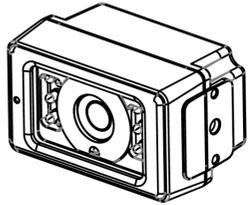
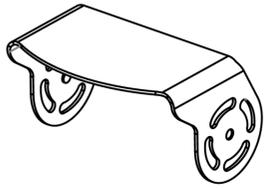


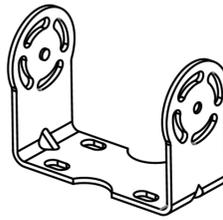
### ◆ Contents



Camera x 1



Camera Sun-shield x 1



Camera Bracket x 1



Screw kit x 1



Manual x 1

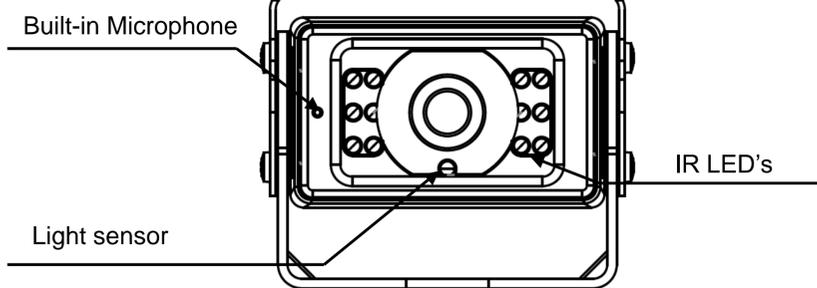
### ◆ Features

- High resolution CMOS camera (1.23Mega pixels)
- 1/3.2" Color CMOS high resolution image sensor
- IP69K Waterproof Rating
- Diagonal 130° Viewing
- Ultra low light performance
- Automatic Electronic Iris
- Built-in Microphone
- Built-in IR LED's
- Mirror Image setting
- Built-in Automatic Heater (below +10°C)
- Temp. -30°C ~ +80°C
- Vibration resistant
- Waterproof screw type connector (IP67), 4-pin mini-DIN.
- E-mark.

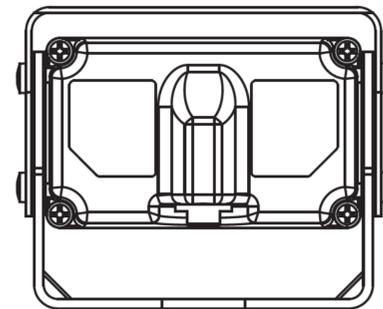
### ◆ Technical Specifications

Image Sensor	: 1/3.2" Color SONY STARVIS CMOS
Picture elements	: PAL, 1.23 Mega pixels
Resolution	: 900 TV lines
S/N ratio	: Better than 50dB (at AGC off)
Minimum illumination	: 0 Lux (IR LED's on)
Power range	: DC 12V
Power consumption	: DC 12V, 375mA (heater on) DC 12V, 145mA (heater off)
Operating temperature	: -30°C to +80°C
Viewing angle	: 130°(Diagonal) x 110°(Horizontal) x 81°(Vertical)
Dimensions	: 67(W) x 40(H) x 50(H)
Weight	: Approx. 350g (total weight incl. bracket & sunvisor: 400g)

#### ▪ Front View



#### ▪ Rear View

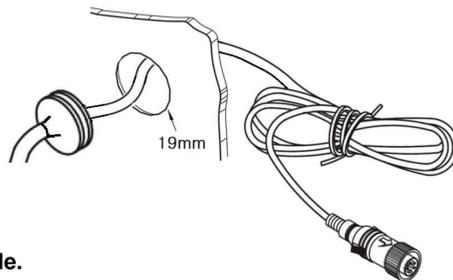
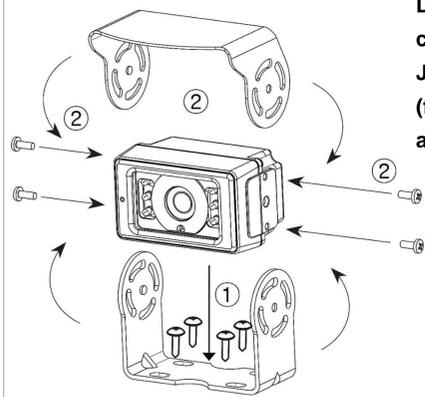


### ◆ Installation

#### ▪ Camera Assembly

#### ▪ Cable grommet

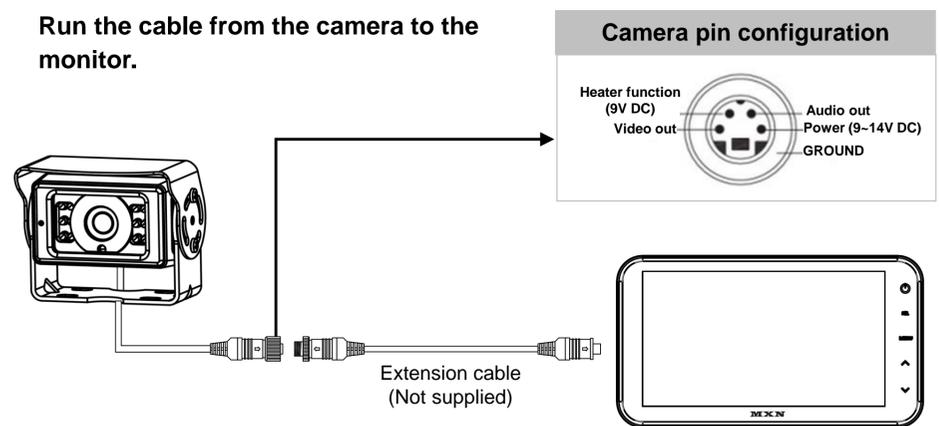
Drill a suitable hole (approx. Ø 19mm) and insert the cable grommet.  
Just before final fixation, please apply a proper sealant (for prevention) between the hole and the grommet and also between the cable and the grommet.



1. Fix the supplied camera bracket to the vehicle.
2. Fix the bracket with camera according to drawing.
3. Adjust the viewing angle of the camera and fasten the screws firmly.

#### ▪ Wiring to Monitor

Run the cable from the camera to the monitor.



#### ▪ Securing cable connection

1. Match the arrow marks and press the connectors together.
2. Screw the camera connector up clockwise.



3. Tighten cable connection firmly in order to prevent water ingress.

**Note!**  
The warranty will not be valid if the problem is related to moist / corrosion in the connector.

#### ▪ Caution !!

1. Before making the connection, disconnect the ground terminal from the battery to avoid short circuits.
2. The plugs should be fully inserted into the connectors or jacks. A loose connection may cause malfunctioning of the unit.
3. A damaged cable may affect the operation of the camera and may even cause a malfunction of the camera or monitor: Avoid a damaged cable!
4. Protect the cable by using a guide tube, pipe or run the cable inside the vehicle as much as possible. Caution! Run the cable in natural shapes in order to prevent cable breaks.
5. Preferably use an acid free grease in between the waterproof screw type connectors and tighten them firmly each other.