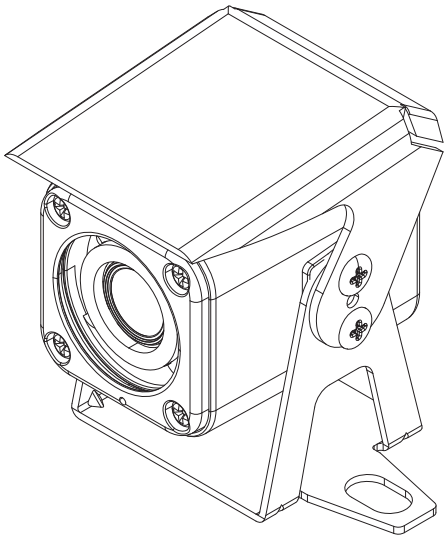










NESA®

ECC-120AHD















Owner's Manual

CAUTION BEFORE USAGE

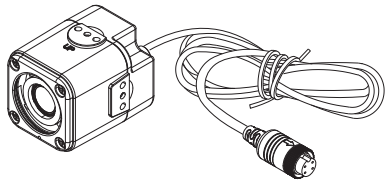
-  Please use the product after reading the manual carefully for safe usage. Please install and use the product after fully aware of the manual and precaution.
-  Ask experienced technician for product installation. Installation should be done by the technician due to professional skills and experience 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.
-  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 voltage.
-  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 A/S can not be received.
-  Connect the main power after installation. It can cause product malfunction, fire and electric shock.
-  Use authorized accessory and components. Using unauthorized accessory and components can cause product malfunction and the manufacturer will not take responsibility for the malfunction.
-  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 abnormal condition usage.

SAFETY & CAUTION DURING THE USAGE

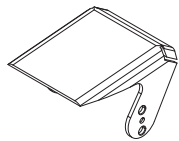
-  Do not cut or damage the cable randomly. It can cause product malfunction or waterproof function detect. Manufacturer will not take responsibility for the malfunction.
-  Tighten the connectors when connecting the extension cable. Otherwise, it can cause connection problem or waterproof function defect of the product.
-  Check the fixed condition of the bracket and product before driving. It can cause damage while driving in unstable condition by physical phenomena. 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 can cause serious damage to the product when using in inappropriate temperature.
-  The shutter dose not work in freezing conditions. Please use after thawing.
(The monitor is protected by the applied slip torque.)
* Shutter applied model only.
-  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.
-  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 operating. Due to internal temperature rising, it can cause product malfunction or fire
-  Avoid severe electrostatic condition. It can cause product malfunction.
-  Do not pile up heavy stuff on the product. It can cause product problems or damage.
-  If any debris id 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 etc.) It can cause damage of the product surface or product malfunction.

- * **USE REGULATED VOLTAGE FOR EACH CAMERA. (REFER PRODUCT SPECIFICATION)**
- * **DO NOT CUT THE CABLE RANDOMLY.**
- * **OUR COMPANY WILL NOT TAKE RESPONSIBILITY IN CASE OF PRODUCT DAMAGE DUE TO CONSUMER'S NEGLIGENCE.**

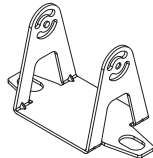
COMPOSITION



CAMERA



SUN SHIELD



MOUNTING BRACKET



INSTRUCTION MANUAL

SCREW KITS

T/H M5 × 16L STAINLESS
(w/ SPRING, FLAT WASHER)

3EA



P/H T5 × 16L STAINLESS

3EA

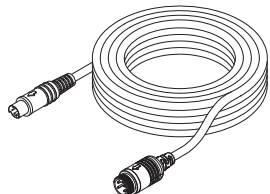
M2.6 × 6L
(w/ SPRING, FLAT WASHER)

10EA

HEX M5 × H5
(NYLON INSERT)

3EA

OPTIONAL



20M EXTENSION CABLE

SPECIFICATION

MODEL	ECC-120AHD
Image Type	1.23 Mega Pixel CMOS Sensor
Image Size	1/3.2 Inch
Angle of View	Diagonal Angle : 120° (Degree)
	Horizontal Angle : 100° (Degree)
	Vertical Angle : 62° (Degree)
Synchronization	Internal
Horizontal Resolution	More than 1,000TV lines (A+HD)
Minimum Illumination	0 Lux w/ IR LED
Signal to Noise Ratio	Better than 50dB (at AGC off)
Power Input	DC 12V
Vibration	10G
IP Rating	IP69K
Operating Temp.	-40°C ~ 85°C (-40°F ~ 185°F)
Housing	Window : Tempered Glass
	Body : Zinc
Weight	Approx. 107g
Dimensions	35(W) × 42(H) × 37(D)mm (Assembled)
	30(W) × 30(H) × 37(D)mm (Camera Only)

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.

