MXN®

PROFESSIONAL CAMERA SYSTEMS

ALLROUND VISION FOR MOBILE PURPOSE

About MXN

MXN camera systems are the best choice to solve a vehicle's blind spot and reversing issues. All MXN camera systems in this catalogue are especially developed for professional mobile purposes such as rearview, sideview, frontview or general allround view on commercial and industrial vehicles.

Over many years the MXN product range has gained recognition and a very good reputation for reliability from customers worldwide.

The advanced MXN manufacturing facilities are founded on many years of practical experience by professional R&D teams, customer's demands and a stable growing sales network.
Within the range of the quality management system, various performance tests are conducted on a regular basis: waterproofing tests, vibration and temperature tests, saltspray and operation in harsh conditions tests, etc., generally fulfilled by independent testing institutes in order to guarantee the equipment's stability.

The professional MXN range of products, based on most recent developments and technology, are a major benefit for the safety of human beings. The installation of a MXN camera system, protects against collisions with financial and/or physical consequences and improves the drivers 'peace of mind'. Insurance premiums can be reduced in case of no-claims; the investment in a MXN camera system pays for itself!

High quality, durability and user-friendly are important keywords during development and production of every new MXN product. One of the unique sellingpoints of the MXN camera systems is the connectivity; all camera-inputs and all camera-outputs have been the same for many years already. For example: as it is today, a 16 year 'old' MXN camera or monitor can be connected to a current new MXN camera or monitor without installation of new camera-cables. All MXN cameras and all MXN monitors are compatible with each other.

MXN is committed to launching innovative products: MXN is the first to launch waterproof, high resolution digital LCD's with pre-heater function: A temperature controlled nano-heater element positioned behind the LCD panel ensures quick picture activation in extreme cold conditions. Most of the MXN cameras are supplied with temperature controlled heater elements in order to have clear sight during all weather conditions. Several camera models are provided with a 470.000 pixels CCD module, motorized shutter/wiper, anti-corrosive 3-fold coating and robust waterproof (stainless steel) housing. MXN is also the first to launch full touchscreen controlled LCD monitors, with splitscreen function, built-in speedswitch and an SD card based recorder in the top of the range model.
In addition to the products in this catalogue OEM and ODM solutions are possible upon request.

A variety of the MXN cameras and even monitors have reached the highest waterproof rating of IP69K. All MXN products are EMC approved and CE marked; several models are R46 and 2003/97/EC approved for indirect vision (frontview) for trucks.

The MXN camera systems are suitable for various applications including: trucks, trailers, buses and coaches, (mini-) vans, agriculture vehicles/machinery, loaders, garbage trucks, cranes, shovels, forklift trucks, leisure boats, commercial marine vessels and many more.

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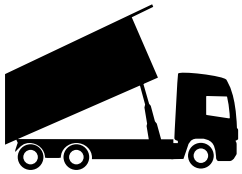


MXN-5DM

MXN-7DM

MXN-5DM / MXN-7DM features

- High resolution digital TFT LCD
- Light weight
- Free input voltage (DC 10V ~ 30V)
- LED backlight technology
- Capacitive touch control
- Motorized shutter-camera support
- Camera heater support
- 2 Camera inputs (4-pin mini DIN)
- 2 Trigger inputs
- Anti reflection window
- Automatic brightness control (day/night)
- Auto scan function
- Auto Power function
- PAL/NTSC compatible
- Multi-lingual OSD control
- Built-in speaker
- On screen distance marker (parking lines type A+B)
- Bracket rails and heavy duty mounting possibility
- Speedswitch function (via tacho signal, in case of frontview purpose)
- CE marked
- EMC approved

SPECIFICATIONS	MXN-5DM	MXN-7DM
Power range :	10V~30V DC	10V~30V DC
Power consumption :	Max. 12Watt	Max. 12Watt
Video system :	PAL, NTSC signal compatible	PAL, NTSC signal compatible
Panel :	5" digital	7" digital
Resolution :	640(H) X RGB X 480(V)	800(H) X RGB X 480(V)
Format :	4:3	4:3 / 16:9 wide
Brightness :	250cd/m2	400cd/m2
Contrast ratio :	500:1	500:1
Display mode :	Single	Single
Speaker :	8 Ω/0.3 Watt	8 Ω/0.3 Watt
Viewing angle :	Top: 50°, Bottom: 70°, Left: 70°, Right: 70	Top: 50°, Bottom: 70°, Left: 70°, Right: 70
Operating temperature :	-35°C ~ 80°C	-35°C ~ 80°C
Dimensions :	149(W) X 104(H) X 29(D)mm	195(W) X 109(H) X 22(D)mm
Weight :	Approx. 350g	Approx. 400g
Accessories :	-Mounting bracket (rail type) -Sunvisor -Screw kit -Instruction manual Optional: - Window bracket MXN-BR007 - Roof bracket MXN-BR008	-Mounting bracket (rail type) -Sunvisor -Screw kit -Instruction manual Optional: - Window bracket MXN-BR007 - Roof bracket MXN-BR008

MXN-P7D

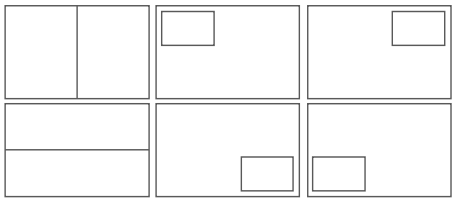
MXN-P7DQ

MXN-P7D / MXN-P7DQ features

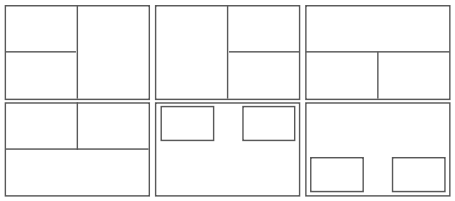
- High resolution 7" Digital TFT LCD
- Pre-heating control system (below 0°C), for quick startup at extreme cold temperatures
- Motorized shutter-camera support
- Camera heater support
- Water resistant (IP67)
- MXN-P7D: 3 Camera inputs, 3 Trigger inputs
- MXN-P7DQ: 4 Camera inputs & 1 AV Input, 4 Trigger inputs
- Anti reflection window
- Automatic brightness control (day/night)
- Auto Scan function
- Auto Power function
- PAL/NTSC compatible
- Multi-lingual OSD control
- Built-in speaker
- On screen distance marker (parking lines)
- Free input voltage (DC 10V ~ 30V)
- Bracket rails and heavy duty mounting possibility
- Speedswitch function (via tacho signal, in case of frontview purpose)
- Sunvisor – included
- All connections via one multi-cable (no external controlbox)
- CE marked
- EMC approved
- R46 and 2003/97/EC approved for indirect vision (with MXN22CW camera only)

