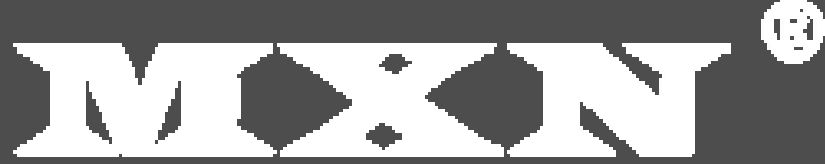


MXN22C-130-TVI

Autoheated, HD-TVI Color Ball Camera



Instruction Manual

MXN22C-130-TVI Camera

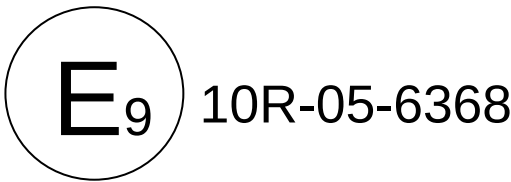


Features

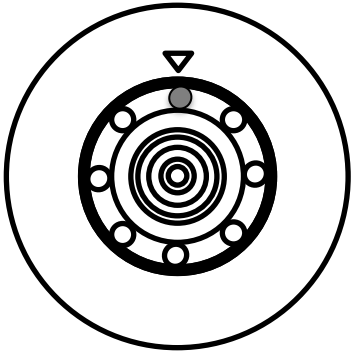
- 2.07 Mega pixels Full HD SONY CMOS Color camera
- 1/2.8" Color CMOS high resolution image sensor (STARVIS)
- HD-TVI 4.0, 1080P/30fps
- IP69K Waterproof Rating
- Built-in Infra Red LEDs
- IR LED ON/OFF function (via loop wire)
- Diagonal 130° viewing angle
- Normal/Mirror Image adjustable
- Built-in Microphone (for one-way audio)
- Multi purpose (Frontview, Sideview, Rearview, Surveillance, etc)
- Built-in Automatic Heater (below +10°C)
- Anti-corrosive 3-fold coating
- Temp. -40°C ~ +80°C
- Vibration resistant (10G)
- Waterproof screw type connector, 4-pin mini-DIN
- ECE R10.05 approved (EMC)

Optional versions of model **MXN22C-130-TVI**:

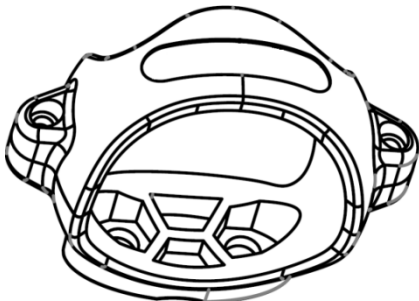
- MXN22C-160-TVI** 160°(D) x 133°(H) x 69.0°(V)
- MXN22C-078-TVI** 78°(D) x 70.0°(H) x 39.0°(V)
- MXN22C-040-TVI** 40°(D) x 37.0°(H) x 22.0°(V)
- MXN22C-020-TVI** 20°(D) x 19.0°(H) x 13.0°(V)



