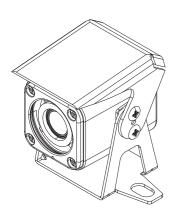
NESA® ECC120AHD Owner's Manual



- 1 COMPOSITION
- 2 INSTALLATION
- **3** CONNECTION WIRING
- 4 CAMERA INPUT CONNECTOR PIN DESCRIPTION
- 5 LENS SPECIFICATION
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/ CAUTION BEFORE USAGE



1. PLEASE USE THE PRODUCT AFTER READING THE MANUAL CAREFULLY FOR SAFE USAGE. PLEASE INSTALL AND USE THE PRODUCT AFTER FULLY AWARE OF THE MANUAL AND PRECAUTION.



ASK EXPERIENCED TECHNICIAN FOR PRODUCT INSTALLATION, INSTALLATION SHOULD BE DONE BY THE TECHNICIAN DUE TO PROFESSIONAL SKILLS AND EXPERIENCE IS REQUIRED.



DO NOT INSTALL, OPEN OR MODIFY THE PRODUCT RANDOMLY. IT CAN CAUSE PRODUCT MALFUNCTION ELECTRIC SHOCK, FIRE AND ALSO WATERPROOF PROBLEM FOR WATERPROOF PRODUCT. CONTACT THE SERVICE CENTER AND ASK FOR A/S, IF REPAIRS ARE NECESSARY.



4. USE REGULATED VOLTAGE. PROTECTION CIRCUIT IS BUILT INSIDE BUT OVER VOLTAGE USAGE CAN CAUSE DAMAGE TO THE PRODUCT. MANUFACTURER WILL NOT TAKE RESPONSIBILITY FOR THE PRODUCT MALFUNCTION CAUSED BY OVER



5. DO NOT DROP OR GIVE EXTERNAL SHOCK TO THE PRODUCT. THE PRODUCT SCREEN OR EXTERIOR CAN BE DAMAGED AND CAUSE MALFUNCTION OF THE INTERNAL PARTS. IN THIS CASE NORMAL CUSTOMER SUPPORT AND



6. CONNECT THE MAIN POWER AFTER INSTALLATION. IT CAN CAUSE PRODUCT MALFUNCTION, FIRE AND ELECTRIC SHOCK.

A/S CAN'T BE RECEIVED.



7. USE AUTHORIZED ACCESSORY & COMPONENTS. USING UNAUTHORIZED ACCESSORY & COMPONENTS CAN CAUSE PRODUCT MALFUNCTION AND THE MA-NUFACTURER WILL NOT TAKE RESPONSIBILITY FOR THE MALFUNCTION.



8. THE PRODUCT IS DESIGNED FOR NORMAL CONDITION USAGE, PLEASE FULLY CONSULT AND DISCUSS WITH YOUR DEALER OR MANUFACTURER IF YOU NEED TO USE THE PRODUCT IN SPECIAL CONDITION. OTHERWISE, IT CAN PRODUCT MALFUNCTION IN AB-NORMAL CONDITION USAGE.

↑ SAFETY & CAUTION DURING THE USAGE

PRODUCT BEFORE DRIVING.



DO NOT CUT OR DAMAGE THE CABLE RANDOMLY. IT CAN CAUSE PRODUCT MALFUNCTION OR WATERPROOF FUNCTION DETECT. MANUFACTURER WILL NOT TAKE RESPONSIBILITY FOR THE MALFUNCTION.



DO NOT DROP THE PRODUCT IN THE WATER OR KEEP IN HUMID PLACE FOR A LONG TIME. IT WILL BE CLASSIFIED AS INUNDATION REASON AND WON'T BE ABLE TO GET FREE A/S SERVICE. (NON-WATERPROOF MONITOR)

- DO NOT WRAP THE PRODUCT WITH ANY FABRIC WHILE

DUE TO INTERNAL TEMPERATURE RISING, IT CAN CAUSE





OPERATING.

PRODUCT MALFUNCTION OR FIRE.



- AVOID SEVERE ELECTROSTATIC CONDITION. IT CAN CAUSE PRODUCT MALFUNCTION.



DO NOT PILE UP HEAVY STUFF N THE PRODUCT, IT CAN CAUSE PRODUCT PROBLEMS OR DAMAGE.



- IF ANY DEBRIS IS FOUND INSIDE OF THE PRODUCT, DISCONNECT THE POWER CABLE AND VISIT THE A/S CENTER. IT CAN CAUSE ELECTRIC SHOCK OR MALFUNCTION WHEN USED CONTINUOUSLY.



DO NOT CLEAN THE PRODUCT WITH CHEMICAL PRODUCT. (ALCOHOL, BENZENE, ACETONE AND ECT) IT CAN CAUSE DAMAGE OF THE PRODUCT SURFACE OR PRODUCT MALFUNCTION.