Display modes MXN-P7DQ:

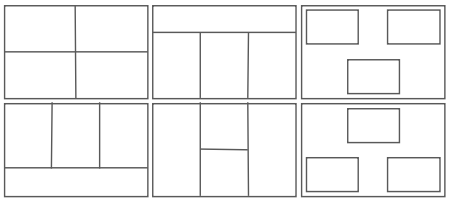
Split Modes



Triple Modes



Quad Modes



SPECIFICATIONS	MXN-P7D	MXN-P7DQ
Power range :	10V~30V DC	10V~30V DC
Power consumption :	12 Watt Max.	12 Watt Max.
Video system :	PAL, NTSC signal compatible	PAL, NTSC signal compatible
Panel :	7" Digital	7" Digital
Resolution :	800(H) X RGB X 480(V)	800(H) X RGB X 480(V)
Format :	16:9 wide	16:9 wide
Brightness :	400cd/m2	400cd/m2
Display mode :	Single	Single, Split, Triple, Quad, PIP
Camera input :	3 CH Mini DIN 4p-p 75 Ω	4 CH Mini DIN 4p-p 75 Ω
A/V input :	none	1 A/V input
Operating temperature :	-25°C ~ 75°C	-25°C ~ 75°C
Storage temperature :	-30°C ~ 85°C	-30°C ~ 85°C
Dimensions :	194(W) X 124(D) X 31.5(H)mm	194(W) X 124(D) X 31.5(H)mm
Weight :	Approx. 700g	Approx. 700g
O.S.D. control :	Multi-lingual	Multi-lingual
Accessories :	-Mounting bracket (rail type) -Sunvisor -Screw kit -Instruction manual	-Mounting bracket (rail type) -Sunvisor -Screw kit -Instruction manual

MXN-HD7DM

MXN-HD7DMQ

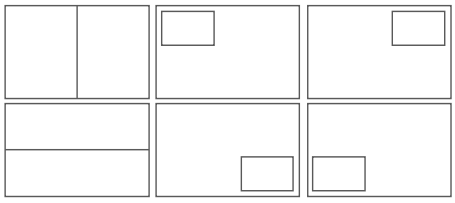
MXN-HD7DM / MXN-HD7DMQ features

- High resolution 7" digital TFT LCD
- LED backlight technology (500cd/m2)
- Heavy duty (robust) aluminum housing
- Auto-heating control system (below 0°C), for quick startup at extreme cold temperatures
- Motorized hutter camera support & camera heater support
- Water resistant (IP69K rating)
- Capacitive touch control
- MXN-HD7DM: 3 Camera inputs, 3 Trigger inputs
- MXN-HD7DMQ: 4 Camera inputs & 1 AV input, 4 Trigger inputs
- Anti reflection window
- Automatic brightness control
- Anti reflection window
- Auto scan function
- Auto Power function
- PAL/NTSC auto Switch
- Multi-lingual OSD control
- Built-in speaker
- On screen distance marker (parking line)
- Free input voltage (DC 10V ~ 30V)
- Bracket rails and heavy duty mounting possibility
- Speedswitch function (via tacho signal, in case of frontview purpose)
- Sunvisor – included
- All connections via one multi-cable (no external controlbox)
- CE marked
- EMC approved
- R46 and 2003/97/EC approved for indirect vision (monitor MXN-HD7DMQ + MXN22CW camera only)

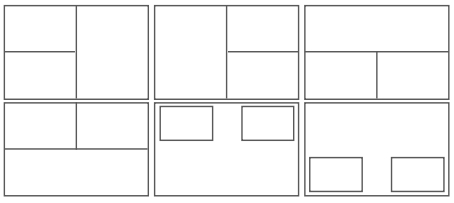
SPECIFICATIONS	MXN-HD7DM	MXN-HD7DMQ
Power range :	10V~30V DC	10V~30V DC
Power consumption :	12 Watt Max.	15 Watt Max.
Video system :	PAL, NTSC signal compatible	PAL, NTSC signal compatible
Panel :	7" digital	7" digital
Resolution :	800(H) X RGB X 480(V)	800(H) X RGB X 480(V)
Format :	16:9 wide	16:9 wide
Brightness :	500cd/m2	500cd/m2
Display mode :	Single	Single, Split, Triple, Quad, PIP
Camera input :	3 CH Mini DIN 4p-p 75 Ω	4 CH Mini DIN 4p-p 75 Ω
A/V input :	none	1 A/V input
Operating temperature :	-25°C ~ 75°C	-25°C ~ 75°C
Storage temperature :	-30°C ~ 85°C	-30°C ~ 85°C
Vibration resistant :	12G	12G
Dimensions :	190(W) X 142(D) X 42.85(H)mm	190(W) X 142(D) X 42.85(H)mm
Weight :	Approx. 790g	Approx. 790g
O.S.D. control :	Multi lingual	Multi lingual
Accessories :	-Mounting bracket (rail type) -Sunvisor -Screw kit -Instruction manual	-Mounting bracket (rail type) -Sunvisor -Screw kit -Instruction manual

Display modes MXN-HD7DMQ:

