MOBOTIX

Product Portfolio 2009

HiRes Video Innovations

The German company MOBOTIX AG is known as the leading pioneer in network camera technology and its decentralized concept has made high-resolution video systems cost efficient.

MOBOTIX AG • D-67722 Langmeil • Tel: +49-6302-9816-103 • Fax: +49-6302-9816-190 • sales@mobotix.com

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HiRes
3 Megapixel
2048 x 1536
Software zoom

Skyline
Format free
Each image format
freely definable

30 Frames/s
VGA (640 x 480)
30 F/s Mega

Virtual PTZ
Digital pan, tilt,
zoom

Backlight
Safe using CMOS
without mechanical iris

Internal DVR
Internal via SD card,
external via Network

Win/Lin/Mac
Recording
via Network on PC
up to 1 Terabyte

Microphone & speaker
Audio
bi-directional via IP,
variable framerates

SIP-Client with video
IP Telephony
Alarm notify,
cam remote control

VideoMotion
Multiple windows
precision pixel-based

-22°F ... +140°F
Weatherproof
- 30° ... +60°C, IP65,
no heating necessary

IEEE 802.3af
PoE
Network power
even in winter

Robust
No moving parts
fiber glass housing

MxCC/MxEasy
Licence free
Video-Management-
Software

MOBOTIX Technical Advantages

The HiRes Video Company

MOBOTIX

1 **Progressive-scan instead of half-frame blur**
Mega pixel sensor and image processing inside camera with digital white balance generates sharp and true color images at every scale

2 **Sun and backlight compensation**
CMOS-sensor without autoiris, digital contrast enhancement and configurable exposure measurement zones guarantee optimal exposure control

3 **Dual camera technology: 2-in-1**
Two possible camera views with picture-in-picture technology or 180° panoramic view; one Dual-Fixdome camera with 2.5 megapixel is enough

4 **Long-term, high-performance Terabyte recording included**
Event detection and ring buffer recording by the camera itself allow recording of 40 smooth video streams on a single PC (1200 VGA images/s)

5 **Simultaneous recording, event search and live viewing**
Live video for multiple users, recording and event search simultaneously possible in seconds from anywhere in the world via network

6 **Very low network load**
Efficient MxPEG video codec, motion detection based recording and video buffering inside camera guarantee a very low network load

7 **Bridging of recording during network failures**
Internal camera ring buffer bridges network failures and bandwidth fluctuations of wireless links (WLAN/UMTS) for several minutes

8 **Day & night maintenance free**
Unique Day/Night camera technology without moving parts guarantees extreme light sensitivity and ensures long-term reliability

9 **Audio and SIP telephony**
Lip-synchronized audio (live & recording); each camera is a video IP telephone based on SIP standard with automatic alarm call and remote control

10 **MxControlCenter included**
Dual screen technology with building plans, free camera positioning, event search, image processing, lens distortion correction and PTZ support

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MOBOTIX Cost Benefits

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1 **Increased resolution reduces amount of cameras needed**
1536-line, high-resolution sensors give a better overview and allow monitoring an entire room with just one camera from the corner

2 **Reduced installation costs at any distance**
Standard Ethernet connection enables the use of common network components such as fiber, copper and wireless (WLAN)

3 **Intelligent recording technology reduces required storage**
Decentralized recording technology in the camera software puts less strain on PCs and reduces the amount of storage PCs (DVRs) by 10 times

4 **Event-controlled image rate minimizes storage costs**
Event-driven, automatically adjusted recording frame rate based on event or sensor action reduces amount of data and storage costs

5 **No additional power and no heating required**
Anti-fogging without heating allows usage of standard PoE technology to power the system via network and saves costs of power cabling

6 **Backup power requirement reduced by 8 times**
Low power consumption, 3 Watt, enables year-round (no heating required) PoE with one centralized UPS from installation room via network

7 **Robust and practically maintenance free**
Fiberglass-reinforced composite housing with built-in cable protection and no mechanical moving parts (no autoiris) guarantees longevity

8 **No software and no licence costs**
Control and recording software is integrated in the camera and is free of charge; new functions are available via free software downloads

9 **Unlimited scalability and high return of investment**
While in use, more cameras and storage can be added at any time; image format, frame rate & recording parameters can be camera specific

10 **Additional functions and other extras included**
Audio support, lens, wall mount and weatherproof housing (-30° .. 60°C; -22° .. 140°F) are included; microphone & speaker available in certain models

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MxControlCenter 2.1

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High Performance Video Management

MOBOTIX, a solutions provider, presents the **MxControlCenter**, a video management system that can configure not only **MOBOTIX** cameras, but also IP and analog cameras from other vendors. The **MxControlCenter** offers a wide variety of functions that are either not present in conventional video management systems or only with considerable restrictions.

Thanks to the professional control center with fast live image display and user-friendly search function, you always have everything in sight, even in systems with many cameras. Relevant events are exported to AVI format.

The **MxControlCenter** also serves as site plan software. You can save different building plans in JPG image format. A specified camera can be immediately selected by clicking on the freely positioned camera symbol.

The integrated alarm management system makes it much easier to process events: you are presented with a detailed overview of the status of your system and reliably informed of any new events occuring. Alarm indications (visual or by audio signal) can be individually configured.

An efficient tool is needed for camera management, particularly if there are many IP cameras in the network. **MxControlCenter** also supports this. New cameras in the network are automatically detected and settings can be transferred to all cameras at the same time using the configuration tools, making software updates extremely easy.

Features Overview

- Professional full version included in every MOBOTIX camera

- No limitations on number of users or cameras, no license fees

- Remote configuration via IP or ISDN with alarm and change in layout

- Event search with time tracking over multiple cameras

- Image post-processing (contrast, zoom, lens distortion)

- Supports analog and digital PTZ cameras

- hierarchical structure of layouts + plans

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MSRP (Manufacturer's suggested retail prices) • Prices ex-works Langmeil Germany (EXW) • excluding VAT and any other handling charges

Information subject to change without notice! • Product Portfolio 2009 • Date: 5/2009

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News • Q24

Hemispheric Q24M

Description

MOBOTX ultra-compact, weatherproof IP-Dome camera is so inconspicuous that many do not recognize it to be a camera. Thanks to its 360° allround view, the camera can monitor and record, event-driven, an entire room.

- Hemispherical allround view for complete room coverage
- Digital, continuous zooming and panning
- Robust and maintenance-free, without mechanically moving parts
- Event-controlled, complete room recording directly in the camera
- Alarm function, speaker and microphone integrated
- Discreet and inconspicuous design

Delivery Options

The camera is offered with a **Hemispheric 360°** lens (11 mm) or with a 90° lens (22 mm) both as day camera.

Available Accessories

MX-Q24M-Vandal-ESPO	**MX-OPT-IC**	**MX-OPT-AP**	**MX-OPT-WH**	**MX-ExtIO**
• Stainless steel vandalism housing incl. lens protection • matt, polished	• In-Ceiling set incl. mounting parts • Easy mounting from front • Suitable for hidden surveillance • 150 mm installation standard	• Consists of On-Wall Mount and mounting parts zur 10° geneigten Montage • Also conforms to U.S. installation standards • Reliably protects the cabling and allows integrating additional modules within the On-Wall Mount	• Consists of Outdoor Wall Mount and mounting parts • Covers RJ45 wall outlets • Space for expansion modules (battery, 3g, WiFi, etc.) • Easily mounted to poles using Pole Mount	• Microphone/speaker • PIR sensor for motion detection, temperature sensor • Integrated switch functions (2 x Input, 2 x Output)
198 €	98 €	98 €	98 €	198 €
Details see page 49	Details see page 48	Details see page 48	Details see page 48	Details see page 44

News • Internal Flash Recording

MOBOTIX

The HiRes Video Company

Internal Flash Recording | MOBOTIX camera + integrated 16 GB storage device

Internal flash recording enables **MOBOTIX** to integrate recording capacities directly in the camera, thus replacing the PC and digital video recorders (DVRs) previously required. This new feature adds a further benefit to the decentralised **MOBOTIX** concept: network load is reduced to a minimum as data no longer has to be transported via the network, even for long-term storage purposes. Mechanical moving parts, either in the camera itself or in the form of a fixed disk in the PC, are a thing of the past for the new **MOBOTIX** solution. Thus no time is wasted on the installation, configuration and maintenance of external devices - the camera becomes a stand-alone solution.

An **16 GB-memory** integrated in the camera ensures that image data is archived both reliably and permanently. As it is stored in the camera itself, even narrow-band networks cease to be a problem, as storage takes place at a high image rate ahead of the network "bottleneck". The network only has to be used if the recorded image material needs to be read out for research purposes. Moreover, images are recorded in purely digital fashion without the use of moving parts, rendering the maintenance of PC recorders or DVRs a thing of the past. The **MOBOTIX** "robust", "low-maintenance" and "weatherproof" quality criteria, plus the wide temperature range of -30 °C to +60 °C (-22°F to + 140°F), thus also apply to this enhancement.

The application fields for cameras with an integrated long-term storage system vary widely, ranging from the mobile sector via long-term documentation for building sites all the way to use in weekend homes, banks and post offices.

Internal flash recording is available for the Secure models of the camera series **M12**, **D12** and **M22**, as well as the **V12** vandalism-proof model. The medium is installed at the factory.

Available for SECURE-Models:

M22M-SEC-D22-R16	**M12D-SEC-DNight-D43N43-R16**	**D12Di-SEC-D43N43-R16**	**V12-SEC-D22D43-R16**
Allround-Camera for indoor- and outdoor use. image resolution up to 3MEGA-Pixel, 2048 x 1536 pixels	Dual-Outdoor-Camera, highest Quality in color and best night sensitivity, image resolution up to 3MEGA-Pixel, 2048 x 1536 pixels	Dual-Dome-Camera, highest Quality in color and best night sensitivity, image resolution up to 3MEGA-Pixel, 2048 x 1536 pixels	Vandalism protected indoor camera, image resolution up to 3MEGA-Pixel, 2048 x 1536 pixels
from 998 €	from 1498 €	from 1498 €	from 2748 €
Details see page 25	Details see page 30	Details see pagee 35	Details see page 40

Available lenses

M22 Models	**M12D Models**	**D12Di Models**	**V12 Models**
D22, D32. D43, D65, D135, N22, N32, N43, N65, N135	D22, D43, D135, N22, N43, N135	D22, D32, D43, D65, D135, N22, N32, N43, N65, N135	D22, D43, N22, N43

MOBOTIX Camera Series

The HiRes Video Company

MOBOTIX

DualNight M12D

High-quality network cameras for day-and-night use!

- Dual outdoor camera (IP 65) with brilliant image quality during the day and highest sensitivity at night thanks to two separate image sensors for color and B/W

- Ideal for challenging lighting conditions or IR lighting

- PIR sensor for motion detection in the dark

- Microphone and speaker with full audio functionality (VoIP and SIP telephony, including Video SIP)

- Integrated ISDN S0 connection (telephony, Internet)

- Integrated switch functions (1 x input, 1 x output), RS232

- Concealed cabling for RJ45 wall outlet

DualNight D12D

Universal Fixdome-network cameras for use in environments with elegant design requirements!

- Dual dome camera with brilliant image quality during the day and highest sensitivity at night thanks to two individual image sensors for color and B/W

- 180° panorama with 2,5 megapixels

- PIR sensor for motion detection in the dark

- Microphone and speaker with full audio functionality (VoIP and SIP telephony, including Video SIP)

- Integrated ISDN S0 connection (telephony, Internet)

- Integrated switch functions (1 x input, 1 x output), RS232

- Outdoor wall mount (IP65), space for expansion modules

MOBOTIX Camera Series

The HiRes Video Company

MOBOTIX

Allround M22M

Highest image quality at the best price!

