

FEATURES



- Compact Ball Camera
- High resolution CMOS camera (1.23 Mega pixels)
- 1/3.2" Color CMOS high resolution image sensor
- IP69K Waterproof Rating
- Built-in Infra Red LEDs
- Automatic Electronic Iris
- IR LEDs 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
- Waterproof screw type connector, 4-pin mini-DIN
- Temperature Range -40°C to +80°C
- Vibration resistant (10G)
- ECE R10.05 approved (EMC)

Optional versions of model MXN22C:

**MXN22C-078** 78°(D) x 62.0°(H) x 45.0°(V)

**MXN22C-040** 40°(D) x 30.9°(H) x 23.2°(V)

**MXN22C-020** 20°(D) x 17.0°(H) x 12.8°(V)

Specifications

Image Sensor	1/3.2" Sony CMOS Sensor (Exmor)
Effective Pixels	CVBS - PAL, 1.23Mega pixels, 1280(H) x 960(V)
Resolution	750 TV lines
Synchronizing System	Internal
Video Output	75Ω, 1.0Vp-p
Audio	High Sensitive C-Microphone
S/N Ratio	Minimum 45dB (at AGC off)
Minimum Illumination	0 Lux (IR LEDs on)
Power Consumption	DC 12V, 265mA (heater ON) DC 12V, 165mA (heater OFF)
Power Range	DC 9V ~ DC 48V
Heater Power Range	DC 9V ~ DC 12V
Operating Temperature	- 40°C to + 80°C
Lens Viewing angle	130° Diagonal, 102° Horizontal, 76° Vertical
Dimensions	Φ 52 mm, 72(W) x 52(D) x 63(H) incl. Bracket
Weight	Approx. 215g



FEATURES



- Compact, Wide Angle, Color Ball camera
- High resolution CMOS camera (1.23 Mega pixels)
- 1/3.2” Color CMOS high resolution image sensor
- IP69K Waterproof Rating
- Built-in Infra Red LEDs
- Automatic Electronic Iris
- IR LED ON/OFF function (via loop wire)
- Diagonal 160° Wide 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
- Waterproof screw type connector, 4-pin mini-DIN
- Temperature Range -40°C to +80°C
- Vibration resistant (10G)
- ECE R10.05 approved (EMC)
- R46 and 2003/97/EC approved for indirect vision  
(in combination with some specific MXN monitor models only)

Specifications

Image Sensor	1/3.2” Sony CMOS Sensor (Exmor)
Effective Pixels	CVBS - PAL, 1.23Mega pixels, 1280(H) x 960(V)
Resolution	750 TV lines
Synchronizing System	Internal
Video Output	75Ω, 1.0Vp-p
Audio	High Sensitive C-Microphone
S/N Ratio	Minimum 45dB (at AGC off)
Minimum Illumination	0 Lux (IR LEDs on)
Power Consumption	DC 12V, 265mA (heater ON) DC 12V, 165mA (heater OFF)
Power Range	DC 9V ~ DC 48V
Heater Power Range	DC 9V ~ DC 12V
Operating Temperature	- 40°C to + 80°C
Lens Viewing angle	160° Diagonal, 115° Horizontal, 86° Vertical
Dimensions	Φ 52 mm, 72(W) x 52(D) x 63(H) incl. Bracket
Weight	Approx. 215g



FEATURES



- High resolution CMOS camera (1.23Mega pixels)
- 1/3.2” Color CMOS high resolution image sensor
- IP69K Waterproof Rating
- Built-in Infra Red LEDs
- IR LEDs ON/OFF function (via loop wire)
- Automatic Electronic Iris
- 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
- Waterproof screw type connector, 4-pin mini-DIN
- Temperature Range -40°C to +80°C
- Vibration resistant (10G)
- ECE R10.05 approved (EMC)

Optional versions of model MXN22CN:  
**MXN22CN-078** 78°(D) x 62.0°(H) x 45.0°(V)  
**MXN22CN-040** 40°(D) x 30.9°(H) x 23.2°(V)  
**MXN22CN-020** 20°(D) x 17.0°(H) x 12.8°(V)

Specifications

Image Sensor	1/3.2” Sony CMOS Sensor (Exmor)
Effective Pixels	CVBS - NTSC, 1.23Mega pixels, 1280(H) x 960(V)
Resolution	750 TV lines
Synchronizing System	Internal
Video Output	75Ω, 1.0Vp-p
Audio	High Sensitive C-Microphone
S/N Ratio	Minimum 45dB (at AGC off)
Minimum Illumination	0 Lux (IR LEDs on)
Power Consumption	DC 12V, 265mA (heater ON) DC 12V, 165mA (heater OFF)
Power Range	DC 9V ~ DC 48V
Heater Power Range	DC 9V ~ DC 12V
Operating Temperature	- 40°C to + 80°C
Lens Viewing angle	130° Diagonal, 102° Horizontal, 76° Vertical
Dimensions	Φ 52 mm, 72(W) x 52(D) x 63(H) incl. Bracket
Weight	Approx. 215g





FEATURES

- Compact Ball Camera
- 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)

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	DC 12V, 165mA (heater off)
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