

◆ MXN12 series camera



◆ Features

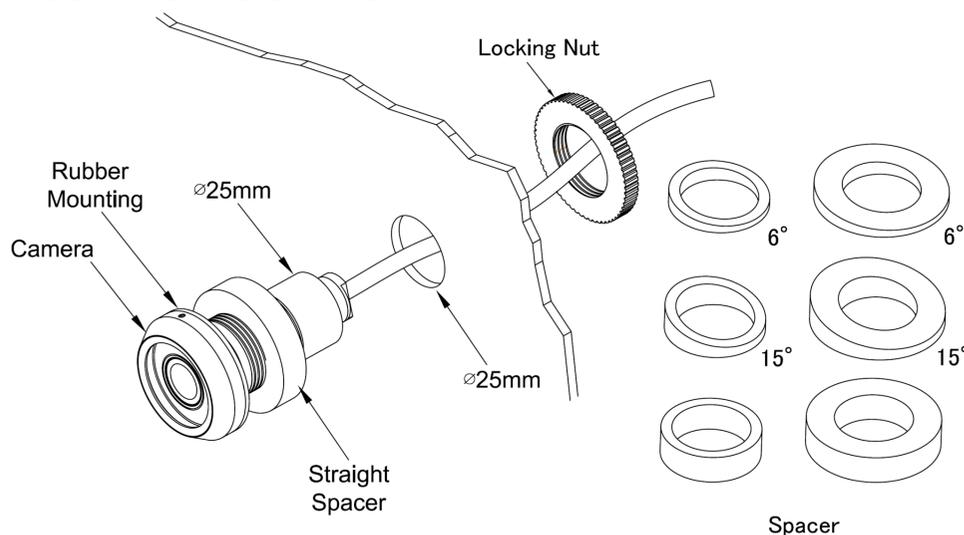
- High resolution CMOS camera (1.23 Mega pixels)
- 1/3.2" Color CMOS high resolution image sensor
- Waterproof Housing (IP69K rating)
- Automatic Electronic Iris
- Mirror Image (or Normal image via loop wire)
- 40°/ 78°/ 130° / 160° Viewing angle (optional)
- Compact Aluminum Housing
- Easy installation (flushmount)
- Temperature Range -40°C to +80°C
- Vibration resistant (5G)
- Extra thick glass window (3mm)
- Suitable for Φ 25mm drilling hole
- Waterproof screw type connector, 4-pin mini-DIN
- Various angled spacers included
- ECE R10.05 approved (EMC)

* Available models: Lens Viewing angle per model:

MXN12C-040	40° (Diagonal) x 30.9° (Horizontal) x 23.2° (Vertical)
MXN12C-078	78° (Diagonal) x 62° (Horizontal) x 45° (Vertical)
MXN12C	130° (Diagonal) x 102° (Horizontal) x 76° (Vertical)
MXN12CW	160° (Diagonal) x 115° (Horizontal) x 86° (Vertical)
MXN12CN (NTSC)	130° (Diagonal) x 102° (Horizontal) x 76° (Vertical)

◆ Installation

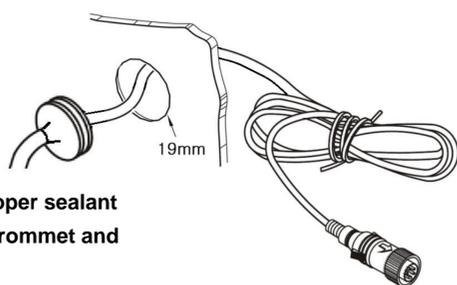
■ Camera Installation



■ Cable grommet

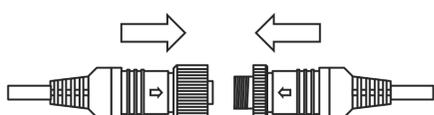
Drill a suitable hole (approx. Φ 19mm) and insert the cable grommet.

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.

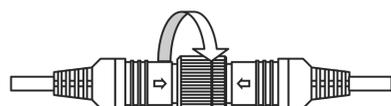


■ Securing cable connection

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.

◆ Contents



Camera x 1



Spacer sets x 3



Manual x 1

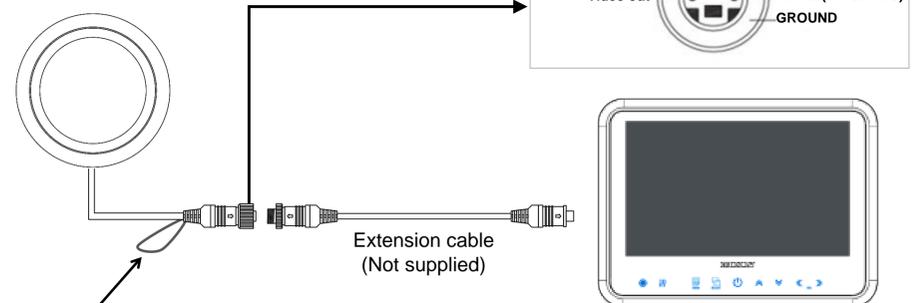
◆ Technical Specifications

Image Sensor	1/3.2" Color Sony CMOS (Exmor)
Effective Pixels	CVBS – PAL (or NTSC), 1.23 MP, 1280(H) x 960(V)
Minimum Illumination	1 lux
Video Output	75 Ω , 1.0Vp-p
Power Range	DC 9V ~ 32V
Power Consumption	DC 12V, 70mA
Operation Temperature	-40°C to +80°C
Lens Viewing Angle	Diagonal 40°/ 78°/ 130° / 160° (subject to camera model)
Material	Compact Aluminum Housing
Dimensions	Head part : Φ 40.2 mm Main body : Φ 25.0 mm Total length : 66.50 mm Flushmount depth: approx. 55.50 mm
Weight	Approx. 155g
Accessories	2 sets 15° spacers, 2 sets 6° spacers, 1 pce straight spacer

◆ Connections & Dimensions

■ Wiring to Monitor

Run the cable from the camera to the monitor.

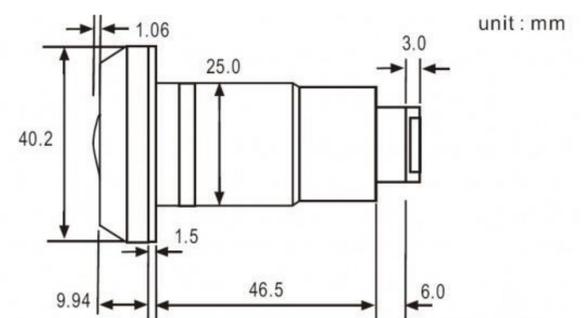


■ Normal / Mirror Image adjustment

The Normal / Mirror image can be changed via the GREEN loop wire:

- * Green loop wire un-cut => MIRROR image
- * Green loop wire cut => NORMAL image

■ Dimensions



E₉ 10R-05-16725

■ 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.