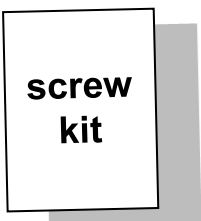
Contents



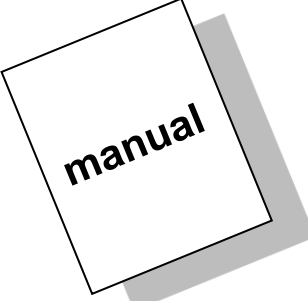
Camera x 1



Camera Bracket x 1



Screw kit x 1

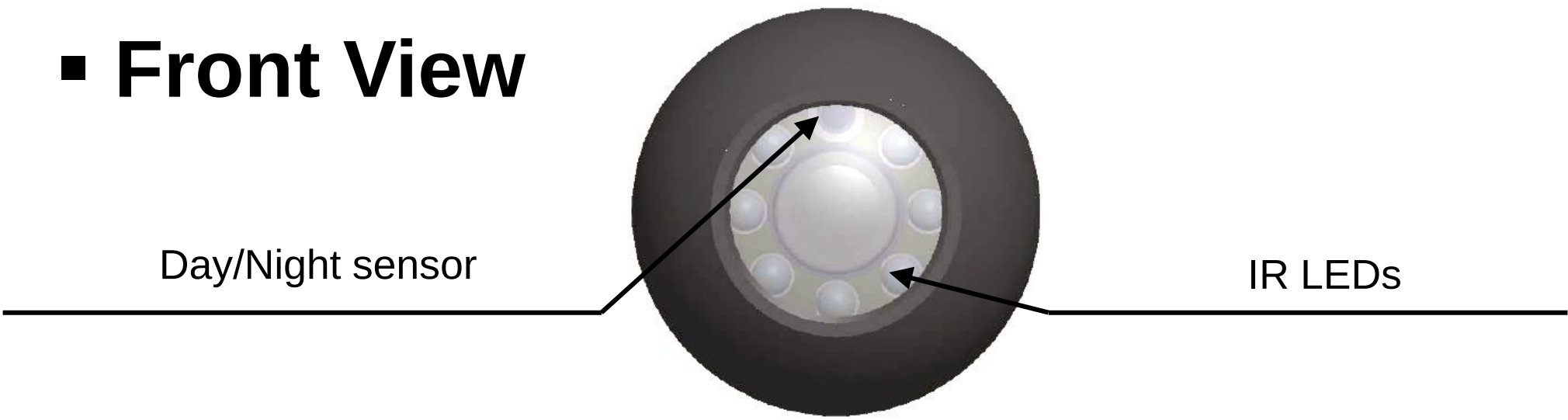


Manual x 1

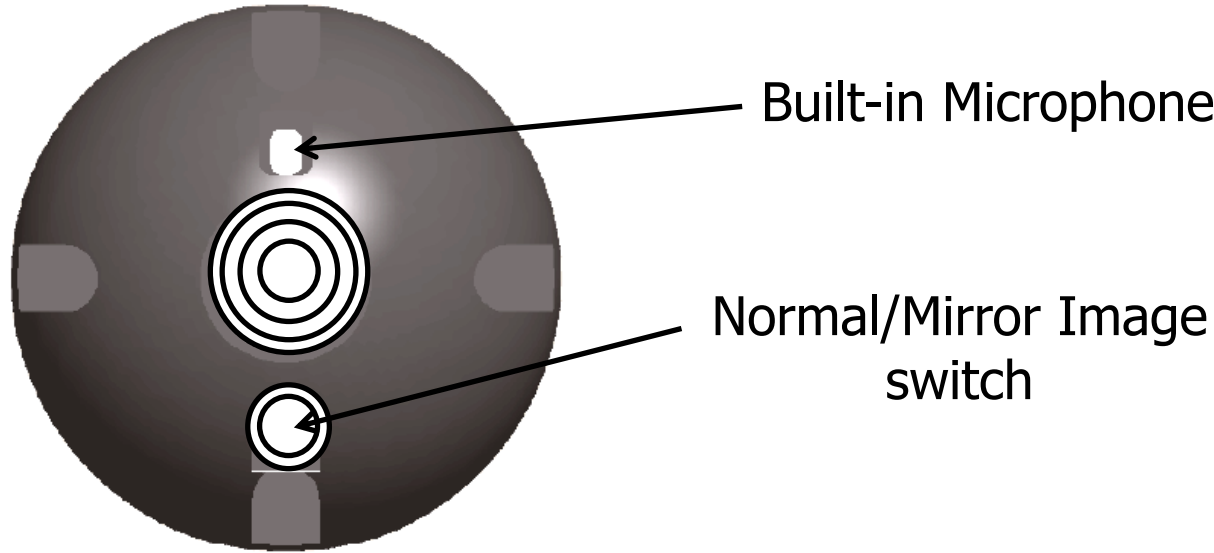
Technical Specifications

Image Sensor	: 1/2.8" SONY CMOS Sensor (STARVIS)
Effective Pixels	: 2.07 Mega pixels 1920(H) X 1080(V)
Resolution	: 1080 TV lines
S/N ratio	: Minimum 45dB (at AGC off)
Scanning System	: Progressive
Video Output	: HD-TVI 4.0, 1080P/30fps
Minimum illumination	: 0 Lux (IR LEDs on)
Power range	: DC 9 ~ 48V
Power consumption	: DC 12V, 265mA (heater on) DC 12V, 165mA (heater off)
Operating temperature	: -40°C to +80°C
Viewing angle	: 130°(Diagonal) x 120°(Horizontal) x 66°(Vertical)
Dimensions	: Ø52mm, 72(W) x 52(D) x 63(H) incl. bracket
Weight	: Approx. 215g
Supplied Accessories	: Camera Bracket (1) Stainless M6 x 25mm bolt + M6 nut (2 + 2) Stainless M3 x 12mm bolt + M3 nut (2 + 2) Stainless M4 x 16mm tapping screw (2) Rubber washer + stainless metal washer (2 + 2) Rubber O-Ring (2) Allen wrench 3mm (1)