- * DO NOT CUT THE CABLE RANDOMLY.
- * OUR COMPANY WILL NOT TAKE RESPONSIBILITY IN CASE OF PRODUCT DAMAGE DUE TO CONSUMER'S NEGLIGENCE

11 COMPOSITION







MOUNTING BRACKET



SUN SHIELD











 $M2.6 \times 6L$ SPRING WASHER (10)



STAINLESS (3)



20M CABLE (1) (OPTIONAL)

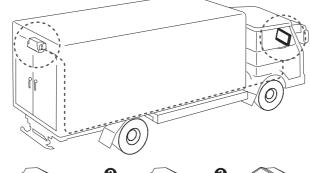


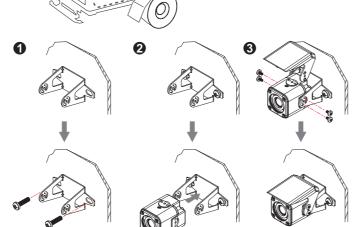
12 INSTALLATION

Install camera firmly the adequate position of vehicle after checking camera's field of view.

Cameras can be installed at suitable position of vehicle's rear side according to user's convenience.

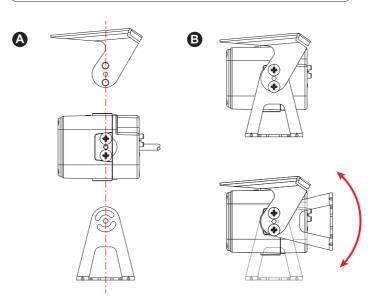
Ask your dealer or experienced technician how to install camera and monitor due to different type of vehicle.





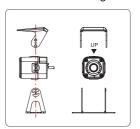
- 1. Fix the supplied mounting bracket to the vehicle.
- 2. Adjust angle of the camera.
- 3. Adjust angle of mounting bracket and fix it to camera. Fasten the screw firmly adjusting camera & mounting bracket.
- * Adjust mounting bracket angle to avoid lens field of view & sun light.
- * Fasten the screw firmly to avoid product's damage or operation.

HOW TO ADJUST CAMERA SUN SHIELD & ANGLE



A. Recommended guideline for assembling mounting bracket. B. User can adjust the installing angle.

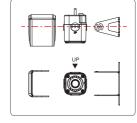
• Front / Rear Usage







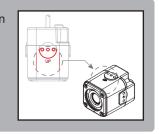








Check "UP" mark before installation







CHECK THE FIXED CONDITION OF THE BRACKET AND

IT CAN CAUSE DAMAGE WHILE DRIVING IN UNSTABLE



MANUFACTURER WILL NOT TAKE RESPONSIBILITY FOR USER'S NEGLIGENCE. DO NOT USE THE PRODUCT IMMEDIATELY AFTER LEAVING ALONE FOR A LONG PERIOD IN SUMMER OR WINTER. IT

CONDITION BY PHYSICAL PHENOMENONS.

USING IN INAPPROPRIATE TEMPERATURE.



THE SHUTTER DOES NOT WORK IN FREEZING CONDITIONS. PLEASE USE AFTER THAWING. (THE MOTOR IS PROTECTED BY THE APPLIED SLIP TORQUE) (SHUTTER APPLIED MODEL ONLY)

CAN CAUSE SERIOUS DAMAGE TO THE PRODUCT WHEN



- STOP USING THE PRODUCT IMMEDIATELY IF BURNING SMELL, SMOKE OR SEVERE OVERHEATING OCCURS WHILE USAGE AND VISIT THE A/S CENTER.



MAKE SURE THE CONNECT POWER CABLE AND CAMERA CABLE IN RIGHT DIRECTION. WRONG WIRE CONNECTION CAN CAUSE DAMAGE TO THE PRODUCT.

3 CONNECTION WIRING

CONNECT CAMERA & MONITOR AFTER CHECKING SPEC-IFICATION OF MONITOR & EXTENSION CABLE. CONNECT POWER & GROUND WIRE OF MONITOR TO FUSE BOX VEHICLE WHEN YOU CONNECT MONITOR POWER.

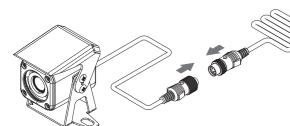
* POWER CONNECTION SHOULD BE CHOSEN BY USER ACCORDING TO POWER SUPPLY CONDITIONS.

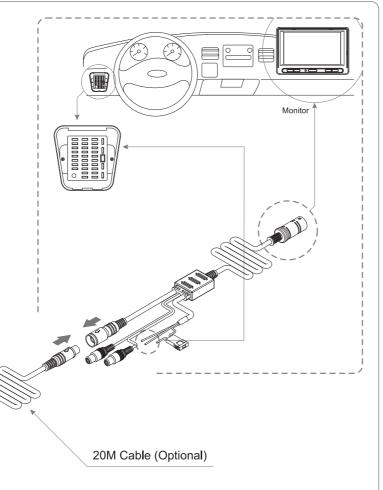
CONNECT CAMERA BACK CABLE WITH EXTENSION CABLE AND THEN CONNECT EXTENSION CABLE WITH MONITOR.