- Outdoor camera (IP65) with exchangeable lenses for indoor/outdoor use, available as Day or Night version

- Lenses available from Super Wide-Angle (90°) to tele (15°)

- Exposure time 1 lux at 1/60 sec; 0,05 lux at 1 sec

- Microphone and speaker with full audio functionality (VoIP and SIP telephony, including Video SIP)

- Universal wall/ceiling mount perfectly covers RJ45 outlet and conceals the cabling

- Flexible use due to replaceable lenses, removable lens cap

- Compact housing made of robust, fiberglass-reinforced composite

MonoDome D24M

Attractively-Priced, High-Resolution Dome camera!

- Outdoor dome camera (IP65) with exchangeable lenses and optional Vandalism-, On-Wall and In-Ceiling sets

- Lenses available from Super Wide-Angle (90°) to tele (15°)

- Exposure time 1 lux at 1/60 sec; 0,05 lux at 1 sec

- Vandalism set (optional) consists of stainless steel ring (polished, matt, powder-coated) and reinforced dome

- On-Wall set (optional) features concealed cabling and space for expansion modules (batteries, UMTS, WiFi, etc.)

- Outdoor wall mount (IP65) (optional) with space for expansion modules

MOBOTIX Camera Series

LPF-Cameras: M12D-SEC-LPF

Description

MOBOTIX LPF models are cameras that are specially equipped in the factory for automatic number plate recognition (ANPR). The MOBOTIX LPF cameras have special optics that work with infrared light to provide optimal imaging conditions for automatic number plate recognition. The recognition comprises five steps: localizing the number plate in the image, determining the spatial position, normalization, segmenting the characters and, finally, character recognition.

The quality of the entire process depends on the quality of the results of each individual step. The MOBOTIX LPF cameras make a valuable contribution particularly in "localization" and "character segmentation". Reflecting surfaces stand out clearly from the rest of the background; contrast is very clear, thus producing clear outlines and making accurate definition of the letters possible. The cameras can be used around the clock and, when combined with an infrared emitter, deliver excellent results under all lighting conditions.

In addition to the sensor with the special optics, MOBOTIX LPF cameras are equipped with a B/W sensor (megapixel resolution of 1280x960 pixels), so that in addition to the image provided for analysis, an overview image of the scene exists that can be used for evidence (e.g. driver identification).

The HiRes Video Company

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*partially concealed

	M22M-IT	M22M-IT-Night	M22M-Sec	M22M-Sec-Night	M22M-Sec-CSVario	M22M-Sec-Night-CSVario
Hardware Features						
Mono/Dual System/Night switching	M	M	M	M	M	M
Outdoor weatherproof (IP65)	X	X	X	X	X	X
Resolution	**VGA**	**VGA**	**3MEGA**	**MEGA**	**3MEGA**	**MEGA**
Pixels horizontal x vertical	640x480	640x480	2048x1536	1280x960	2048x1536	1280x960
Standard Image Sensor (right/left)	Color	SW	Color	SW	Color	SW
Standard lens right/aperture (F)	22/2.0	22/2.0			24-54/1.6-2.3	24-54/1.6-2.3
Standard lens left/aperture (F)						
Autom. Day/Night switching						
Sensitivity lux t=1/60 sec	1	0.1	1	0.1	1	0.1
Sensitivity lux t=1/1 sec	0.05	0.005	0.05	0.005	0.05	0.005
Max. Frame Rate VGA/Mega/3MEGA	30/-/-	30/-/-	30/10/4	30/10/4	30/10/4	30/10/4
RAM (MB)	**64**	**64**	**128**	**128**	**128**	**128**
Video ring buffer (MB)	32	32	64	64	64	64
CIF images approx.	2.000	2.000	4.000	4.000	4.000	4.000
VGA images approx.	1.250	1.250	2.500	2.500	2.500	2.500
Mega images approx.			800	800	800	800
Microphone/speaker	M / L	M / L	M / L	M / L	M / L	M / L
Concealed Cabling	X*	X*	X*	X*	X*	X*
Housing Color (wt: white, bl:black)	ws	ws	ws	ws	ws	ws
Software Features						
Digital zoom (2x, 4x, 8x), Panning/tilting	X	X	X	X	X	X
Motion-JPEG/MxPEG	X/X	X/X	X/X	X/X	X/X	X/X
Programmable exposure zones	X	X	X	X	X	X
Video Motion Detection	X	X	X	X	X	X
Time and Event Control	X	X	X	X	X	X
Time tables with holidays	X	X	X	X	X	X
Web features (FTP/e-mail with image)	X	X	X	X	X	X
Quad/Multiview in browser	X	X	X	X	X	X
Recording/Playback in browser	X	X	X	X	X	X
Logo generator, animations	X	X	X	X	X	X
Single image recording (pre-/post-alarm)	10	10	50	50	50	50
TB ring buffer (Win/Lin/Mac) via network	X	X	X	X	X	X
Video/Audio recording (continuous)	X	X	X	X	X	X
Video/Audio recording (event-driven)	X	X	X	X	X	X
Event-controlled frame rate incl. audio	X	X	X	X	X	X
Flexible event logic			X	X	X	X
Master/slave arming			X	X	X	X
Privacy Zones, several areas			X	X	X	X
Bidirectionalal audio (IP) from/to browser	X	X	X	X	X	X
Customized voice messages	X	X	X	X	X	X
Remote alert pop-ups (alarms via TCP/IP)	X	X	X	X	X	X
Alert notification on softphones (SIP)	X	X	X	X	X	X
ISDN telephony /ISDN modem (PPP)						
VoIP (SIP) / ISDN alarm call with Pin	SIP	SIP	SIP	SIP	SIP	SIP
Programming Interface/http-API	X	X	X	X	X	X
RS232 Data Logger/Terminal						

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Feature List D24/Q24

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MOBOTIX

	D24Mi-Basic-D22	D24M-IT-D22	D24M-IT-Night-D22	D24M-Sec	D24-Sec-Night	Q24M-Basis	Q24M-Sec
Hardware Features							
Mono/Dual System/Night switching	M	M	M	M	M	M	M
Outdoor weatherproof (IP65)	IP54	X	X	X	X	IP45	X
Resolution	**VGA**	**VGA**	**VGA**	**3MEGA**	**MEGA**	**VGA**	**3MEGA**
Pixels horizontal x vertical	640x480	640x480	640x480	2048x1536	1280x960	640x480	2048x1536
Standard Image Sensor (right/left)	Color	Color	SW	Color	SW	Color	Color
Standard lens right/aperture (F)	22/2.0	22/2.0	22/2.0			11/2.0	11/2.0
Standard lens left/aperture (F)						-	-
Autom. Day/Night switching						-	-
Sensitivity lux t=1/60 sec	1	1	0.1	1	0.1	1	1
Sensitivity lux t=1/1 sec	0.05	0.05	0.005	0.05	0.005	0.05	0.05
Max. Frame Rate VGA/Mega/3MEGA	16/-/-	30/-/-	30/-/-	30/30/20	30/30/-	16/-/-/-	30/30/20
RAM (MB)	**64**	**64**	**64**	**128**	**128**	**64**	**128**
Video ring buffer (MB)	2	32	32	64	64	2	64
CIF images approx.	100	2.000	2.000	4.000	4.000	100	4.000
VGA images approx.	50	1.250	1.250	2.500	2.500	50	2.500
Mega images approx.	150			800	800		800
Microphone/speaker	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Concealed Cabling	X	X	X	X	X	X	X
Housing Color (wt: white, bl:black)	sw	ws	ws	ws	ws	ws	ws
Software Features							
Digital zoom (2x, 4x, 8x), Panning/tilting		X	X	X	X		X
Motion-JPEG/MxPEG	X/X	X/X	X/X	X/X	X/X	X/X	X/X
Programmable exposure zones	X	X	X	X	X	X	X
Video Motion Detection	X	X	X	X	X	X	X
Time and Event Control	X	X	X	X	X	X	X
Time tables with holidays		X	X	X	X		X
Web features (FTP/e-mail with image)	X	X	X	X	X	X	X
Quad/Multiview in browser	X	X	X	X	X	X	X
Recording/Playback in browser		X	X	X	X		X
Logo generator, animations		X	X	X	X		X
Single image recording (pre-/post-alarm)	3	10	10	50	50	3	50
TB ring buffer (Win/Lin/Mac) via network		X	X	X	X		X
Video/Audio recording (continuous)		X	X	X	X		X
Video/Audio recording (event-driven)		X	X	X	X		X
Event-controlled frame rate incl. audio		X	X	X	X		X
Flexible event logic				X	X		X
Master/slave arming				X	X		X
Privacy Zones, several areas				X	X		X
Bidirectionalal audio (IP) from/to browser		X	X	X	X		X
Customized voice messages		X	X	X	X		X
Remote alert pop-ups (alarms via TCP/IP)		X	X	X	X		X
Alert notification on softphones (SIP)		X	X	X	X		X
ISDN telephony /ISDN modem (PPP)							
VoIP (SIP) / ISDN alarm call with Pin		SIP	SIP	SIP	SIP		SIP
Programming Interface/http-API		X	X	X	X		X
RS232 Data Logger/Terminal							

