash monitor/Mono plug:On dash monitor)

## CAUTIONS IN INSTALLATION

- 1) Assemble the camera's main body.
- 2) This camera has high resolution and is composed of very precise components, Be careful not to drop it or do not shock to it during assembly.
- 3) Do not install it facing the sun so that the direct ray of light may not come through the lens.
- 4) Avoid places where vibration may occur.
- 5) Do not pull the cable. It may cause shorten the wire.
- 6) If it appears to be defective, disrconnect the ppower and contact the selling agent nearby.
- 7) Before installation, make sure disconnect the power supply first, check the ground connection, and then install it.
- 8) It may cause damage or loss upon waterproof coating of the cable.

## REQUESTING FOR WARRANTY

CONDITIONS	CHECKING POINTS
No picture	<ul style="list-style-type: none"><li>* Check if the power is connected correctly. (Check the DC power +/-)</li><li>* Check if the iris is closed or if it is adjusted correctly</li><li>* Check if the cable is connected correctly.</li></ul>
Poor picture	<ul style="list-style-type: none"><li>* If dust is seen through the monitor screen after fixing lens, disassemble the lens and clear off the dust on the surface of CCD with blower or soft cloths.</li><li>* Check if the lens is focused properly</li><li>* Check if the monitor color and brightness is adjusted properly</li></ul>

# SPECIFICATION

Model No	CCD-5XS	
Image sensor	1/4 Inch CCD 270K pixel	
Effective pixel	H510 × V492	
Scanning system	525line 2:1 Interlacing	
Sync. System	Internal synchronization	
Scanning frequency	(H)15.734KHzX(V)59.94Hz	
Sub carrier	54MHz	
Horizontal resolution	330 TV lines above (at F1.4 Lens)	
Video output	VBS 1.0Vp-p/75 Ω (Video signal : 0.714Vp-p, Sync.signal : 0.286Vp-p)	
S/N ratio	48dB above (AGC off, $\gamma=1$ , Y signal )	
Gamma( $\gamma$ )	$\gamma=0.45$	
Standard Lux	1.000 Lux F 4.0 (3,200° K)	
Min. Illumination	0.3 Lux st F 1.8 AGC ON	
Lens	161° (f=1.9, F2.0)	
Gain control	Automatic gain control (0~18dB)	
White balance	Automatic white balance control	
Auto iris	Electronic auto iris	
Shutter speed	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Input voltage	DC 12V ± 1V/110mA Max (6.5V~18VDC)	
Ambient Temperature	-20°~ +80°C	
Dimensions	28.8∅ × 21(W)mm	
Housing material	Zinc Metal	

# WARRANTY CARD

PRODUCT NAME		PERIOD
MODEL NAME		1YEAR
PURCHASE DATE	. .	
WARRANTY PERIOD	. .	

CUSTOMER ADDRESS:	NAME	
	TEL	
DEALER ADDRESS:	NAME	
	TEL	

※ Be sure to fill in the blank when the unit is sold.

## ***Farenheit***

### ***Head office***

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