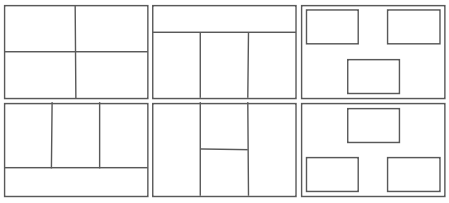
Split Modes



Triple Modes



Quad Modes

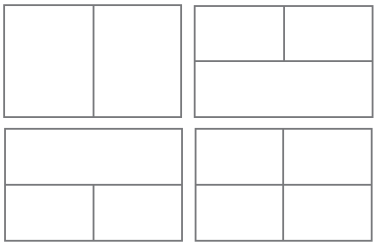


MXN-7DDT features

- 2DIN in-dash mounting
- High resolution 7" digital TFT LCD panel
- Free input voltage (DC10V ~ 30V)
- Touch screen
- Motorized shutter camera support & camera heater support
- Auto PAL-NTSC detection
- 4 camera inputs (4-pin mini DIN)
- 2 A/V inputs (RCA, for optional navigation computer or other external devices)
- 1 A/V output (RCA, for recording purpose or 2nd monitor)
- Multiple display modes (SINGLE, SPLIT, TRIPLE, QUAD)
- 5 Trigger inputs
- Automatic brightness control (DAY/NIGHT)
- Multi lingual OSD control
- Auto scan function
- Auto power function
- Speedswitch function (via tacho signal, in case of frontview purpose)
- Required indash depth: 44.6mm only!
- External speaker support
- CE marked
- EMC approved
- R46 and 2003/97/EC approved for indirect vision (with MXN22CW camera only)

Display modes MXN-7DDT:

split triple1



triple2 quad

SPECIFICATIONS	MXN-7DDT
Power range :	DC 10 ~ 30V
Power consumption :	DC 10 ~ 30V Max. 30 Watt.
Panel :	7" digital (16.9 wide screen)
Brightness :	400 cd/m2
Resolution :	800 x RGB X 480 pixels
Viewing angle :	Top: 70°, Bottom: 50°, Left: 70°, Right: 70°
Video system :	AUTO PAL-NTSC detection
Sync. system :	Internal
Touch screen :	4 wire analog touch panel
Display mode :	Single / Split / Triple / Quad
EXT. speaker support output :	Mono, max 1W, Class D AMP speaker out (+,- 2pin) Max 3.1V, 8 Ω
Camera inputs :	4 Inputs (4P Mini Din)
A/V input :	2 Inputs, RCA
A/V output :	1 output, RCA
Trigger inputs :	5 inputs (DC 9 ~ 30V)
Speed switch input :	1 input (tacho signal)
Auto brightness control :	Day/Night sensor
Operating temperature :	-20°C ~ 60°C
Storage temperature :	-30°C ~ 85°C
Dimensions :	178(W) X 110(D) X 44.6(H) mm
Weight :	640g
Accessories :	Trimbracket
	Decoframe type A (187.6x115.4mm)
	Decoframe type B (187.6x121.4mm)
	Sunvisor
	Screwkit
	Instruction manual

MXN-HD8QT features

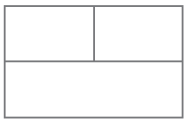
- Touch screen 8" High brightness TFT LCD
- Free input voltage (DC10V~30V)
- IP67 waterproof
- PAL-NTSC compatible
- Auto brightness control (Day/Night)
- 1 A/V input (RCA, for optional navigation computer or other external device)
- 4 Camera inputs (4-pin mini DIN)
- Heavy duty aluminum housing
- Multiple display modes (SINGLE, SPLIT, TRIPLE, QUAD)
- Easy installation
- Motorized shutter camera support
- Camera heater support
- On screen distance marker (parking lines)
- 5 triggers inputs
- OSD (On Screen Display)
- Auto scan function
- Speedswitch
- Autopower function
- CE marked
- EMC approved

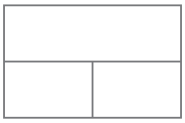
SPECIFICATIONS	MXN-HD8QT
Power range :	10V~30V DC
Video system :	Auto PAL-NTSC detection
Panel :	8" digital
Resolution :	800 RGB(H) X 480(V)
Format :	16:9 wide
Brightness :	450CD/m2 (Nits)
Camera inputs :	4 inputs (4P Mini DIN 1Vp-p)
A/V input :	1 input RCA (1Vp-p 75Ω / composite, audio)
Display mode :	Single, Split, Triple, Quad
Camera input (4CH) :	Mini DIN 4P, 1Vp-p 75Ω
Operating Temperature :	-20°C ~ 65°C
Storage Temperature :	-30°C ~ 85°C
Vibration resistant :	7G
Dimensions :	218mm X 150mm X 50mm (W x H x D)
Weight :	Approx 2,6 Kg

Display modes MXN-HD8DQT:

split

triple1





triple2

quad

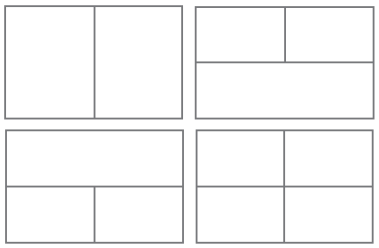
MXN-HD8DVRQ features

- Touch screen 8" High brightness TFT LCD
- 4CH, D1 resolution recording
- IP67 waterproof
- PAL-NTSC compatible
- GPS & G.sensor motion detection support
- Automatic brightness control (Day/Night)
- 4 SD card slots (anti-shock & easy data back-up)
- Heavy duty aluminum housing
- 4 Trigger inputs
- Multiple display modes (SINGLE, SPLIT, TRIPLE, QUAD)
- Emergency back-up battery (20 Min)
- Easy installation
- Digital watermark support
- Various recording mode (resolution, bitrate, framerate)
- Playback speed control for fast search with various search functions(time bar, calendar, event)
- Speedswitch
- Auto power function
- Motorized shutter camera support
- Camera heater support
- Wireless remote control
- On screen distance marker (Parking lines)
- CE marked
- EMC approved