*IP65 only with outdoor wall mount **only with D/N models

	M12M-Web	M12D-IT-DNight-D43N43	M12D-IT-DNight-D43N43	M12D-Sec-D22D135	M12D-Sec-DNight-D43N43	M12D-Sec-DNight-D135N135	M12D-Sec-DNight-D22n22
Hardware Features							
Mono/Dual System/Night switching	Mono	D/N	D/N	D	D/N	D/N	D/N
Outdoor weatherproof (IP65)	X	X	X	X	X	X	X
Resolution	**3MEGA**	**VGA**	**VGA**	**3MEGA**	**3MEGA**	**3MEGA**	**3MEGA**
Pixels horizontal x vertical	2048x1536	640x480	640x480	2048x1536	2048x1536	2048x1536	2048x1536
Standard Image Sensor (right/left)	Color	Color/SW	Color/SW	Color/SW	Color/SW	Color/SW	Color/SW
Standard lens right/aperture (F)	43/2.0	43/2.0	135/2.5	22/2.0	43/2.0	135/2.5	22/2.0
Standard lens left/aperture (F)		43/2.0	135/2.5	135/2.5	43/2.0	135/2.5	22/2.0
Autom. Day/Night switching		X	X		X	X	X
Sensitivity lux t=1/60 sec	1	0.1	0.1	1	0.1	0.1	0.1
Sensitivity lux t=1/1 sec	0.05	0.005	0.005	0.05	0.005	0.005	0.005
Max. Frame Rate VGA/Mega/3MEGA	30/10/4	30/-/-	30/-/-	30/10/4	30/10/4	30/10/4	30/10/4
RAM (MB)	**64**	**64**	**64**	**128**	**128**	**64**	**128**
Video ring buffer (MB)	12	32	32	64	64	64	64
CIF images approx.	750	2.000	2.000	4.000	4.000	4.000	4.000
VGA images approx.	450	1.250	1.250	2.500	2.500	2.500	2.500
Mega images approx.	150			800	800	800	800
Microphone/speaker	-/L	M/L	M/L	M/L	M/L	M/L	M/L
Concealed Cabling	X	X	X	X	X	X	X
Housing Color (wt: white, bl:black)	ws	ws	ws	ws	ws	ws	ws
Software Features							
Digital zoom (2x, 4x, 8x), Panning/tilting	X	X	X	X	X	X	X
Motion-JPEG/MxPEG	X/X	X/X	X/X	X/X	X/X	X/X	X/X
Programmable exposure zones	X	X	X	X	X	X	X
Video Motion Detection	X	X	X	X	X	X	X
Time and Event Control	X	X	X	X	X	X	X
Time tables with holidays		X	X	X	X	X	X
Web features (FTP/e-mail with image)	X	X	X	X	X	X	X
Quad/Multiview in browser	X	X	X	X	X	X	X
Recording/Playback in browser	X	X	X	X	X	X	X
Logo generator, animations	X	X	X	X	X	X	X
Single image recording (pre-/post-alarm)	3	10	10	50	50	50	50
TB ring buffer (Win/Lin/Mac) via network		X	X	X	X	X	X
Video/Audio recording (continuous)		X	X	X	X	X	X
Video/Audio recording (event-driven)		X	X	X	X	X	X
Event-controlled frame rate incl. audio		X	X	X	X	X	X
Flexible event logic				X	X	X	X
Master/slave arming				X	X	X	X
Privacy Zones, several areas				X	X	X	X
Bidirectionalal audio (IP) from/to browser		X	X	X	X	X	X
Customized voice messages		X	X	X	X	X	X
Remote alert pop-ups (alarms via TCP/IP)		X	X	X	X	X	X
Alert notification on softphones (SIP)		X	X	X	X	X	X
ISDN telephony /ISDN modem (PPP)	X/X	X/X	X/X	X/X	X/X	X/X	X/X
VoIP (SIP) / ISDN alarm call with Pin	ISDN	SIP/ISDN	SIP/ISDN	SIP/ISDN	SIP/ISDN	SIP/ISDN	SIP/ISDN
Programming Interface/http-API	X	X	X	X	X	X	X
RS232 Data Logger/Terminal		X	X	X	X	X	X

The HiRes Video Company

MOBOTIX

Hardware Features	D12D-i-IT	D12D-i-Sec	D12D-i-Sec-180	D12M-CSVario	D12D-i-Sec-R8
Mono/Dual System/Night switching	D	D	D	M	D
Outdoor weatherproof (IP65)	X*	X*	X*	X*	X*
Resolution	**VGA**	**3MEGA**	**2,5MEGA**	**3MEGA**	**MEGA**
Pixels horizontal x vertical	640x480	2048x1536	2560x960	2048x1536	2048x1536
Standard Image Sensor (right/left)	Color/SW	Color/SW	Color	Color	Color
Standard lens right/aperture (F)			22/2.0	Stufenlos 24-54	22/2.0
Standard lens left/aperture (F)			22/2.0		22/2.0
Autom. Day/Night switching	X**	X**			X**
Sensitivity lux t=1/60 sec	1	1	1	1	1
Sensitivity lux t=1/1 sec	0.05	0.05	0.05	0.05	0.05
Max. Frame Rate VGA/Mega/3MEGA	30/-/-	30/10/4	30/10/4	30/10/4	30/10/4
RAM (MB)	**64**	**128**	**128**	**128**	**128**
Video ring buffer (MB)	32	64	64	64	64
CIF images approx.	2.000	4.000	4.000	2.000	4.000
VGA images approx.	1.250	2.500	2.500	1.250	2.500
Mega images approx.		800	800	800	800
Microphone/speaker	M/L	M/L	M/L	M/L	M/L
Concealed Cabling	X	X	X	X	X
Housing Color (wt: white, bl:black)	ws	ws	ws	ws	ws
Software Features					
Digital zoom (2x, 4x, 8x), Panning/tilting	X	X	X	X	X
Motion-JPEG/MxPEG	X/X	X/X	X/X	X/X	X/X
Programmable exposure zones	X	X	X	X	X
Video Motion Detection	X	X	X	X	X
Time and Event Control	X	X	X	X	X
Time tables with holidays	X	X	X	X	X
Web features (FTP/e-mail with image)	X	X	X	X	X
Quad/Multiview in browser	X	X	X	X	X
Recording/Playback in browser	X	X	X	X	X
Logo generator, animations	X	X	X	X	X
Single image recording (pre-/post-alarm)	10	50	50	50	50
TB ring buffer (Win/Lin/Mac) via network	X	X	X	X	X
Video/Audio recording (continuous)	X	X	X	X	X
Video/Audio recording (event-driven)	X	X	X	X	X
Event-controlled frame rate incl. audio	X	X	X	X	X
Flexible event logic		X	X	X	X
Master/slave arming		X	X	X	X
Privacy Zones, several areas		X	X	X	X
Bidirectionalal audio (IP) from/to browser	X	X	X	X	X
Customized voice messages	X	X	X	X	X
Remote alert pop-ups (alarms via TCP/IP)	X	X	X	X	X
Alert notification on softphones (SIP)	X	X	X	X	X
ISDN telephony /ISDN modem (PPP)	X/X	X/X	X/X	X/X	X/X
VoIP (SIP) / ISDN alarm call with Pin	SIP/ISDN	SIP/ISDN	SIP/ISDN	SIP/ISDN	SIP/ISDN
Programming Interface/http-API	X	X	X	X	X
RS232 Data Logger/Terminal	X	X	X	X	X

*IP65 only with outdoor wall mount **only with D/N models ***Interner DVR

The HiRes Video Company

MOBOTIX

Q24Mi-Basic

Q24M Indoor (IP54, -20°C to +60°C, -22°F to +122°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
640 x 480	2 MB	1 lux	PoE (IEEE 802.3af)	-	Ethernet 10/100

Variations

Protection class	Operational area	Image sensors	Lens options day
IP54	Indoor	Mono	D11, D22

Features

Resolution	**VGA** 640x480, CMOS sensor **color,** Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Image formats: 640x480, 320x240, 160x120 pixels, software panning/tilting via MxControlCenter/MxEasy
Lenses	**L11 Hemispheric** 11mm (360°Hx180°V; in 10m: 20,0m x 13,3 m) for hemispheric allround view L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)
Max. Frame Rate	**16 fps VGA • 16 fps CIF**
Interfaces	10/100 Ethernet (RJ45)
Sensors	Video motion detection, exposure windows
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video recording (16 fps VGA), video recording (events), video recording (scheduled); internal event- and time-controlled storage
Video Ring Buffer	**2 MB** internal image/event storage (approx. 100 images 320x240, high quality)
Optional Accessories	**MOBOTIX PoE adapter (MX-NPA-PoE-Set-DE)** - Power is only supplied using **PoE** (IEEE 802.3af)
Dimensions	Diameter: 160 x 50 mm
Standard Delivery	Housing made of high-resistance composites (PBT-PC), white, lens protection (transparent polycarbonate), manual, patch cable S/FTP 8-wire 50 cm
Warranty	12 months

Article Number	Details	EVP Euro
MX-Q24Mi-Basic-D11	Indoor-**Hemispheric Kamera**, incl. 1x Hemispheric 360° L11 day (color) (11mm)	**598**
MX-Q24Mi-Basic-D22	Indoor-**Hemispheric Kamera**, incl. 1x Super wide-angle L22 day (color) (22mm)	**598**

The HiRes Video Company

MOBOTIX

Q24M-Sec

Q24M In/Outdoor, weatherproof
(IP65, -30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Internal DVR	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MB	MicroSD, 32 GB	1 lux	PoE (IEEE 802.3af)	speaker / microphone	Ethernet 10/100, USB

Variations

Protection class	Operational area	Image sensors	Lens options day
IP65	Outdoor, Indoor	Mono	D11, D22

Features

Resolution
3MEGA, 2048x1536, CMOS sensor *color*
Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, camera software integrated panning/tilting

Lenses
L11 Hemispheric 11mm (360°Hx180°V; in 10m: 20,0m x 13,3 m) for hemispheric allround view,
L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)

Max. Frame Rate
20 fps 3MEGA • 30 fps MEGA • 30 fps VGA • 30 fps TV-PAL • 30 fps CIF

Interfaces
10/100 Ethernet (RJ45), USB

Sensors
Video motion detection, exposure windows, microphone

Features
Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons; IP Notify (send, receive) for external management systems, integrated VoIP from/to browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx. 4.000 images 320x240, high quality);

Internal DVR
MicroSD slot (camera internal recording up to 32 GB, capacity approx. 1,000,000 images at VGA resolution or 300,000 images in Megapixel resolution or 150,000 images in 3MEGA resolution, good quality)

Optional Accessories
MOBOTIX PoE adapter *(MX-NPA-PoE-Set-DE)* - Power is only supplied using *PoE* (IEEE 802.3af)

Dimensions
Diameter:160 x 50 mm

Standard Delivery
Housing made of high-resistance composites (PBT-PC), white, lens protection (transparent polycarbonate), manual, patch cable S/FTP 8-wire 50 cm, 4 GB MicroSD card

Warranty
12 months

Article Number	Details	EVP Euro
MX-Q24M-Sec-D11	Outdoor **Mono,** incl. 360° hemispheric lens **day (color)** (11mm),	798
MX-Q24M-Sec-D22	Outdoor **VGA Mono,** incl. 90° lens **day (color)** (22mm)	798
MX-OPT-WH	Outdoor Wall Mount (illustration p. 49)	98
MX-OPT-AP	On-Wall set (IP65) for **Q22/Q24 Sec** (illustration page 49)	98
MX-OPT-AP-10DEG	On-Wall set 10° (IP65) **Q22/Q24 Sec** for a sloped camera mounting (illustration page 49)	98
MX-OPT-IC	In-Ceiling set for **Q22/Q24 Sec** (illustration page 49)	98
MX-OPT-WH	Outdoor wall mount for **Q24 Sec** (illustration page 49)	98
MX-OPT-WHMH	Wall and pole mount set **Q24 Sec** (illustration page 49)	168

Camera List

MOBOTIX

D24Mi-Basic

Indoor (IP54) (-20°C to +50°C, -22°F to +122°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
640 x 480	2 MB	1 lux	PoE (IEEE 802.3af)	-	Ethernet 10/100

Variations

Protection class	Operational area	Image sensors	Standard lens	Additional lenses
IP54	Indoor	Mono	D22	D32, D43, D65, D135

available shortly

Features

Resolution	**VGA**, 640x480, CMOS sensor **color**, sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), image formats: 640x480, 320x240, 160x120 pixels
Lenses	Factory Standard: L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m). *Additional lenses (when placing the order available at 60 EUR per lens):* L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Max. Frame Rate	**16 fps VGA • 16 fps CIF**
Interfaces	10/100 Ethernet (RJ45)
Sensors	Video motion detection, exposure windows
Features	Web server, FTP client, e-Mail, Multiview, player, softbuttons, IP Notify (send/receive) for external management systems, MxPEG Live, snapshot recording (3 pre-, 3 post-alarm images)
Video Ring Buffer	**2 MB** internal image/event storage (approx. 100 images 320x240, high quality); event- and time-controlled storage: internal, via FTP on web server
Optional Accessories	**MOBOTIX PoE adapter** *(MX-NPA-PoE-Set-DE)* - Power is only supplied using **PoE** (IEEE 802.3af)
Dimensions	Ø 129 mm x 85,5 mm
Standard Delivery	Housing (IP54) made of fiberglass-reinforced composites (PBT-30GF), camera manual, patch cable S/FTP 8-wire 50 cm, Allen wrench
Warranty	12 Months