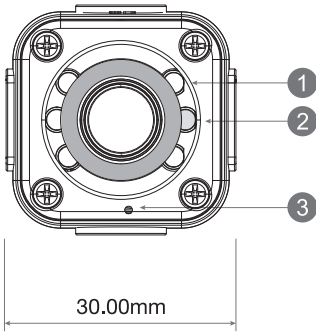
In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to Neltronics. Neltronics will repair, 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/>

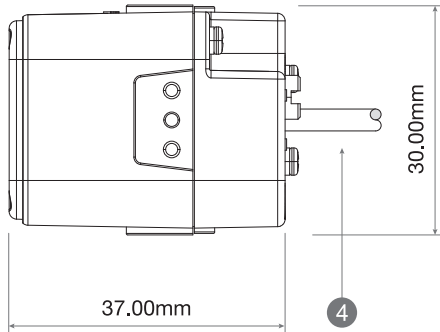
Neltronics Address: 273 Great Eastern Hwy, Belmont, Western Australia
Ph: +61 08 9383 7833 Email: admin@neltronics.com.au

NESA®

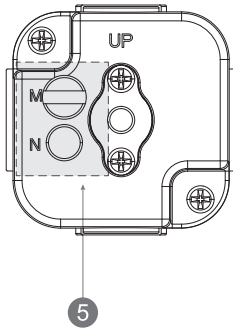
■ FEATURES



- 1 IR LEDs (5EA)
- 2 DAY and NIGHT Sensor
- 3 Built in Microphone

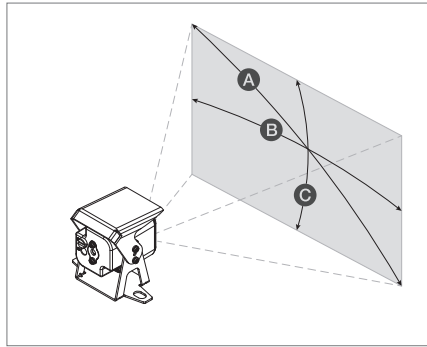


4 Camera Back Cable



5 Magnet Switch (NORMAL / MIRROR)

■ LENS SPECIFICATION

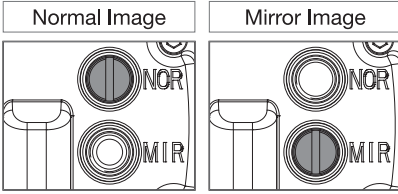


1/3.2" Mega pixel High Resolution CMOS Sensor
Optical Axis Corrected

	Angle of View		
A	Diagonal	Angle of View	120° (Degree)
B	Horizontal	Angle of View	100° (Degree)
C	Vertical	Angle of View	62° (Degree)

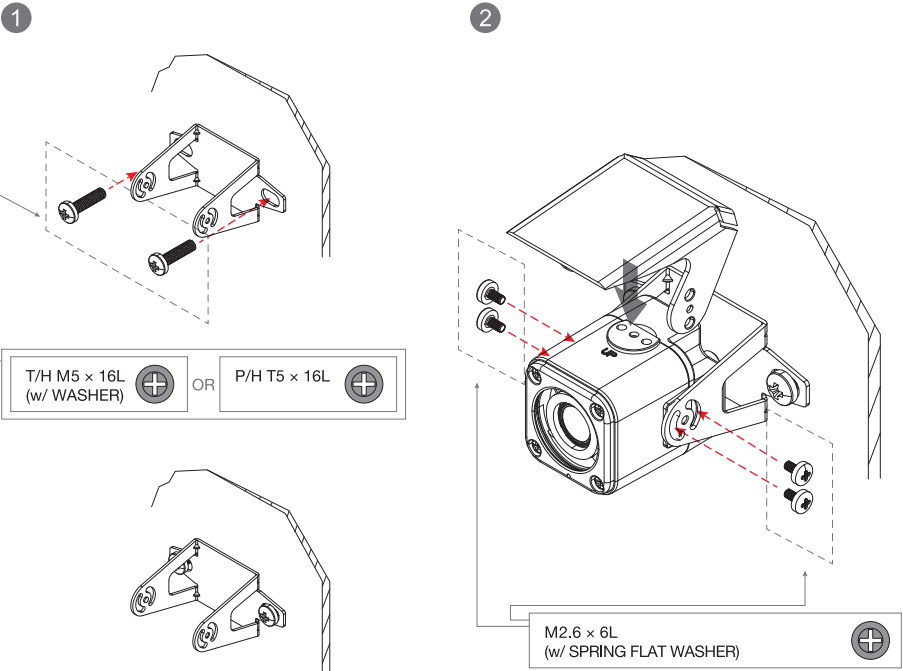
HOW TO CHANGE MIRROR & NORMAL IMAGE

Change magnet screw position, MIR or NOR using driver.



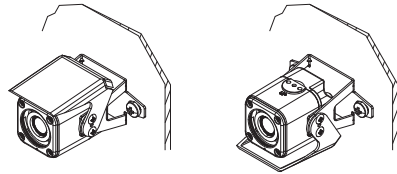
■ INSTALLATION

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.