SPECIFICATIONS	MXN-HD8DVRQ
Storage capacity :	4 pcs SD-card slot, 4x32 GB = total 128 GB (SD cards not included) *
Panel :	8"TFT LCD (WVGA 800 X 480 with touch panel)
Format :	16:9 wide
Brightness	450CD/m2 (Nits)
Camera :	4 CH + 1 CH (option) input (1 Vp-p, 75Ω) /NTSC, PAL
Video output :	CVBS 1 CH (1 Vp-p, 75Ω) /NTSC, PAL
Audio in :	4 CH (camera mic input 4 CH, mono, record)
Audio output :	1 CH (RCA) & build in speaker (1.2 Watt, mono)
Keys :	6 functional buttons at the front panel
Trigger :	4 inputs (cable input: 12 ~ 24 V)
Emergency backup :	Internal battery (2650mA/h)
Remote controller :	IR remote controller
GPS :	External module antenna (data storage, Google map link)
Power range :	12V ~ 24Vdc (12Vdc 1.5A)
Vibration resistant :	7G
Dimensions :	218mm X 150mm X 50mm (W x H x D)
Weight :	approx. 2.8 Kg
Operating system :	Embeded linux
Recording file :	Video Quality : High, Normal, Low Resolution : D1 / Half D1 / CIF Bitrate : 2 Mbps / 1 Mbps / 512 Kbps Framerate : rec. frame per sec. (select 4 step)
Recording performance :	4 CH full D1 rec. & 4 CH Mic. Rec. 120 fps D1 encoding + 120 fps D1 decoding @ NTSC 100 fps D1 encoding + 100 fps D1 decoding @ PAL
Video/Audio codec :	Video : H.264 main Profile @ level 4.0 (or lower) Audio : AMR codec
Image player support :	Capture image viewer BMP, Jpeg, MAX. Size : 1280 x 1024
O.S.D control :	Multi lingual
PC player :	Support (O/S -Windows)

Display modes MXN-HD8DVRQ:

split triple1



triple2 quad

* 4 pcs SD-card capacity (max. 32 GB each)
SD cards not included.

Recording Frame Rate				
PAL	Resolution	CIF	HalfD1	D1
		352X288	720X288	720X576
	tps	100	100	100
Function		Duplex	Duplex	Duplex

4CH Recording Time							
Video Format	Video Quality	Resolu-tion	Bit Rate	Recording Time			
				32 GB	64 GB	96 GB	128 GB
PAL (4 CH)	High (D1)	720 x 576 (25fps)	2Mbps	10h 10m	20h 20m	30h 30m	40h 40m
	Medium (Half D1)	720 x 288 (25fps)	1Mbps	17h 30m	35h	52h 30m	70h
	Low (CIF)	352 x 288 (25fps)	512kbps	36h 40m	73h 20m	110h	146h 40m

MXN12C / MXN12CW features

- 1/3" Color CCD high resolution
- IP68 waterproof
- MXN12C: diagonal 130° viewing angle mirror image (fixed setting)
- MXN12CW: diagonal 160° viewing angle normal image (fixed setting)
- Auto iris
- Compact aluminum housing
- Operating temp. -25°C ~ 65°C
- Vibration resistant (10G)
- Waterproof connector (IP67 4-pin mini DIN)
- Easy mounting
- CE marked
- EMC approved

SPECIFICATIONS	MXN12C / MXN12CW
Image sensor :	1/3" Color Sony super HAD CCD
Picture elements :	320.000 pixels (PAL)
Resolution :	380(H) TV lines
Minimum illumination :	0.1 lux at F1.2/AGC ON (Color)
Power range :	DC 8.0V ~ 15V
Power consumption :	DC12V, 70mA
Operating temperature :	-10°C to +50°C
Viewing angle :	MXN12C: 130°(D) x 100°(H) x 73°(V) MXN12CW: 160°(D) x 123°(H) x 92°(V)
Dimension :	Ø 30 mm(W) x 65 mm(L)
Weight :	Approx. 150g
Accessories :	1 set 15° washers, 1 set 6° washers, 1 pce 12mm metal spacer

MXN20C features

- Numberplate holder with build in camera
- 1/4" Sony super HAD Color CCD
- IP68 Waterproof
- 160° Wide viewing angle (diagonal)
- Day & Night view
- Normal/Mirror image adjustable
- Manual tilt function
- Auto iris
- Built-in microphone (for one-way audio)
- Anti-corrosive coating
- Operating temp. -50°C ~ +60°C
- Vibration resistant (10G)
- Small connector type in order to avoid drilling of big holes
- Easy mounting
- CE marked
- EMC approved

SPECIFICATIONS	MXN20C
Image sensor :	1/4" Sony super HAD color CCD
Picture elements :	320.000 pixels (PAL)
Resolution :	380 TV lines
S/N ratio :	More than 48dB
Minimum illumination :	0.1 lux at F2.0
Power range :	DC 9V ~ 16V
Power consumption :	DC12V, 150mA
Operating temperature :	-50°C to +60°C
Viewing angle :	160°(D) x123°(H) x 92°(V)
Dimension :	526(W) x 147(H) x 28(D) mm
Weight :	335g
Camera housing :	Aluminum die casted
Accessories :	10m cable (jack ~ 4-pin mini DIN male) 1 pce adhesive tempered glass (in case of frontview purpose)