Article Number	Details	EVP **Euro**
MX-D24Mi-Basic-D22	Indoor **VGA Mono**, Factory Standard: incl. L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)	**448**

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MSRP (Manufacturer's suggested retail prices) • Prices ex-works Langmeil Germany (EXW) • excluding VAT and any other handling charges

Information subject to change without notice! • Product Portfolio 2009 • Date: 5/2009

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D24M-IT

Features					
Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
640 x 480	32 MB	1 lux	PoE (IEEE 802.3af)	-	Ethernet 10/100, USB

Variations					
Protection class	Operational area	Image sensors	Standard lens	Additional lenses	
IP65	Outdoor, Indoor	Mono	D22	D32, D43, D65, D135	

Outdoor weatherproof (IP65) (-30°C to +60°C, -22°F to +140°F)

available shortly

Features

Resolution	**VGA**, 640x480, CMOS sensor *color*, Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Image formats: 640x480, 320x240, 160x120 pixels **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	Factory Standard: L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m); *Additional lenses (when placing the order available at 60 EUR per lens):* L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Max. Frame Rate	**30 fps VGA • 30 fps TV-PAL • 30 fps CIF**
Interfaces	10/100 Ethernet (RJ45), USB master (for MX expansion modules, e. g. ExtIO)
Sensors	Video motion detection, exposure windows, microphone (ext.)
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive), for external management system, SIP video telephony, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Video Ring Buffer	**32 MB** internal image/event storage (approx. 2.000 images 320x240, high quality);
Internal DVR	**MicroSD slot** *(camera internal recording up to 32 GB, capacity approx. 1,000,000 images at VGA resolution, good quality)*
Optional Accessories	**MOBOTIX PoE adapter** *(MX-NPA-PoE-Set-DE)* - Power is only supplied using **PoE** (IEEE 802.3af) *Vandalism set* consists of stainless steel ring and reinforced dome, *On-Wall set* features concealed cabling and space for expansion modules, *In-Ceiling Set* for concealed installation in ceilings, *Outdoor wall mount* covers RJ45 wall outlets, with space for expansion modules, *Corner & Pole Mount*
Dimensions	Ø 160 mm x 85,5 mm
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP 8-wire 50 cm (double shielded), Allen wrench, 4 GB MicroSD card
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-D24M-IT-D22	In/Outdoor **VGA Mono**, Factory Standard: incl. L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)	**548**
	Further lens options on page 45	
MX-D24M-Vandal-ESMA	Vandalism set **matt D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-AP	On-Wall set (IP65) for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-AP-10DEG	On-Wall Set 10° (IP65) **D22/D24 IT/Sec** for slanted mounting of the camera (illustration page 48)	**98**
MX-OPT-IC	In-Ceiling set for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-WH	Outdoor wall mount for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-WHMH	Wall and pole mount set for **D22/D24 IT/Sec** (illustration page 48)	**168**

D24M-IT-Night

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
640 x 480	32 MB	0,1 lux	PoE (IEEE 802.3af)	-	Ethernet 10/100, USB

Variations

Protection class	Operational area	Image sensors	Standard lens	Additional lenses
IP65	Outdoor, Indoor	Mono	N22	N32, N43, N65, N135

available shortly

Features

Resolution	*VGA*, 640x480, CMOS sensor *black/white*, Sensitivity: 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 640x480, 320x240, 160x120 pixels *Zoom*: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	Factory Standard: L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m); *Additional lenses (when placing the order available at 60 EUR per lens):* L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m), available upon request for additional £50 each.
Max. Frame Rate	*30 fps VGA • 30 fps TV-PAL • 30 fps CIF*
Interfaces	10/100 Ethernet (RJ45) , USB master (for MX expansion modules, e. g. ExtIO)
Sensors	Video motion detection, exposure windows, microphone (ext.)
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive), for external management system, SIP video telephony, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Video Ring Buffer	*32 MB* internal image/event storage (approx. 2.000 images 320x240, high quality);
Internal DVR	*MicroSD slot (camera internal recording up to 32 GB, capacity approx. 1,000,000 images at VGA resolution, good quality)*
Optional Accessories	**MOBOTIX PoE adapter** *(MX-NPA-PoE-Set-DE) -* Power is only supplied using *PoE* (IEEE 802.3af) *Vandalism set* consists of stainless steel ring and reinforced dome, *On-Wall set* features concealed cabling and space for expansion modules, *In-Ceiling Set* for concealed installation in ceilings, *Outdoor wall mount* covers RJ45 wall outlets, with space for expansion modules, *Corner & Pole Mount*
Dimensions	Ø 160 mm x 85,5 mm
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP 8-wire 50 cm (double shielded), Allen wrench, 4 GB MicroSD card
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-D24M-IT-Night-N22	In/Outdoor **VGA Mono**, Factory Standard: incl. L22 Super wide-angle 22 mm (90Hx67°V; in 10m: 20,0m x 13,3 m) **Further lens options on page 45**	**548**
MX-D24M-Vandal-ESMA	Vandalism set **matt D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-AP	On-Wall set (IP65) for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-AP-10DEG	On-Wall Set 10° (IP65) **D22/D24 IT/Sec** for slanted mounting of the camera (illustration page 48)	**98**
MX-OPT-IC	In-Ceiling set for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-WH	Outdoor wall mount for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-WHMH	Wall and pole mount set for **D22/D24 IT/Sec** (illustration page 48)	**168**

D24M-Sec

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MB	1 lux	PoE (IEEE 802.3af)	-	Ethernet 10/100, USB

Variations

Protection class	Operational area	Image sensors	Standard lens	Lens options
IP65	Outdoor, Indoor	Mono	-	D22, D32, D43, D65, D135

available shortly

Features

Resolution	**3MEGA**, 2048x1536, CMOS sensor **color**, Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**All lens options available!** L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m); L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Max. Frame Rate	**20 fps 3MEGA • 30 fps MEGA • 30 fps VGA • 30 fps TV-PAL • 30 fps CIF**
Interfaces	10/100 Ethernet (RJ45) , USB master (for MX expansion modules, e. g. ExtIO)
Sensors	Video motion detection, exposure windows, microphone (ext.)
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, integrated VoIP from/to the browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible); **Secure Model Extras:** scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	**64 MB** internal image/event storage (approx. 4.000 images 320x240, high quality);
Internal DVR	**MicroSD slot** (camera internal recording up to 32 GB, capacity approx. 1,000,000 images at VGA resolution or 300,000 images in Megapixel resolution or 150,000 images in 3MEGA resolution, good quality)
Optional Accessories	**MOBOTIX PoE adapter** **(MX-NPA-PoE-Set-DE) -** Power is only supplied using **PoE** (IEEE 802.3af) **Vandalism set** consists of stainless steel ring and reinforced dome, **On-Wall set** features concealed cabling and space for expansion modules, **In-Ceiling Set** for concealed installation in ceilings, **Outdoor wall mount** covers RJ45 wall outlets, with space for expansion modules, **Corner & Pole Mount**
Dimensions	Ø 160 mm x 85,5 mm
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP white 8-wire 50 cm (double shielded), Allen wrench, 4 GB MicroSD card
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-D24M-Sec	In/Outdoor **3MEGA Mono, excluding lens 60€**	**688**
	Further lens options on page 45	
MX-D24M-Vandal-ESMA	Vandalism set **matt D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-AP	On-Wall set (IP65) for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-AP-10DEG	On-Wall Set 10° (IP65) **D22/D24 IT/Sec** for slanted mounting of the camera (illustration page 48)	**98**
MX-OPT-IC	In-Ceiling set for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-WH	Outdoor wall mount for **D22/D24 IT/Sec** (illustration page 48)	**98**
MX-OPT-WHMH	Wall and pole mount for **D22/D24 IT/Sec** (illustration page 48)	**168**

D24M-Sec-Night

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
1280 x 960	64 MB	0,1 lux	PoE (IEEE 802.3af)	-	Ethernet 10/100, USB

Variations

Protection class	Operational area	Image sensors	Standard lens	Lens options
IP65	Outdoor, Indoor	Mono	-	N22, N32,N43, N65, N135

available shortly

Features

Resolution	**MEGA**, 1280x960, CMOS sensor **black/white** (IR-sensitive), Sensitivity: 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**All lens options available!** L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m); L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Max. Frame Rate	**30 fps MEGA • 30 fps VGA • 30 fps TV-PAL • 30 fps CIF**
Interfaces	10/100 Ethernet (RJ45), USB master (for MX expansion modules, e. g. ExtIO)
Sensors	Video motion detection, exposure windows, microphone (ext.)
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, integrated VoIP from/to the browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible); **Secure Model Extras:** scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	**64 MB** internal image/event storage (approx. 4.000 images 320x240, high quality);
Internal DVR	**Up to 16 GB (MicroSD slot)** SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality),
Optional Accessories	**MOBOTIX PoE adapter (MX-NPA-PoE-Set-DE) -** Power is only supplied using **PoE** (IEEE 802.3af) **Vandalism set** consists of stainless steel ring and reinforced dome, **On-Wall set** features concealed cabling and space for extension modules, **In-Ceiling Set** for concealed installation in ceilings, **Outdoor wall mount** covers RJ45 wall outlets, with space for expansion modules, **Corner & Pole Mount**
Dimensions	Ø 160 mm x 85,5 mm
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP 8-wire 50 cm (double shielded), Allen wrench, 4 GB MicroSD card
Warranty	12 months

Article Number	Details	EVP Euro
MX-D24M-Sec-Night	In/Outdoor **MEGA Mono Night, excluding lens 60€**	688
	Further lens options on page 45	
MX-D24M-Vandal-ESMA	Vandalism set **matt D22/D24 IT/Sec** (illustration page 48)	98
MX-OPT-AP	On-Wall set (IP65) for **D22/D24 IT/Sec** (illustration page 48)	98
MX-OPT-AP-10DEG	On-Wall Set 10° (IP65) **D22/D24 IT/Sec** for slanted mounting of the camera (illustration page 48)	98
MX-OPT-IC	In-Ceiling set for **D22/D24 IT/Sec** (illustration page 48)	98
MX-OPT-WH	Outdoor wall mount for **D22/D24 IT/Sec** (illustration page 48)	98
MX-OPT-WHMH	Wall and pole mount for **D22D24 IT/Sec** (illustration page 48)	168

D12D-IT

D12 **without** Outdoor wall mount (**IP54**, -30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
640 x 480	32 MByte	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options Day	Lens options Night
IP65 (with wall mount)	IP54	X	X	D22, D32, D43, D65, D135	N22, N32,N43, N65, N135

D12 **with** Outdoor wall mount weatherproof (**IP65**, -30°C to +60°C, -22°F to +140°F)

Features

Resolution
2 x VGA, 640x480, CMOS sensor **color,** and CMOS sensor **black/white** (IR-sensitive),
sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
sensitivity (B/W): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec),
Image formats: 640x480, 320x240, 160x120 pixels
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
All lens options available!
L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m),
L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m),
L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m),
L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m),
L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Camera modules and lenses can be freely and independently positioned

Max. Frame Rate
30 fps VGA • 30 fps CIF

Interfaces
10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)

Sensors
Video motion detection, exposure windows, PIR motion detector, microphone

Features
Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)

Video Ring Buffer
32 MB internal image/event storage (approx. 2.000 images 320x240, high quality)

Internal DVR
Internal DVR 16 GB SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)

Optional Accessories

External power supply **(MX-NPA-Set)** is only required if power is not supplied using **PoE**

Outdoor wall mount (fiberglass-reinforced composites PBT) covers up RJ45 outlet, IP65, stainless steel mounting supply, covers and dowels, polyurethane sealing for mounting to wall, ample room inside for extras (WiFi, etc.)