USE ACID FREE VASELINE OR GREASE INSIDE OF CONNECTOR BEFORE FIXATION FOR A GUARANTEED LONG LIFETIME.

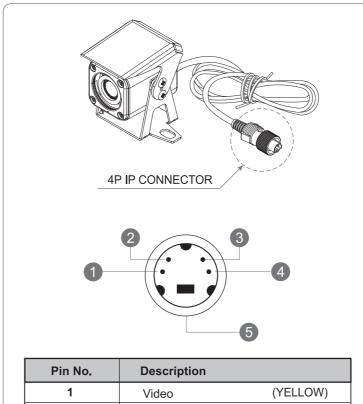
CONNECT CAMERA BACK CABLE WITH EXTENSION CABLE. FIRMLY AFTER CHECKING MALE & FEMALE CONNECTOR.

OTHERWISE, IT CAUSES PRODUCTS PROBLEM.





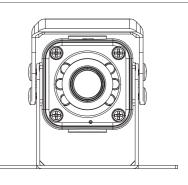
4 CAMERA INPUT CONNECTOR PIN DESCRIPTION



Pin No.	Description	
1	Video	(YELLOW)
2	N.C.	
3	Audio	(WHITE)
4	Power DC 12V	(RED)
5	Ground	(BLACK)

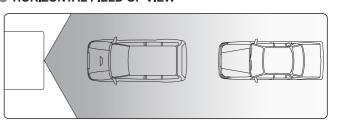
ECC120AHD

5 LENS SPECIFICATION

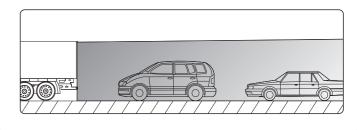


DIAGONAL ANGLE: 120 DEGREE

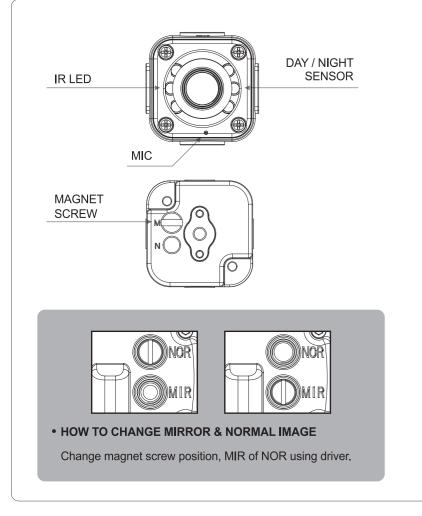
HORIZONTAL FIELD OF VIEW

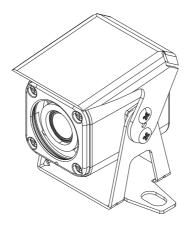


VERTICAL FIELD OF VIEW



6 FEATURES





1/3.2" High resolution CMOS Sensor

Small Size Color Camera

Front / Rear / Left / Right Usable

High Performance in Low Light with IR LED

Power Input DC 12V

Normal / Mirror Image Switching (Patented)

Auto Electronic IRIS

Vandal Resistant

Waterproof IP69K

Optical Axis Corrected

Built in Microphone

7 SPECIFICATIONS

Model No.

woder No.	EGG 120AHD	
Image	Mega pixel High Resolution CMOS Sensor	
Picture Element	1.23 Megapixels	
Image Size	1/3.2 Inch	
Lens	Diagonal Angle: 120 degree	
Synchronization	Internal	
Horizontal Resolution	1000 TV Lines	
Min. Illumination	0 Lux w/ IR LED	
Signal To Noise Ratio	Better than 50dB (at AGC off)	
Power Input	DC 12V	
Vibration	10G	
Shock	100G	
Waterproof IP Factor	IP 69K	
Operation Temp.	-40°c ~ 85°c (-40°F ~ 185°F)	
Case Material	Window: Flat Glass	
	Body : Zinc	
Weight	Approx. 107g	
Dimensions	$30(W) \times 30(H) \times 37(D)mm$	
Supplied Accesories	Sun Shield	
	Mounting Bracket	
	Screw Kits	
	20M Cable (Optional)	
	Instruction Manual	

WARRANTY TERMS & CONDITIONS

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided in addition to your rights under the Australian Consumer Law.

Neltronics warrants that this product is free from defects in material and workmanship for a period of 36 months from the date of purchase or for the period stated on the packaging. This warranty is only valid where you have used the product in accordance with any recommendations or instructions provided by Neltronics.

This warranty excludes defects resulting from alterations of the product, accident, misuse, abuse or neglect.

In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to Neltronics. Neltronics will repair, replace or refurbish the product at its discretion. The retailer will contact you when the product is ready for collection. All costs involved in claiming this warranty, including the cost of the retailer sending the product to Neltronics, will be borne by you.

For full warranty terms and conditions, visit: https://www.neltronics.com.au/warranty-terms-and-conditions/

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