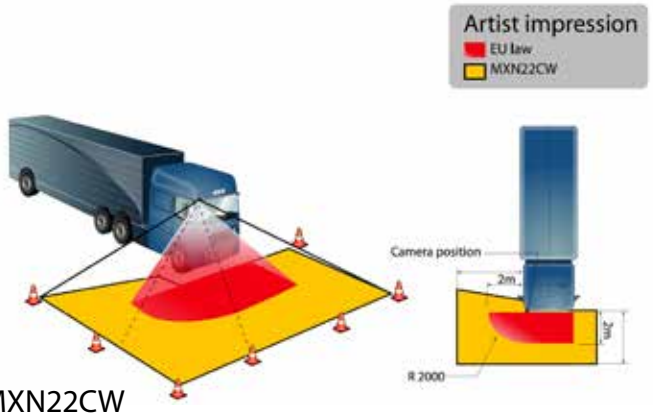
MXN22C features

- 1/3" color CCD high resolution image sensor
- IP69K waterproof rating
- Built-in IR LED's
- Diagonal 20° (MXN22C-020) 40° (MXN22C-040) 78° (MXN22C-078) or 130° (MXN22C) viewing
- Auto iris
- 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)
- CE marked
- EMC approved

SPECIFICATIONS	MXN22C
Image sensor :	1/3" Sony super HAD color CCD
Picture elements :	470.000 pixels (PAL)
Resolution :	520 TV lines
S/N ratio :	Minimum 44dB (at AGC off)
Minimum illumination :	0 lux (IR LED's on)
Power range :	DC 9 ~ 28V
Power consumption :	DC 12V, 350mA (heater on) DC 12V, 110mA (heater off)
Operating temperature :	-40°C to +80°C
Diagonal viewing angle :	MXN22C-020: 20°(D) x 16°(H) x 13°(V) MXN22C-040: 40°(D) x 29°(H) x 22°(V) MXN22C-078: 78°(D) x 62°(H) x 46°(V) MXN22C: 100°(H)x73°(V)x130°(D)
Dimension :	Ø 52 mm, 72(W) x 51(D) x 63(H) incl. bracket
Weight :	Approx. 215g

MXN22CW features

- 1/3" color CCD high resolution image sensor
- IP69K waterproof rating
- Built-in IR LED's
- Diagonal 160° viewing
- 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)
- CE marked
- EMC approved
- R46 and 2003/97/EC approved for indirect vision (only with monitor models MXN-P7D, MXN-P7DQ, or MXN-HD7DMQ)



SPECIFICATIONS	MXN22CW
Image sensor :	1/3" Sony super HAD color CCD
Picture elements :	470.000 pixels (PAL)
Resolution :	520 TV lines
S/N ratio :	Minimum 44dB (at AGC off)
Minimum illumination :	0 lux (IR LED's on)
Power range :	DC 9 ~ 28V
Power consumption :	DC 12V, 350mA (heater on) DC 12V, 110mA (heater off)
Operating temperature :	-40°C to +80°C
Viewing angle :	160°(D) x 123°(H) x 92°(V)
Dimension :	Ø 52 mm, 72(W) x 51(D) x 63(H) incl. bracket
Weight :	Approx. 215g

MXN22CHD features

- 1/3" color CCD high resolution image sensor
- IP69K waterproof rating
- Built-in IR LED's
- Diagonal 130° viewing
- 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)
- Ø 8 mm urethane cable with waterproof connector (oil, fuel and heat resistant)
- Extra thick tempered glass (2.7mm)
- CE marked
- EMC approved

MXN22CHDEX features

- 1/3" color CCD high resolution image sensor
- IP69K waterproof rating
- Diagonal 130° viewing
- Multi purpose (frontview, sideview, rearview, surveillance, etc)
- Built-in automatic heater (below +10°C)
- Saltwater resistant
- Temp. -40°C ~ 80°C
- Vibration resistant (10G)
- Ø 8 mm urethane cable with waterproof connector (oil, fuel and heat resistant)
- Extra thick tempered glass (2.7mm)
- Stainless Steel housing (SUS 316)
- CE marked
- EMC approved

SPECIFICATIONS	MXN22CHD	MXN22CHDEX
Image sensor :	1/3" Sony super HAD II color CCD	1/3" Sony super HAD II color CCD
Picture elements :	470.000 pixels (PAL)	470.000 pixels (PAL)
Resolution :	520 TV lines	520 TV lines
S/N ratio :	Minimum 44dB (at AGC off)	Minimum 44dB (at AGC off)
Minimum illumination :	0 lux (IR LED's on)	0.03 Lux
Power range :	DC 9 ~ 28V	DC 9 ~ 28V
Power consumption :	DC 12V, 350mA (heater on) DC 12V, 110mA (heater off)	DC 12V, 350mA (heater on) DC 12V, 110mA (heater off)
Operating temperature :	-40°C to +80°C	-40°C to +80°C
Viewing angle :	130°(D) x 100°(H) x 73°(V)	130°(D) x 100°(H) x 73°(V)
Dimension :	Ø 52 mm, 72(W) x 51(D) x 63(H) incl. bracket	Ø 52 mm, 72(W) x 51(D) x 63(H) incl. bracket
Weight :	Approx. 215g	Approx. 290g

MXN28C features

- 1/4" color CCD high resolution camera
- IP68 waterproof housing
- Compact camera
- Diagonal 160° viewing
- Mirror image (fixed setting)
- Low-illumination
- Small connector type in order to avoid drilling of big holes
- Stainless steel bracket
- Vibration resistant (10G)
- CE marked
- EMC approved

SPECIFICATIONS	MXN28C
Image sensor :	1/4" Sony super HAD II color CCD
Picture elements :	320.000 pixels (PAL)
Resolution :	380 TV lines
S/N ratio :	Minimum 42dB
Minimum illumination :	0.1 lux
Power range :	DC 12V (6V ~18V)
Power consumption :	DC 12V, 70mA (Max)
Operating temperature :	-30°C to +80°C
Viewing angle :	160°(D) x 120°(H) x 88°(V)
Dimension :	26.86(W) x 22(H) x 33(D) mm
Weight :	Approx. 300g
Material :	Aluminum
Cable length :	Camera 60cm, extension 25cm
Video output :	1.0V p-p composite 75Ω
Shutter control :	1/50 ~ 1/100.000 sec.