Dimensions
Diameter: 202 x 108 mm; Wall mount and weather protection (Outdoor models): 295 x 160 x 270 mm

Standard Delivery

Housing made of high-resistance composites (PBT-PC), white, shockproof polycarbonate dome (1 transparent) manual, patch cable S/FTP yellow 8-wire 50 cm (double-shielded)

Warranty
12 months

Article Number	Details	EVP **Euro**
MX-D12Di-IT	Indoor **VGA Dual**, **excl. camera modules, 150€ each**	698
MX-D12D-OPT-DCS	Tinted PC dome	29
MX-D12D-OPT-DCT	Transparent PC dome	29
MX-WH-Dome	Wall Mount (illustration p. 51)	148
MX-MH-Dome-ESWS	Pole/Corner Mount for D12 connected with Wall mount (illustration p. 51)	98
MX-D12D-OPT-WHMH-Set	Pole Mount (MX-MH-Dome-ESWS) and Wall mount (MX-WH-Dome) Set	198
MX-D12-Vandal-ESMA	Vandalism set matt (illustration p. 51)	148

D12D-Sec

D12 without Outdoor wall mount (IP54, -30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MByte	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker.	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options Day	Lens options Night
IP65 (with wall mount)	IP54	X	X	D22, D32, D43, D65, D135	N22, N32, N43, N65, N135

D12 with Outdoor wall mount weatherproof (IP65, -30°C to +60°C, -22°F to +140°F)

Features

Resolution
3MEGA, 2048x1536, CMOS sensor *color, MEGA,* 1280x960, CMOS sensor *B/W (IR-sensitive)*,
Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec),
Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
All lens options available!
L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m),
L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m),
L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m),
L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m),
L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Camera modules and lenses can be freely and independently positioned

Max. Frame Rate
30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA

Interfaces
10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)

Sensors
Video motion detection, exposure windows, PIR motion detector, microphone

Features
Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx. 4.000 images 320x240, high quality)

Internal DVR
Internal DVR 16 GB SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)

Optional Accessories
External power supply (MX-NPA-Set) is only required if power is not supplied using *PoE*

Outdoor wall mount (fiberglass-reinforced composites PBT) covers up RJ45 outlet, IP65, stainless steel mounting supply, covers and dowels, polyurethane sealing for mounting to wall, ample room inside for extras (WiFi, etc.)

Dimensions
Diameter: 202 x 108 mm; Wall mount and weather protection (Outdoor models): 295 x 160 x 270 mm

Standard Delivery
Housing made of high-resistance composites (PBT-PC), white, shockproof polycarbonate dome (1 transparent) manual, patch cable S/FTP yellow 8-wire 50 cm (double-shielded)

Warranty
12 months

Article Number	Details	EVP **Euro**
MX-D12Di-Sec	Indoor **3MEGA Dual, excl. camera modules, 150€ each**	**948**
MX-D12-Module-D22 or N22	Camera module Day or **Night** incl. L22 Super wide-angle lens	**150 each**
MX-D12-Module-D32 or N32	Camera module Day or **Night** incl. L32 Wide-angle lens	**150 each**
MX-D12-Module-D43 or N43	Camera module Day or **Night** incl. L43 Wide-angle lens	**150 each**
MX-D12-Module-D65 or N65	Camera module Day or **Night** incl. L65 Tele lens	**150 each**
MX-D12-Module-D135 or N135	Camera module Day or **Night** incl. L135 Tele lens	**150 each**
MX-D12-Vandal-ESMA	Vandalism set matt (illustration p. 51)	**148**

D12D-Sec-180°

D12 **without** Outdoor wall mount (**IP54**, -30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2560 x 960	64 MByte	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker.	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options Day	Lens options Night
IP65 (with wall mount)	IP54	X	X	2 x D22	2 x N22

Optional Accessories: Outdoor wall mount, weatherproof (**IP65**, -30°C to +60°C, -22°F to +140°F)

Features

Resolution
2,5 MEGA 1280x960, CMOS sensor *color,* or *2,5 MEGA* 1280x960, CMOS sensor *B/W (IR-sensitive)*, Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 2560x960, 1280x480, 640x240 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
2x L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m) for panorama
Camera modules and lenses are configured at the factory (panorama function)

Max. Frame Rate
15 fps VGA • 30 fps CIF • 5 fps MEGA, each in double image mode (panorama function)

Interfaces
10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)

Sensors
Video motion detection, exposure windows, PIR motion detector, microphone

Features
Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx. 2.000 panorama images 640x240, high quality)

Internal DVR
Internal DVR 16 GB SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)

Optional Accessories
External power supply *(MX-NPA-Set)* is only required if power is not supplied using *PoE*

Outdoor wall mount (fiberglass-reinforced composites PBT) covers up RJ45 outlet, IP65, stainless steel mounting supply, covers and dowels, polyurethane sealing for mounting to wall, ample room inside for extras (WiFi, etc.)

Dimensions
Diameter: 202 x 108 mm; Wall mount and weather protection (Outdoor models): 295 x 160 x 270 mm

Standard Delivery
Housing made of high-resistance composites (PBT-PC), white, erhöhte shockproof polycarbonate dome (1 transparent) manual, patch cable S/FTP yellow 8-wire 50 cm (double-shielded)

Warranty
12 months

Article Number	Details	EVP Euro
MX-D12Di-Sec-180	Indoor **2,5 MEGA Panorama**, incl. 2 x Super wide-angle **day (color)** (22mm)	1248
MX-D12Di-Sec-Night-180	Indoor **2,5 MEGA Panorama**, incl. 2 x Super wide-angle **night (B/W)** (22mm)	1248
MX-WH-Dome	Wall Mount (illustration p. 51)	148
MX-MH-Dome-ESWS	Pole/Corner Mount for D12 connected with Wall Mount (illustration p. 51)	98
MX-D12D-OPT-WHMH-Set	Pole Mount (MX-MH-Dome-ESWS) and Wall Mount (MX-WH-Dome) Set	198

D12M-Sec-CSVario

D12 **without** Outdoor wall mount (**IP54**, -30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MByte	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options Day	Lens options Night
IP65 (with wall mount)	IP54	X	-	CSVario-24-54	CSVario-24-54

Features

Resolution
3MEGA, 2048x1536, CMOS sensor **color, MEGA** 1280x960, CMOS sensor **B/W (IR-sensitive)**,
Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec),
Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
CS-Mount Vario; f = 4 bis 12 mm; F 1.2

Max. Frame Rate
30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA

Interfaces
10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)

Sensors
Video motion detection, exposure windows, PIR motion detector, microphone

Features
Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx. 4.000 images 320x240, high quality)

Internal DVR
Internal DVR 16 GB SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)

Optional Accessories
External power supply (MX-NPA-Set) is only required if power is not supplied using **PoE**

Outdoor wall mount (fiberglass-reinforced composites PBT) covers up RJ45 outlet, IP65, stainless steel mounting supply, covers and dowels, polyurethane sealing for mounting to wall, ample room inside for extras (WiFi, etc.)

Dimensions
Diameter: 202 x 108 mm; Wall mount and weather protection (Outdoor models): 295 x 160 x 270 mm

Standard Delivery
Housing made of high-resistance composites (PBT-PC), white, erhöhte shockproof polycarbonate dome (1 transparent) manual, patch cable S/FTP yellow 8-wire 50 cm (double-shielded)

Warranty
12 months

Article Number	Details	EVP **Euro**
MX-D12Mi-Sec-CSVario	In/Outdoor **3MEGA Mono**, incl. CS Mount Vario **day (color)** (24 to 54 mm)	**as of Q2/2009**
MX-D12Mi-Sec-Night-CSVario	In/Outdoor **MEGA Mono Night**, incl. CS Mount Vario **night (B/W)** (24 to 54 mm)	**as of Q2/2009**
MX-WH-Dome	Wall Mount (illustration p. 51)	**148**
MX-MH-Dome-ESWS	Pole/Corner Mount for D12 connected with Wall Mount (illustration p. 51)	**98**
MX-D12D-OPT-WHMH-Set	Pole Mount (MX-MH-Dome-ESWS) and Wall Mount (MX-WH-Dome) Set	**198**

The HiRes Video Company

MOBOTIX

D12Di-Sec-R16 — Internal Flash Recording

Features

Resolution max.	Image Storage	Internes Flash Recording	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MB	16 GB	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker	RS232, I/O, Audio, ISDN

D12 without Outdoor wall mount (IP54, -30°C to +60°C, -22°F to +140°F)), with Outdoor wall mount, weatherproof (IP65, -30°C to +60°C, -22°F to +140°F)

Variations

Outdoor	Indoor	Mono	Dual	Lens options day	Lens options night
IP65 (incl wall mount)	IP54 (excl. wall mount)	X	X	D22, D32, D43, D65, D135	N22, N32, N43, N65, N135

Features

Resolution
MEGA, 1280x960, CMOS sensor *color, MEGA* 1280x960, CMOS sensor *B/W (IR-sensitive)*,
Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec),
Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
All lens options available!
L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m),
L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m),
L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m),
L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m),
L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Camera modules and lenses can be freely and independently positioned

Max. Frame Rate
30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA

Interfaces
10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)

Sensors
Video motion detection, exposure windows, PIR motion detector, microphone

Features
Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx.4.000 images 320x240, high quality);

Internal DVR
16 GB internal Flash Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)

Optional Accessories
External power supply (MX-NPA-Set) is only required if power is not supplied using *PoE*

Outdoor wall mount (fiberglass-reinforced composites PBT) covers up RJ45 outlet, IP65, stainless steel mounting supply, covers and dowels, polyurethane sealing for mounting to wall, ample room inside for extras (WiFi, etc.)