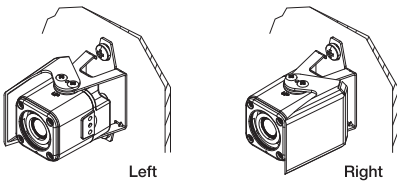


- 1 Fix the supplied mounting bracket to the vehicle. Fasten the M5x16L or T5x16L using driver.
- 2 Adjust angle of the camera. Fasten the screw firmly adjusting camera. Fasten the M2.6x6L screws using driver.

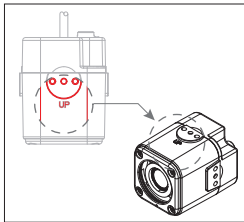
• Front / Rear Usage



• Right / Left Usage



• Check "UP" mark before installation

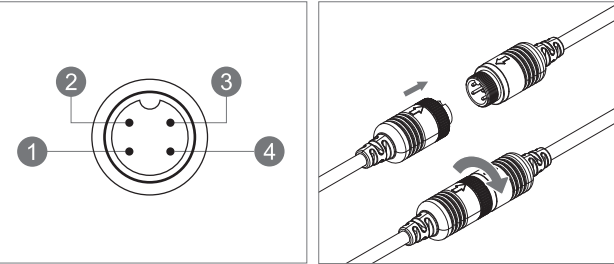


■ CONNECT WIRING

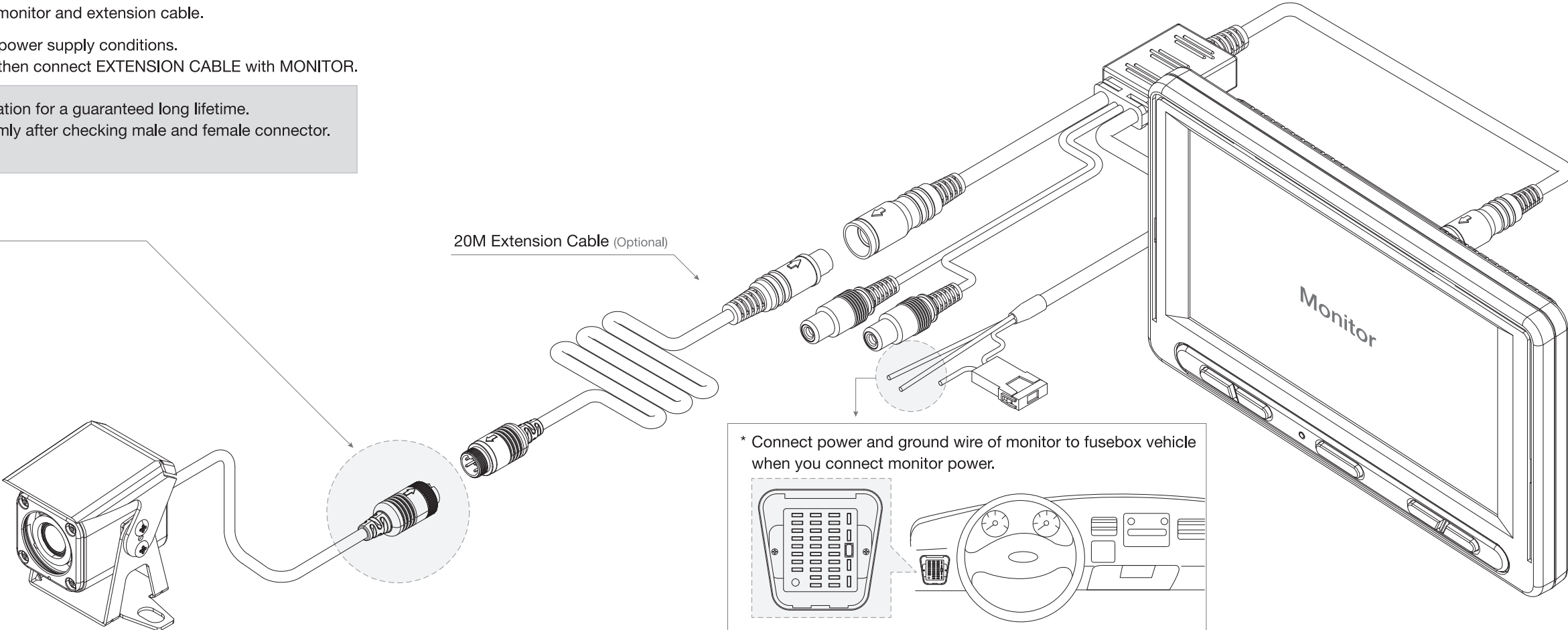
Connect CAMERA & MONITOR after checking specification of monitor and extension cable.
POWER CONNECTION should be chosen by user according to power supply conditions.
Connect CAMERA BACK CABLE with EXTENSION CABLE and then connect EXTENSION CABLE with MONITOR.

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 and female connector.
Otherwise, it causes products problem.

CAMERA INPUT CONNECTOR PIN DESCRIPTION



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



* Connect power and ground wire of monitor to fusebox vehicle when you connect monitor power.