MXN56C features

- 1/3" color CCD high resolution image sensor
- IP69K waterproof rating
- Built-in IR LED's
- Diagonal 130° viewing
- Mirror image (fixed setting)
- Built-in microphone (one-way audio)
- Auto iris
- Built-in automatic heater (below +10°C)
- Anti-corrosive coating
- Temp. -30°C ~ 80°C
- Vibration resistant (10G)
- Waterproof screw type connector (IP67), 4-pin mini-DIN
- CE marked
- EMC approved

SPECIFICATIONS	MXN56C
Image sensor :	1/3" Sony super HAD II color CCD
Picture elements :	470.000 pixels (PAL)
Resolution :	520 TV lines
S/N ratio :	Minimum 47dB
Minimum illumination :	0 lux (IR LED's on)
Power range :	DC 12V
Power consumption :	DC 12V, 300mA
Operating temperature :	-30°C to +80°C
Viewing angle :	130°(D) x 110°(H) x 81°(V)
Dimension :	65(W) x 40(H) x 46(D)mm
Weight :	Approx. 350g

MXN80C features

- 1/3" color CCD high resolution image sensor
- Motorized shutter
- IP69K waterproof rating
- Built-in IR LED's
- Diagonal 130° viewing
- Normal/Mirror image adjustable
- Built-in microphone (one-way audio)
- Ultra low light performance
- Built-in automatic heater (below +10°C)
- Anti-corrosive coating
- Auto iris
- Temp. -40°C ~ 80°C
- Vibration resistant (10G)
- Waterproof screw type connector (IP67), 4-pin mini-DIN
- CE marked
- EMC approved

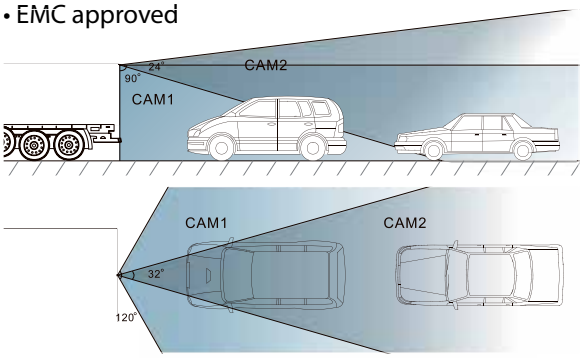
MXN81C features

- 1/3" color CCD high resolution image sensor
- IP69K waterproof rating
- Built-in IR LED's
- Diagonal 130° viewing
- Normal/Mirror image adjustable
- Built-in microphone (one-way audio)
- Ultra low light performance
- Built-in automatic heater (below +10°C)
- Anti-corrosive coating
- Auto iris
- Temp. -40°C ~ 80°C
- Vibration resistant (10G)
- Waterproof screw type connector (IP67), 4-pin mini-DIN
- CE marked
- EMC approved

SPECIFICATIONS	MXN80C	MXN81C
Image sensor :	1/3" Sony super HAD II color CCD	1/3" Sony super HAD II color CCD
Picture elements :	470,000 pixels (PAL)	470,000 pixels (PAL)
Resolution :	520 TV lines	520 TV lines
S/N ratio :	Minimum 44dB (at AGC off)	Minimum 44dB (at AGC off)
Minimum illumination :	0 lux (IR LED's on)	0 lux (IR LED's on)
Power range :	DC 9 ~ 28V	DC 9 ~ 28V
Power consumption :	DC 12V, 475mA (heater on) DC 12V, 245mA (heater off)	DC 12V, 325mA (heater on) DC 12V, 110mA (heater off)
Operating temperature :	-40°C to +80°C	-40°C to +80°C
Viewing angle :	130°(D) x 96.2°(H) x 69°(V)	130°(D) x 96.2°(H) x 69°(V)
Dimension :	102(W) x 43(H) x 63(D) mm	102(W) x 43(H) x 63(D) mm
Incl. bracket & sunvisor :	124(W) x 85(H) x 80(D) mm	124(W) x 85(H) x 80(D) mm
Weight :	400g	350g
Incl. bracket & sunvisor :	550g	500g

MXN94C features

- Twin view camera (2 pictures)
- 1/3" super HAD color CCD (2 pcs)
- Motorized shutter
- IP69K waterproof rating
- Built-in IR LED's
- Normal/Mirror image adjustable
- Built-in microphone (one-way audio)
- Viewing angle lens CAM1: 150°(D) x 120°(H) x 90°(V)
- Viewing angle lens CAM2: 53°(D) x 43°(H) x 32°(V)
- Ultra low light-performance
- Built-in automatic heater (below +10°C)
- Anti-corrosive coating
- Auto iris
- Temp. -30°C ~ 80°C
- Vibration resistant (7G)
- Automatic window cleaning (wiper function)
- Waterproof screw type connector (IP67), 6-pin mini-DIN*
- CE marked
- EMC approved



MXN95C features

- Twin view camera (2 pictures)
- 1/3" super HAD color CCD (2 pcs)
- IP69K waterproof rating
- Built-in IR LED's
- Viewing angle lens CAM1: 150°(D) x 120°(H) x 90°(V)
- Viewing angle lens CAM2: 53°(D) x 43°(H) x 32°(V)
- Normal/Mirror image adjusting
- Built-in microphone (one-way audio)
- Ultra low light-performance
- Built-in automatic heater (below +10°C)
- Anti-corrosive coating
- Auto iris
- Temp. -30°C ~ 80°C
- Vibration resistant (7G)
- Waterproof screw type connector (IP67), 6-pin mini-DIN*
- CE marked
- EMC approved