Dimensions
Diameter: 202 x 108 mm; Wall mount and weather protection (Outdoor models): 295 x 160 x 270 mm

Standard Delivery
Housing made of high-resistance composites (PBT-PC), white, shockproof polycarbonate dome (1 transparent) manual, patch cable S/FTP yellow 8-wire 50 cm (double-shielded)

Warranty
12 months

Article Number	Details	EVP Euro
MX-D12Di-Sec-R16	Indoor **MEGA Dual Day/Night Internal Flash Recording, excl. camera modules, 150€ each**	1198
MX-D12-Module-D22 or N22	Camera module Day or **Night** incl. L22 Super wide-angle lens	150 each
MX-WH-Dome	Wall Mount (illustration p. 51)	148
MX-D12D-OPT-WHMH-Set	Pole Mount (MX-MH-Dome-ESWS) and Wall Mount (MX-WH-Dome) Set	198
MX-D12D-Vandal-ESMA	Vandalism set matt (illustration p. 50)	148

D12Di-Sec-R16-180°   Internal Flash Recording

D12 without Outdoor wall mount (IP54, -30°C to +60°C, -22°F to +140°F), with Outdoor wall mount, weatherproof (IP65, -30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Internes Flash Recording	Sensitivity	Power Supply	Internal audio	Interfaces
2560 x 960	64 MB	16 GB	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options day	Lens options night
IP65 (incl wall mount)	IP54 (excl. wall mount)	X	X	2 x D22	2 x N22

Features

Resolution	*2,5 MEGA* 1280x960, CMOS sensor *color,* or *MEGA* 1280x960, CMOS sensor *B/W (IR-sensitive)*, Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 2560x960, 1280x480, 640x240 pixels, custom formats (e.g. 1000 x 400) *Zoom*: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	*2x* L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m) for panorama *Camera modules and lenses are configured at the factory (panorama function)*
Max. Frame Rate	*15 fps VGA • 30 fps CIF • 5 fps MEGA,* each in double image mode (panorama function)
Interfaces	10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)
Sensors	Video motion detection, exposure windows, PIR motion detector, microphone
Features	Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible) *Secure Model Extras*: scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	*64 MB* internal image/event storage (approx.4.000 images 320x240, high quality);
Internal DVR	*16 GB* internal Flash Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)
Optional Accessories	*External power supply (MX-NPA-Set)* is only required if power is not supplied using *PoE* *Outdoor wall mount* (fiberglass-reinforced composites PBT) covers up RJ45 outlet, IP65, stainless steel mounting supply, covers and dowels, polyurethane sealing for mounting to wall, ample room inside for extras (WiFi, etc.)
Dimensions	Diameter: 202 x 108 mm; Wall mount and weather protection (Outdoor models): 295 x 160 x 270 mm
Standard Delivery	Housing made of high-resistance composites (PBT-PC), white, shockproof polycarbonate dome (1 transparent) manual, patch cable S/FTP yellow 8-wire 50 cm (double-shielded)
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-D12Di-Sec-180-R16	Indoor **MEGA Internal Flash Recording Panorama**, incl. 2 x Super wide-angle **day (color)** (22 mm)	**1498**
MX-D12Di-Sec-Night-180-R16	Indoor **MEGA Internal Flash Recording Panorama**, incl. 2 x Super wide-angle **night (B/W)** (22 mm)	**1498**
MX-D12D-OPT-WHMH-Set	Pole Mount (MX-MH-Dome-ESWS) and Wall Mount (MX-WH-Dome) Set	**198**

The HiRes Video Company

MOBOTIX

M22M-IT

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F)

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
640 x 480	32 MByte	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker	USB

Variations

Outdoor	Indoor	Mono	Dual	Lens options
IP65	IP54	X	-	D22, D32, D43, D65, D135

Features

Resolution	*VGA*, 640x480, CMOS sensor *color*, or CMOS sensor *black/white* (IR-sensitive), Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Sensitivity (B/W): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 640x480, 320x240, 160x120 pixels *Zoom*: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	Factory Standard: L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m); *All lens options available!* L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m), available upon request for additional 60€ each.
Max. Frame Rate	*30 fps VGA • 30 fps CIF*
Interfaces	10/100 Ethernet (RJ45) , USB master (for MX expansion modules)
Sensors	Video motion detection, exposure windows, microphone
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive), for external management system, SIP video telephony, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Video Ring Buffer	*32 MB* internal image/event storage (approx. 2.000 images 320x240, high quality);
Optional Accessories	**External power supply *(MX-NPA-Set)*** is only required if power is not supplied using *PoE*
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, Polycarbonate lens cover, spare lens cover, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench, SecureFlex mount with concealed cabling covers RJ45 wall outlets, stainless steel mounting set
Warranty	12 months

Article Number	Details	EVP Euro
MX-M22M-IT-D22	In/Outdoor **VGA Mono**, Factory standard incl. L22 Super Wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)	**598**
MX-M22M-IT-Night-N22	In/Outdoor **VGA Mono night camera**, incl. L22 Super wide-angle lens 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)	**598**
	Further lens options on page 45	
MX-M22M-OPT-LCSK	Lens cover composites for **M22M-IT/Sec** (see fig. p. 52)	**20**
MX-M22M-OPT-LCSG	Lens cover with glass pane for **M22M-IT/Sec** (see fig. p. 52)	**30**
MX-EXTIO	Extension for connecting and controlling extrend devies (for further information see page 44)	**198**

The HiRes Video Company

MOBOTIX

M22M-Sec

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MByte	1 lux	PoE/NPA	Micro/Speaker	USB

Variations

Outdoor	Indoor	Mono	Dual	Lens options
IP65	IP54	X	-	D22, D32, D43, D65, D135

Features

Resolution
3MEGA, 2048x1536 CMOS sensor *color*,
Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
All lens options available!
L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m);
L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m);
L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m),
L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m),
L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)

Max. Frame Rate
30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA

Interfaces
10/100 Ethernet (RJ45) , USB master (for MX expansion modules)

Sensors
Video motion detection, exposure windows, microphone

Features
Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, integrated VoIP from/to the browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx.4.000 images 320x240, high quality)

Optional Accessories

External power supply *(MX-NPA-Set)* is only required if power is not supplied using *PoE*

Dimensions
with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT)
with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)

Standard Delivery

Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, Polycarbonate lens cover, spare lens cover, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench, SecureFlex mount with concealed cabling covers RJ45 wall outlets, stainless steel mounting set

Warranty
12 months

Article Number	Details	EVP Euro
MX-M22M-Sec	In/Outdoor **3MEGA Mono, excluding lens 60€**	**738**
MX-OPT14-L22	L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)	**60**
MX-OPT14-L32	L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m)	**60**
MX-OPT14-L43	L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m)	**60**
MX-OPT14-L65	L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m)	**60**
MX-OPT14-L135	L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)	**60**
MX-EXTIO	Extension for connecting and controlling extrend devies (for further information see page 44)	**198**

The HiRes Video Company

MOBOTIX

M22M-Sec-Night

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
1280 x 960	64 MByte	0,1 lux	PoE/NPA	Micro/Speaker	USB

Variations

Outdoor	Indoor	Mono	Dual	Lens options
IP65	IP54	X	-	N22, N32, 43, N65, N135

Features

Resolution	*MEGA*, 1280x960, CMOS sensor *black/white* (IR-sensitive), Sensitivity: 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400), *Zoom*: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	*All lens options available!* L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m); L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m); L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)
Max. Frame Rate	*30 fps VGA • 30 fps CIF • 14 fps MEGA*
Interfaces	10/100 Ethernet (RJ45), USB master (for MX expansion modules)
Sensors	Video motion detection, exposure windows, microphone
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, integrated VoIP from/to the browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible) *Secure Model Extras:* scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	*64 MB* internal image/event storage (approx.4.000 images 320x240, high quality)
Optional Accessories	*External power supply (MX-NPA-Set)* is only required if power is not supplied using *PoE*
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, Polycarbonate lens cover, spare lens cover, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench, SecureFlex mount with concealed cabling covers RJ45 wall outlets, stainless steel mounting set
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-M22M-Sec-Night	In/Outdoor **MEGA Mono Night, excluding lens 60€**	**738**
MX-OPT14-L22	L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)	**60**
MX-OPT14-L32	L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m)	**60**
MX-OPT14-L43	L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m)	**60**
MX-OPT14-L65	L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m)	**60**
MX-OPT14-L135	L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)	**60**
MX-EXTIO	Extension for connecting and controlling extrend devies (for further information see page 44)	**198**

M22M-Sec-CSVario

**Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))**

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MByte	1 lux	PoE/NPA	Micro/Speaker	USB

Variations

Outdoor	Indoor	Mono	Dual	Lens
IP65	IP54	X	-	CSVario-24-54

Features

Resolution	**3MEGA**, 2048x1536, CMOS sensor **color**, Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**CS-Mount Vario-24-54**; f = 4.5 to 10 mm (equiv. ~24 to 54 mm on 35mm systems); F 1.6 to 2.3
Max. Frame Rate	**30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA**
Interfaces	10/100 Ethernet (RJ45) , USB master (for MX expansion modules)
Sensors	Video motion detection, exposure windows, microphone
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, integrated VoIP from/to the browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible) **Secure Model Extras:** scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	**64 MB** internal image/event storage (approx.4.000 images 320x240, high quality)
Optional Accessories	**External power supply (MX-NPA-Set)** is only required if power is not supplied using **PoE**
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, Polycarbonate lens cover, spare lens cover, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench, SecureFlex mount with concealed cabling covers RJ45 wall outlets, stainless steel mounting set
Warranty	12 months

Article Number	Details	EVP Euro
MX-M22M-Sec-CSVario	In/Outdoor **MEGA Mono**, incl. CS Mount Vario day (color) (24 to 54 mm)	998
MX-M22M-OPT-LCSGL	Extended lens cover with glass pane **for M22M-CSVario**	30
MX-EXTIO	Extension for connecting and controlling extrend devies (for further information see page 44)	198

M22M-Sec-Night-CSVario

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features					
Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
1280 x 960	64 MByte	0,1 lux	PoE/NPA	Micro/Speaker	USB

Variations				
Outdoor	Indoor	Mono	Dual	Lens
IP65	IP54	X	-	CSVario-24-54

Features

Resolution	**MEGA**, 1280x960, CMOS sensor **black/white** (IR-sensitive), Sensitivity: 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**CS-Mount Vario-24-54**; f = 4.5 to 10 mm (equiv. ~24 to 54 mm on 35mm systems); F 1.6 to 2.3
Max. Frame Rate	**30 fps VGA • 30 fps CIF • 14 fps MEGA**
Interfaces	10/100 Ethernet (RJ45) , USB master (for MX expansion modules)
Sensors	Video motion detection, exposure windows, microphone
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, integrated VoIP from/to the browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible) **Secure Model Extras:** scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	**64 MB** internal image/event storage (approx.4.000 images 320x240, high quality)
Optional Accessories	**External power supply (MX-NPA-Set)** is only required if power is not supplied using **PoE**
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, Polycarbonate lens cover, spare lens cover, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench, SecureFlex mount with concealed cabling covers RJ45 wall outlets, stainless steel mounting set
Warranty	12 months

Article Number	Details	EVP Euro
MX-M22M-Sec-Night-CSVario	In/Outdoor **MEGA Mono Nacht** incl. CS Mount Vario **Night** (**B/W**) (24 to 54 mm)	998
MX-M22M-OPT-LCSGL	Extended lens cover with glass pane **for M22M-CSVario**	30
MX-EXTIO	Extension for connecting and controlling extrend devies (for further information see page 44)	198

The HiRes Video Company

MOBOTIX

M22M-Sec-R16 — Internal Flash Recording

Outdoor wetterfest (IP65) (-30°C bis +60°C)

Features

Resolution max.	Image Storage	Internal Flash Recording	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MB	16 GB	1 lux, 0,1 lux (Night)	PoE/NPA	Micro/Speaker	USB

Variations

Outdoor	Indoor	Mono	Dual	Objektivoptionen
IP65	IP54	X	-	D22, D32, D43, D65, D135, N22, N32, N43, N65, N135, CSVario-24-54

Features

Resolution	**3MEGA**, 2048x1536, CMOS sensor **color**, Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**All lens options available!** L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m); L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m); L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m), **CS-Mount Vario-24-54**; f = 4.5 to 10 mm (equiv. ~24 to 54 mm on 35mm systems); F 1.6 to 2.3
Max. Frame Rate	**30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA**
Interfaces	10/100 Ethernet (RJ45) , USB master (for MX expansion modules)
Sensors	Video motion detection, exposure windows, microphone
Features	Web server, FTP client, e-Mail, Multiview, recorder/player, softbuttons, IP Notify (send, receive) for external management systems, integrated VoIP from/to the browser, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled), event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac), images are directly accessible, no FTP required (although possible); **Secure Model Extras:** scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	**64 MB** internal image/event storage (approx.4.000 images 320x240, high quality)
Internal DVR	**16 GB** internal Flash Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)
Optional Accessories	**External power supply (MX-NPA-Set)** is only required if power is not supplied using **PoE**
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, Polycarbonate lens cover, spare lens cover, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench, SecureFlex mount with concealed cabling covers RJ45 wall outlets, stainless steel mounting set
Warranty	12 months