Front View

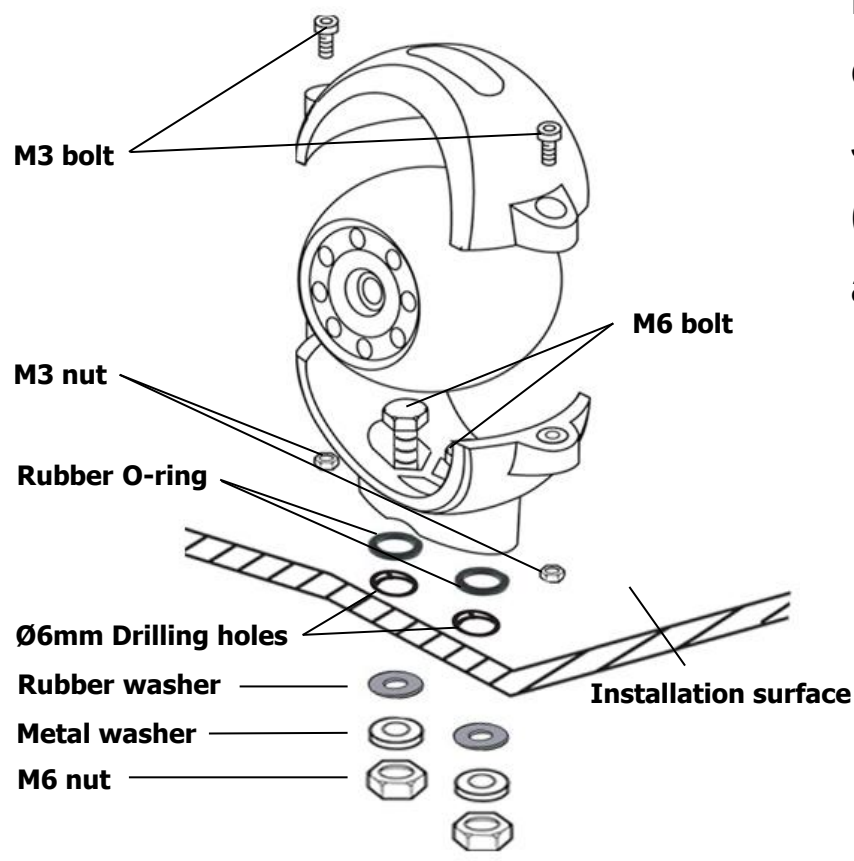


Rear View



Installation

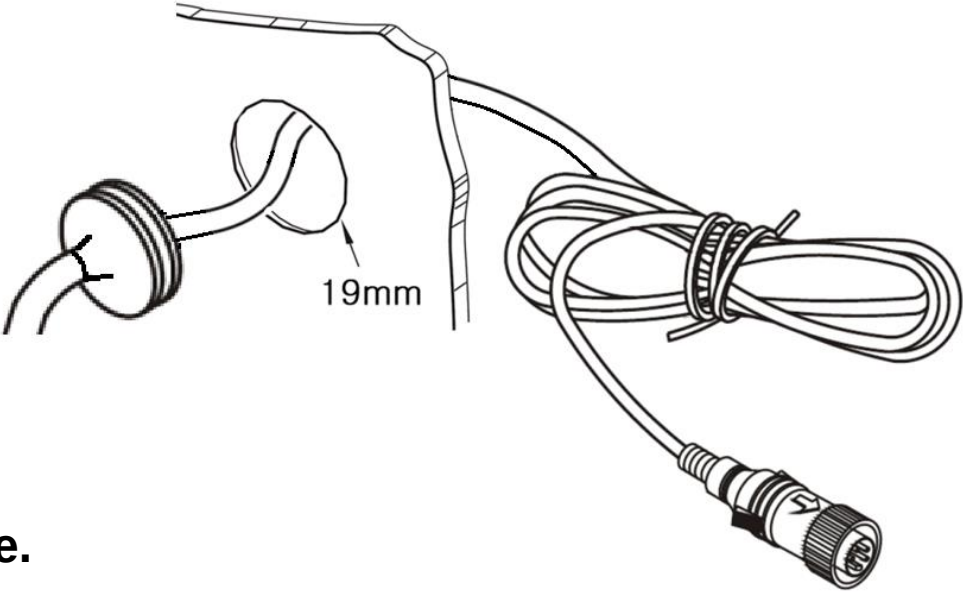
Camera Assembly



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

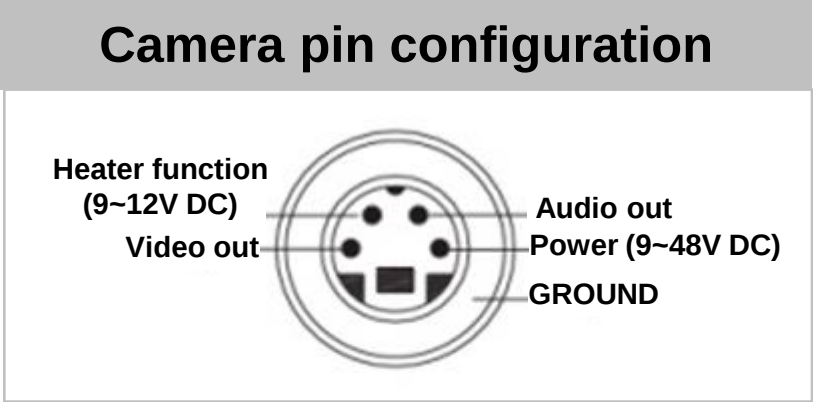
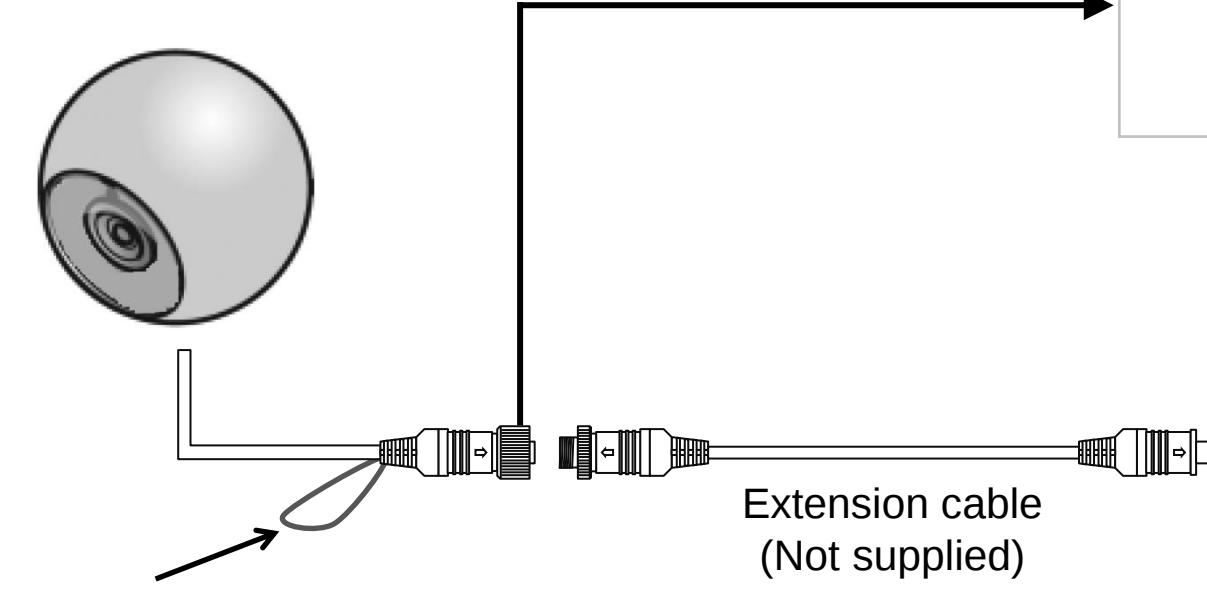
Cable grommet

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.



Wiring to Monitor

Run the cable from the camera to the monitor.



IR LED ON/OFF function

IR LED function can be ON or OFF via the GREEN loop wire:

- * Green loop wire un-cut : IR LED function => ON / Standby
- * Green loop wire cut : IR LED function => permanent OFF

Securing cable connection

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



- 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 !!

- Before making the connection, disconnect the ground terminal from the battery to avoid short circuits.
- The plugs should be fully inserted into the connectors or jacks.
A loose connection may cause malfunctioning of the unit.
- 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!
- 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.
- Preferably use an acid free grease in between the waterproof screw type connectors and tighten them firmly eachother.