SPECIFICATIONS	MXN94C	MXN95C
Image sensor :	1/3" interline transfer color CCD	1/3" interline transfer color CCD
Picture elements :	470.000 pixels (PAL)	470.000 pixels (PAL)
Resolution :	More than 520 TV lines	More than 520 TV lines
S/N ratio :	Minimum 50dB (at AGC off)	Minimum 50dB (at AGC off)
Minimum illumination :	CAM1 0 Lux (IR LED's on) CAM2 1 Lux	CAM1 0 Lux (IR LED's on) CAM2 1 Lux
Power range :	DC 12V	DC 12V
Power consumption :	Max. 5.0W (IR LED's & heater on)	Max. 5.0W (IR LED's & heater on)
Operating temperature :	-30°C ~ 80°C	-30°C ~ 80°C
Viewing angles :	Lens CAM1: 150°(D) x 120°(H) x 90°(V) Lens CAM2: 53°(D) x 43°(H) x 32°(V)	Lens CAM1: 150°(D) x 120°(H) x 90°(V) Lens CAM2: 53° (D) x 43°(H) x 32°(V)
Dimension :	114(W) x 57(H) x 59(D) mm	114(W) x 57(H) x 59(D) mm
Weight :	Approx. 650g	Approx. 600g
Accessories :	Wiper rubber (2 spare pcs) Y-splitter (6-pin IP female ~ 2x 4-pin IP male) 2 pcs adapter cable (ADP-10)	Y-splitter (6-pin IP female ~ 2x 4-pin IP male) 2 pcs adapter cable (ADP-10)

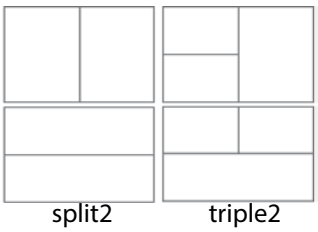
*Optional extension cables for MXN94C and MXN95C only: DINWW6P10M (10 meter) or DINWW6P20M (20 meter)

MXN201C features

- Universal controlbox to connect MXN cameras and any monitor with RCA (composite video input)
- Free input voltage (DC 10V~32V)
- NTSC or PAL compatible
- 4 camera inputs /1 AV input / 1 AV output
- 12V DC trigger output (to activate any monitor with trigger function)
- Multiple display mode (Single, Split, Triple, Quad, PiP)
- Shutter camera support & camera heater support
- Automatic picture display (5 trigger inputs)
- On screen distance marker (parking lines)
- Auto scanning function
- On Screen Display (OSD)
- Wireless remote control
- External IR receiver

Display modes MXN201C:

split1 triple1



split2 triple2

triple3 triple4

PiP1 PiP2

quad1 PiP3

quad2 quad3

SPECIFICATIONS	MXN201C	
Power range :	DC 10V ~ 32V	
Power consumption :	Max. 25 Watt	
Video system :	NTSC or PAL compatible	
Camera input (4CH) :	Mini DIN 4, 1Vp-p 75Ω	
A/V output (1CH) :	RCA, composite video signal, 1Vp-p 75Ω RCA, audio signal, 150m V RMS, 47K	
A/V input (1CH) :	RCA, composite video signal, 1Vp-p 75Ω RCA, audio signal, 150m V RMS, 47K	
Operating temperature :	-25°C to +75°C	
Storage temperature :	-30°C to +85°C	
Ambient condition :	Indoor use only	
Vibration :	5.5 G	
Dimension :	154(W) x 105(H) x 29(D) mm	
Weight :	Approx 500g	
Accessories :	Power cord 2M	(1pce)
	Audio/Video RCA cable, 1M	(1pce)
	Screw kit	(1pce)
	Bracket jack	(2pcs)
	Remote controller	(1pce)
	IR receiver for remote controller	(1pce)

DINW series

High quality STANDARD cable, to be installed between MXN camera and MXN monitor/LCD.
It is important to measure the required cable length(s) before purchasing a camera system.
This cable has a waterproof female connector (IP67, 4-pin mini DIN) on the camera side and a normal male connector (4-pin mini DIN) on the monitor/LCD side.
Available lenghts as below:

DINW5M
- 5 meter STANDARD cable (IP female~male)

DINW10M
- 10 meter STANDARD cable (IP female~male)

DINW15M
- 15 meter STANDARD cable (IP female~male)

DINW20M
- 20 meter STANDARD cable (IP female~male)

DINW40M
- 40 meter STANDARD cable (IP female~male)

DINW80M
- 80 meter STANDARD cable (IP female~male)

DINWW series

High quality EXTENSION cable, to be installed between an existing STANDARD cable (see above) and MXN camera.
Or to be installed between a TRAILERSET CAMSOCKET-F and MXN camera.
It is important to measure the required cable length(s) before purchasing a camera system.
This cable has a waterproof male & female connector (IP67, 4-pin mini DIN) on each side.
Available lenghts as below:

DINWW5M
- 5 meter EXTENSION cable (IP female~IP male)

DINWW10M
- 10 meter EXTENSION cable (IP female~IP male)

DINWW15M
- 15 meter EXTENSION cable (IP female~IP male)

DINWW20M
- 20 meter EXTENSION cable (IP female~IP male)

DINWW40M
- 40 meter EXTENSION cable (IP female~IP male)

For MXN94C and MXN95C twin view cameras only:

DINWW6P10M
- 10 meter EXTENSION cable (6-pin IP female ~ 6-pin IP male)

DINWW6P20M
- 20 meter EXTENSION cable (6-pin IP female ~ 6-pin IP male)

HDINW series

Heavy duty STANDARD cable (Ø 8mm urethane: oil-, heat- and fuel-proof).
To be installed between MXN camera and MXN monitor/LCD. It is important to measure the required cable length(s) before purchasing a camera system.
This cable has a waterproof female connector (IP67, 4-pin mini DIN) on the camera side and a normal male connector (4-pin mini DIN) on the monitor/LCD side.
Available lenghts as below:

HDINW5M
- 5 meter urethane, STANDARD cable (IP female~male)

HDINW10M
- 10 meter urethane, STANDARD cable (IP female~male)

HDINW15M
- 15 meter urethane, STANDARD cable (IP female~male)

HDINW20M
- 20 meter urethane, STANDARD cable (IP female~male)