Article Number	Details	EVP Euro
MX-M22M-SEC-R16	In/Outdoor-**MEGA-Mono Internal Flash Recording**, **excl. lens 60€**	**938**
MX-M22M-SEC-CS-R16	In/Outdoor-**MEGA-Mono**, incl. CSVario (24-54 mm)	**1198**
MX-OPT14-L22	L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m)	**60**
MX-OPT14-L32	L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m)	**60**
MX-OPT14-L43	L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m)	**60**
MX-OPT14-L65	L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m)	**60**
MX-OPT14-L135	L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m)	**198**
MX-EXTIO	Extension for connecting and controlling extrend devies (for further information see page 44)	**198**

The HiRes Video Company

MOBOTIX

M12M-Web

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	12 MByte	1 lux	PoE/NPA	Speaker	ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options day
IP65	IP54	X	-	D43

Features

Resolution	**3MEGA**, 2048x1536, CMOS sensor **color**, Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Lenses	**L43 wide-angle** (45° x 35°); f = 8 mm (equiv. ~43 mm on 35mm systems), in 10 m: ca. 8,2 m x 6,1 m
Max. Frame Rate	**30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA**
Interfaces	10/100 Ethernet (RJ45), ISDN-S0 (RJ45)
Sensors	Video motion detection, exposure windows, PIR motion detector
Features	Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, PDA web pages, MxPEG Live, **logo generator, software zoom (2x, 4x)**, snapshot recording (3 pre-, 3 post-alarm images), Software installation is not necessary; event and/or scheduled recording: internal or via FTP on web server or on network connected PC (Windows/Linux NFS/Mac)
Video Ring Buffer	**12 MB** internal image/event storage (~750 images 320x240, high quality)
Optional Accessories	**External power supply (MX-NPA-Set)** is only required if power is not supplied using **PoE**
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench **SecureFlex**: robust wall/ceiling mount with turn/tilt mount and **concealed** cabling, covers RJ45 wall outlets ==> patented, **tamper-proof** concealed cabling
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-M12M-Web-D43	In/Outdoor-**MEGA-Mono**, incl. wide-angle day (color) (43mm)	**798**
MX-WH-SecureFlex	SecureFlex: shock-resistant wall/ceiling mount (illustration p. 50)	**48**
MX-MH-SecureFlex-ESWS	SecureFlex Pole Mount for M12 (illustration p. 50)	**78**

The HiRes Video Company

MOBOTIX

M12D-IT-DNight

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
640 x 480	32 MByte	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options day	Lens options night
IP65	IP54	-	X	D43, D135	N43, N135

Features

Resolution	**2 x VGA**, 640x480, CMOS sensor *color*, and CMOS sensor *black/white* (IR-sensitive), Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Sensitivity (B/W): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 640x480, 320x240, 160x120 pixels *Zoom*: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**L43 wide-angle** (45° x 35°); f = 8 mm (equiv. ~43 mm on 35mm systems), in 10 m: ca. 8,2 m x 6,1 m **L135 tele** (15° x 11°); f = 25 mm (equiv. ~135 mm on 35mm systems); in 10 m: approx. 2,6 m x 1,9 m **DNight**: automatic switching between color and BW sensors depending on illumination; no moving parts, *maintenance-free*
Max. Frame Rate	**30 fps VGA • 30 fps CIF**
Interfaces	10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)
Sensors	Video motion detection, exposure windows, PIR motion detector, microphone
Features	Web server, FTP client, e-Mail, ISDN PPP server/client, MultiView, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive), for external management systems, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Video Ring Buffer	**32 MB** internal image/event storage (approx. 2.000 images 320x240, high quality)
Internal DVR	**Internal DVR 16 GB** SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)
Optional Accessories	**External power supply** *(MX-NPA-Set)* is only required if power is not supplied using *PoE*
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench *SecureFlex*: robust wall/ceiling mount with turn/tilt mount and **concealed** cabling, covers RJ45 wall outlets ==> patented, *tamper-proof* concealed cabling
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-M12D-IT-DNight-D43N43	In/Outdoor **VGA Dual**, incl. wide-angle **day (color)** (43mm) and wide-angle **night (B/W)** (43mm) **DNight**: automatic Day/Night switching depending on illumination	**1098**
MX-M12D-IT-DNight-D135N135	In/Outdoor **VGA Dual**, incl. tele **day (color)** (135mm) and tele **night (B/W)** (135mm) **DNight**: automatic Day/Night switching depending on illumination	**1098**
MX-WH-SecureFlex	SecureFlex: shock-resistant wall/ceiling mount (illustration p. 50)	**48**
MX-MH-SecureFlex-ESWS	SecureFlex Pole Mount for M12 (illustration p. 50)	**78**

M12D-Sec

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MByte	0,1 lux (Night)	PoE/NPA	Micro/Speaker	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options day	Lens options night
IP65	IP54	-	X	D22, D43, D135	-

Features

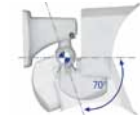|	
Resolution	**2 x 3MEGA**, 2048x1536, CMOS sensor *color*, Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**L22 super wide-angle** (90° x 67°); f = 4 mm (equiv. ~22 mm on 35mm systems); in 10m: 20,0m x 13,3 m **L43 wide-angle** (45° x 35°); f = 8 mm (equiv. ~43 mm on 35mm systems), in 10 m: ca. 8,3 m x 6,2 m **L135 tele** (15° x 11°); f = 25 mm (equiv. ~135 mm on 35mm systems); in 10 m: ca. 2,7 m x 2,0 m
Max. Frame Rate	**30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA**
Interfaces	10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)
Sensors	Video motion detection, exposure windows, PIR motion detector, microphone
Features	Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), Video audio recording (events), Video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible) **Secure Model Extras**: scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	**64 MB** internal image/event storage (approx. 4.000 images 320x240, high quality)
Internal DVR	**Internal DVR 16 GB** SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)
Optional Accessories	**External power supply (MX-NPA-Set)** is only required if power is not supplied using **PoE**
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench **SecureFlex**: robust wall/ceiling mount with turn/tilt mount and **concealed** cabling, covers RJ45 wall outlets ==> patented, *tamper-proof* concealed cabling
Warranty	12 months

Article Number	Details	EVP Euro
MX-M12D-Sec-D22D135	Outdoor **MEGA Dual**, incl. super wide-angle day (22mm) and tele day (135mm)	**1248**
MX-M12D-Sec-D43D135	Outdoor **MEGA Dual**, incl. super wide-angle day (43mm) and tele day (135mm)	**1248**
MX-M12D-Sec-D22D43	Outdoor **MEGA Dual**, incl. super wide-angle day (22mm) and tele day (43mm) **More lens options on page 45**	**1348**
MX-WH-SecureFlex	SecureFlex: shock-resistant wall/ceiling mount (illustration p. 50)	**48**
MX-MH-SecureFlex-ESWS	SecureFlex Pole Mount for M12 (illustration p. 50)	**78**

The HiRes Video Company

MOBOTIX

M12D-Sec-DNight

DNight: automatic Day/Night switching between two image sensors

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MByte	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker.	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options day	Lens options night
IP65	IP54	-	X	D22, D43, D135	N22, N43, N135

Outdoor weatherproof (IP65)
(-30°C to +60°C, -22°F to +140°F))

Features

Resolution

3MEGA, 2048x1536, CMOS sensor *color , MEGA*, 1280x960, CMOS sensor *B/W (IR-sensitive)*,
Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec),
Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses

L22 super wide-angle (90° x 67°); f = 4 mm (equiv. ~22 mm on 35mm systems); in 10m: 20,0m x 13,3 m
L43 wide-angle (45° x 35°); f = 8 mm (equiv. ~43 mm on 35mm systems), in 10 m: ca. 8,2 m x 6,1 m
L135 tele (15° x 11°); f = 25 mm (equiv. ~135 mm on 35mm systems); in 10 m: approx. 2,6 m x 1,9 m
DNight: automatic switching between color and BW sensors depending on illumination; no moving parts,
maintenance-free

Max. Frame Rate

30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA

Interfaces

10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)

Sensors

Video motion detection, exposure windows, PIR motion detector, microphone

Features

Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), Video audio recording (events), Video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer

64 MB internal image/event storage (approx. 4.000 images 320x240, high quality)

Internal DVR

Internal DVR 16 GB SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)
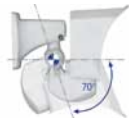
Optional Accessories

External power supply (MX-NPA-Set) is only required if power is not supplied using *PoE*

Dimensions

with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT)
with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)

Standard Delivery

Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench
SecureFlex: robust wall/ceiling mount with turn/tilt mount and **concealed** cabling, covers RJ45 wall outlets ==> patented, *tamper-proof* concealed cabling

Warranty

12 months

Article Number	Details	EVP Euro
MX-M12D-Sec-DNight-D43N43	In/Outdoor **3MEGA Dual**, incl. wide-angle **day (color)** (43mm) and wide-angle **night (B/W)** (43mm) **DNight**: automatic Day/Night switching depending on illumination	**1248**
MX-M12D-Sec-DNight-D135N135	In/Outdoor **3MEGA Dual**, incl. tele **day (color)** (135mm) and tele **night (B/W)** (135mm) **DNight**: automatic Day/Night switching depending on illumination	**1248**
MX-M12D-Sec-DNight-D22N22	In/Outdoor **3MEGA Dual**, incl. super wide-angle **day (color)** (22mm), super wide-angle **night (B/W)** (22mm), **DNight**: automatic Day/Night switching depending on illumination	**1348**

M12D-Sec-R16 — Internal Flash Recording

Features

Resolution max.	Image Storage	Internes Flash Recording	Sensitivity	Power Supply	Internal audio	Interfaces
2048 x 1536	64 MB	16 GB	1 lux 0,1 lux (Night)	PoE/NPA	Micro/Speaker	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options day	Lens options night
IP65	IP54	-	X	D22, D43, D135	N22, N43, N135

Outdoor weatherproof (IP65) (-30°C to +60°C, -22°F to +140°F)

Features

Resolution
3MEGA, 2048x1536, CMOS sensor *color, MEGA* 1280x960, CMOS sensor *B/W (IR-sensitive)*,
Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec),
Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
L22 super wide-angle (90° x 67°); f = 4 mm (equiv. ~22 mm on 35mm systems); in 10m: 20,0m x 13,3 m
L43 wide-angle (45° x 35°); f = 8 mm (equiv. ~43 mm on 35mm systems), in 10 m: ca. 8,2 m x 6,1 m
L135 tele (15° x 11°); f = 25 mm (equiv. ~135 mm on 35mm systems); in 10 m: approx. 2,6 m x 1,9 m
DNight: automatic switching between color and BW sensors depending on illumination; no moving parts, *maintenance-free*

Max. Frame Rate
30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA

Interfaces
10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)

Sensors
Video motion detection, exposure windows, PIR motion detector, microphone

Features
Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), Video audio recording (events), Video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx.4.000 images 320x240, high quality);

Internal DVR
16 GB internal Flash Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)

Optional Accessories
External power supply (MX-NPA-Set) is only required if power is not supplied using *PoE*

Dimensions
with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT)
with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)