HDINWW series

Heavy duty EXTENSION cable (Ø 8mm urethane: oil-, heat- and fuel-proof).
To be installed between an existing STANDARD cable (see above) and MXN camera.
Or to be installed between a Trailerset CAMSOCKET-F and MXN camera.
It is important to measure the required cable length(s) before purchasing a camera system.
This cable has a waterproof male & female connector (IP67, 4-pin mini DIN) on each side.
Available lenghts as below:

HDINWW5M
- 5 meter urethane, EXTENSION cable (IP female~IP male)

HDINWW10M
- 10 meter urethane, EXTENSION cable (IP female~IP male)

HDINWW15M
- 15 meter urethane, EXTENSION cable (IP female~IP male)

HDINWW20M
- 20 meter urethane, EXTENSION cable (IP female~IP male)

TRAILERSET features

- Plug & Play
- Oil-, Heat- and Fuel proof coil cable with proper memory capacity
- Unique (not interchangeable with existing connectors)
- Aluminum 7-pin connector with solid lock function
- Urethane coil cable, expendable up to 4.5 meter
- Both sides of Coil cable detachable
- Supports Heater function and Motorized Shutter function

1 CAMTRAILERSET

Truck-Trailer set for 1 camera.

This set contains 3 parts:
- 1CAMSOCKET-M (truck side)
- CURL-E (coil cable)
- 1CAMSOCKET-F (trailer side)

To mount the 1CAMTRAILERSET as a complete system it is important to choose the optional, required cable length in advance:
One STANDARD cable (DINW) is required on the Truck side and one EXTENSION cable (DINWW) is required on the Trailer side.

2CAMTRAILERSET

Truck-Trailer set for 2 cameras.

This set contains 3 parts:
- 2CAMSOCKET-M (truck side)
- CURL-E (coil cable)
- 2CAMSOCKET-F (trailer side)

To mount the 2CAMTRAILERSET as a complete system it is important to choose the optional, required cable length in advance:
Two STANDARD cables (DINW) are required on the Truck side and two EXTENSION cables (DINWW) are required on the Trailer side.
(*This set does not support one-way Audio function via CA2)

3CAMTRAILERSET

Truck-Trailer set for 3 cameras.

This set contains 3 parts:
- 3CAMSOCKET-M (truck side)
- CURL-E (coil cable)
- 3CAMSOCKET-F (trailer side)

To mount the 3CAMTRAILERSET as a complete system it is important to choose the optional, required cable length in advance:
Three STANDARD cables (DINW) are required on the Truck side and three EXTENSION cables (DINWW) are required on the Trailer side.
(*This set does not support one-way Audio function via CA2 and CA3)

CURL-E cable

Oil-, Heat- and Fuel proof coil cable with proper memory capacity
Aluminum 7-pin connector with solid lock function
Urethane coil cable, expendable up to 4.5 meters

ADP-1

Adapter cable, to connect a MXN camera and any monitor with (composite video) RCA input. (4-pin mini DIN female ~ RCA male A/V and 12V DC input)

ADP-2

Adapter cable, to connect any (composite) video source with a MXN camera input terminal. (4-pin mini DIN male ~ RCA female A/V and 12V DC output)

ADP-5

Adapter cable, to connect a MXN camera with a Waeco/Camos monitor. (4-pin mini DIN female ~ 6-pin mini DIN male)

ADP-6

Adapter cable, to connect a Waeco/Camos camera with a MXN monitor. (6-pin mini DIN female ~ 4-pin mini DIN male)

ADP-10

Adapter cable, to connect a MXN camera with a MXN monitor (waterproof MXN 4-pin mini DIN female ~ MXN 4-pin mini DIN male)

ADP-15

Adapter cable, to connect a MXN camera with an Orlaco cable (waterproof MXN 4-pin mini DIN female ~ Orlaco 4-pin male)

ADP-16

Adapter cable, to connect a MXN monitor with an Orlaco cable (MXN 4-pin mini DIN male ~ Orlaco 4-pin female)

ADP-30

Adapter, to connect one MXN camera with two MXN monitors. (4-pin mini DIN female ~ 4-pin mini DIN male and IP 4-pin mini DIN male)

ADP-32B

Auto-switch adapter with source detection for two MXN cameras, to be used together with a MXN Trailerset. Model ADP-32B detects whether the CURL-E cable between Tractor & Trailer is connected or not. If connected:
CA2 is displayed. In case CURL-E disconnected: CA1 is displayed.

ADP-36FV

Adapter, to connect a MXN motorized shutter camera and any monitor with RCA Input (Composite Video). The yellow trigger wire is suitable for 12/24V DC. The motorized shutter opens/closes via the yellow trigger wire. (4-pin mini DIN female ~ RCA male A/V, 12V DC Input & 12/24V DC Trigger)

MXN-P7HD7EXT3

Optional extension cable for multi-cable from MXN-P7 series and MXN-HD7 series (3 meter 26 pin male - 26 pin female)

MXN-P7HD7EXT10

Optional extension cable for multi-cable from MXN-P7 series and MXN-HD7 series (10 meter 26 pin male - 26 pin female)

MXN-BR001
Standard bracket (adhesive)
max. length: 65 mm

MXN-BR006
Suction window bracket
max. length: 172 mm

MXN-BR007
Adhesive window bracket
max. length: 65 mm

MXN-BR008
Roof mount bracket
max. length: 145 mm

MXN-BR10S
Heavy duty mount bracket
max. length: 103 mm

MXN-BR10L
Heavy duty mount bracket
max. length: 205 mm

CAMERA BRACKET

BRMXN22VAN

- Universal roof mount bracket for MXN22 ball camera series.
- Suitable for small and mid size delivery vans, such as:
  Mercedes Sprinter, Volkwagen Crafter,
  Ford Transit, Peugeot Boxter, Fiat Ducato, etc..
- Easy installation
- Aerodynamic and fashionable design
- Robust housing
- Camera viewing direction adjustable
- 210 x 124 x 66 mm (L x W x H)

* Camera not included.

MXN DEALERS

MXN®

Allround vision for mobile purpose

www.mxn.eu

Dealer:

Design and specifications in this catalog are subject to change without notice.