Standard Delivery
Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench
SecureFlex: robust wall/ceiling mount with turn/tilt mount and **concealed** cabling, covers RJ45 wall outlets ==> patented, *tamper-proof* concealed cabling

Warranty
12 months

Article Number	Details	EVP Euro
MX-M12D-Sec-D22D135-R16	Outdoor **3MEGA Dual Internal Flash Recording**, incl. super wide-angle day (22mm) and tele day (135mm)	1498
MX-M12D-Sec-DNight-D135N135-R16	In/Outdoor **MEGA Dual Internal Flash Recording**, incl. tele **day (color)** (135mm) and tele **night (B/W)** (135mm) **DNight**: automatic Day/Night switching depending on illumination	1498
MX-M12D-Sec-DNight-D22N22-R16	In/Outdoor **MEGA Dual Internal Flash Recording**, incl. super wide-angle **day (color)** (22mm), super wide-angle **night (B/W)** (22mm), **DNight**: automatic Day/Night switching depending on illumination	1598

V12-Sec

Indoor

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces	IR-Illumination
2048 x 1536	64 MByte	1 lux 0,1 lux (Night)	PoE	Micro/Speaker	RS232, I/O, Audio, ISDN	X

Variations

Outdoor	Indoor	Mono	Dual	Lens options Day	Lens options Night
suitable	IP54	X	-	D22, D43	N22, N43

Features

Resolution	**3MEGA**, 2048x1536, CMOS sensor **color, MEGA** 1280x960, CMOS sensor **B/W (IR-sensitive)**, Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec), Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m)
Max. Frame Rate	**30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA**
Interfaces	10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated)*
Sensors	Video motion detection, exposure windows, PIR motion detector, microphone
Features	Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible) **Secure Model Extras**: scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	**64 MB** internal image/event storage (approx. 4.000 images 320x240, high quality)
Internal DVR	**Internal DVR 16 GB** SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)
Dimensions	248 x 185 x 153 mm
Standard Delivery	**Vandalism-protected stainless steel housing** (3 mm), gray, manual, Allen wrench, stainless steel screws with dowels, patch cable S/FTP yellow 8-wire 3 m (double-shielded), incl. power supply
Warranty	12 months
	* Upon request

Article Number	Details	EVP **Euro**
MX-V12D-Sec-D22D43	**Indoor MEGA**, vandalism-protected camera for corner mounting, incl. power supply, incl. 2 lenses (make sure to specify the lens types and positions)	**2598**
MX-V12M-Sec-D22	**Indoor MEGA**, vandalism-protected camera for corner mounting, incl. power supply, incl. 1 lens (make sure to specify the lens type and position)	**2498**
	Any lens combination with L22 and L43 for left/right/bottom sensors possible (total max. 2 lenses)!	

V12-Sec-R16 — Internal Flash Recording

Indoor

Features

Resolution max.	Image Storage	Internes Flash Recording	Sensitivity	Power Supply	Internal audio	Interfaces	IR-Illumination
2048 x 1536	64 MB	16 GB	1 lux 0,1 lux (Night)	PoE	Micro/Speaker	RS232, I/O, Audio, ISDN	X

Variations

Outdoor	Indoor	Mono	Dual	Lens options day	Lens options night
suitable	IP54	X	X	D22, D43	N22, N43

Features

Resolution
3MEGA, 2048x1536, CMOS sensor *color, MEGA* 1280x960, CMOS sensor *B/W (IR-sensitive)*,
sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec),
sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec),
Image formats: 2048x1536. 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400)
Zoom: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting

Lenses
L22 Super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m),
L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m)

Max. Frame Rate
30 fps VGA • 30 fps CIF • 14 fps MEGA • 10 fps 3MEGA

Interfaces
10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated)*

Sensors
Video motion detection, exposure windows, PIR motion detector, microphone

Features
Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (10 pre-, 10 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Secure Model Extras: scheduled privacy zones, flexible event logic, Master/Slave arming

Video Ring Buffer
64 MB internal image/event storage (approx.4.000 images 320x240, high quality);

Internal DVR
16 GB internal Flash Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)

Dimensions
248 x 185 x 153 mm (BxHxT)

Standard Delivery
Vandalism-protected stainless steel housing (3 mm), gray, manual, Allen wrench, stainless steel screws with dowels, patch cable S/FTP yellow 8-wire 3 m (double-shielded), incl. power supply

Warranty
12 months

* Upon request

Article Number	Details	EVP Euro
MX-V12D-Sec-D22D43-R16	**Indoor MEGA Internal Flash Recording**, vandalism-protected camera for corner mounting, incl. power supply, incl. 2 lenses (make sure to specify the lens types and positions)	**2848**
MX-V12M-Sec-D22-R16	**Indoor MEGA Internal Flash Recording**, vandalism-protected camera for corner mounting, incl. power supply, incl. 1 lens (make sure to specify the lens type and position)	**2748**
	Any lens combination with L22 and L43 for left/right/bottom sensors possible (total max. 2 lenses)!	

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ExtIO-Module

Features

Power Supply	Output contacts	Input contacts	Internal audio
USB / PoE	8 - 50V~	8 - 50V~	Speaker/Micro

Variations

Outdoor	Einsatzbereich	
IP65	Outdoor, Indoor	

Features

Interfaces	10BaseT-Ethernet (RJ45), serial interface, USB, terminal strip with 4 contacts for connecting external devices
Sensors	PIR, Temperature, IR-remote sensor, dawn sensor
Features	Connection and controlling of external devices (e.g. lights) as well as sensors, audio sources and loudspeakers is possible. Camera is connected and power supplied via mini USB interface and in the future also via Ethernet (software update).

Signal inputs (galvanically separated):
Signal Input 1: 8-50 V~
Signal Input 2: 8-50 V~
Signal outputs (potential-free):
Signal Output 1: 50 V~
Signal Output 2: 50 V~

Compatibility	Compatible to M12, D12, M22 and D22 camera series, (except basic models) via USB Compatible to M12, D12, M22, D22, Q22 camera series, (except basic models) via Network
Dimensions	(DxH) 160 x 45 mm
Standard Delivery	Weatherproof housing made of fiberglass-reinforced composites (PBT-30GF), manual, allen wrench, stainless steel screws with dowels
Accessories	All D22 accessories compatible (see page 45)
Warranty	12 months

Article Number	Details	EVP Euro
MX-EXTIO	**ExtIO** Extension modul	**198**
MX-OPT-AP	On-Wall Set (IP65) for **D22M** (illustration p. 48)	**98**
MX-CBL-MU-MU-1	Connector cable for **D22/D24 IT/Sec and Q24 Sec,** length 1 m	**9**
MX-CBL-MU-MU-5	Connector cable for **D22/D24 IT/Sec and Q24 Sec,** length 5 m	**19**
MX-CBL-U-MU-5	Connector cable for **M22 camera models,** length 5 m	**19**
MX-CBL-HD-MU-5	Connector cable for **M12/D12 camera models,** length 5 m	**29**

The HiRes Video Company

MOBOTIX

Cam-IO (Installation Box)

Outdoor weatherproof (IP65, -30°C to +60°C, -22°F to +140°F)

Features				
Power Supply	Output contacts	Input contacts	Internal audio	External audio
PoE / 230V / Battery	8 - 230V/500W*	8 - 230V*	Speaker	Speaker Out Line In

Variations			
PoE	AC	ACplus	Outdoor
M12, M22	M12, M22	M12	IP65

Features

Interfaces

10BaseT-Ethernet (RJ45), serial interface, terminal strip with 14 contacts for connecting external devices:
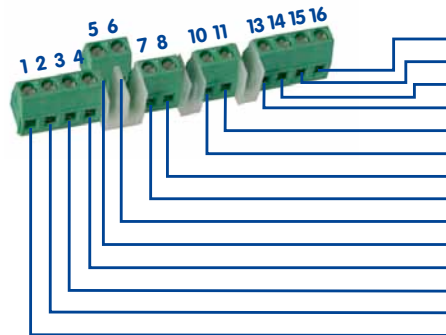
- Terminal 16: Pre-amplifier ext. microphone -
- Terminal 15: Pre-amplifier ext. microphon +
- Terminal 14: Ext. speaker -
- Terminal 13: Ext. speaker +
- Terminal 11: Wire 2 for signal input 1
- Terminal 10: Wire 1 for signal input 1
- Terminal 8: Wire 2 for signal input 2
- Terminal 7: Wire 1 for signal input 2
- Terminal 6: Wire 2 for signal output 2
- Terminal 5: Wire 1 for signal output 2
- Terminal 4: Neutral for signal output 1
- Terminal 3: Phase for signal output 1
- Terminal 2: Neutral conductor
- Terminal 1: Phase conductor

Features

Connection and controlling of external devices (e.g. lights) as well as sensors, audio sources and loudspeakers is possible. Camera is connected and power supplied via mini USB interface and in the future also via Ethernet (software update).
Signal inputs (galvanically separated):
Signal Input 1: 8-230 V
Signal Input 2: 8-230 V
Signal outputs (galvanically separated):
Signal Output 1: 230 V/500 W
Signal Output 2: 230 V/500 W

Compatibility

M12 (IT/SEC) and M22 (IT/SEC)

Dimensions

(WxHxD) 136 x 161 x 56 mm

Standard Delivery

Weatherproof housing made of fiberglass-reinforced composites (PBT-30GF), white metallic, SecureFlex wall mount for concealed installation of M12 and M22 cameras, manual, speaker cable, mounting screws, installation wrench, cable boot

Accessories

Connector cable M22 and M12 camera models

Warranty

12 months

Article Number	Details	EVP **Euro**
MX-CAMIO-POE	Power supply via **PoE**	**298**
MX-CAMIO-AC-230	Power supply via **230V power adapter or PoE**	**349**
MX-CAMIO-ACPLUS-230	Power supply via **230V power adapter or PoE, battery buffered**	**449**
MX-CAMIO-OPT-M22	Connector cable (4x5 USB cubic plug) for **M22 camera models**	**29**
MX-CAMIO-OPT-M12	Connector cable (4x5 HD 15 cubic plug) for **M12 camera models**	**29**
MX-CAMIO-OPT-GS	CamIO housing (if ordered separately)	**39**

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MOBOTIX

M12-DevKit

Concealed Installation

Features

Resolution max.	Image Storage	Sensitivity
2048 x 1536 (color) 1280 x 960 (s/w)	64 MByte	1 lux 0,1 lux (Night)

Variations

Schutzart	Sensorik	Lens options Day	Lens options Night
IP65 (Board Housing)	Dual	D22, D32, D43, D65, D135, CSVario	N22, N32, N43, N65, N135, CSVario

Features

Resolution	**3MEGA**, 2048x1536, CMOS sensor *color,* **2 x MEGA** 1280x960, CMOS sensor **B/W (IR-sensitive)**; Sensitivity (color): 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec); Sensitivity (BW): 0,1 lux (t = 1/60 sec) / 0,005 lux (t = 1/1 sec); Image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400); *Zoom*: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	*All lens options available!* L22 super wide-angle 22 mm (90°Hx67°V; in 10m: 20,0m x 13,3 m), L32 wide-angle 32 mm (60°Hx45°V, in 10m: 11,5m x 8,2m), L43 wide-angle 43 mm (45°Hx34°V, in 10m: 8,2m x 6,1m), L65 tele 65 mm (31°Hx23°V, in 10m: 5,5m x 4,0m), L135 tele 135 mm (15°Hx11°V, in 10m: 2,6m x 1,9m) *Camera modules and lenses can be freely and independently positioned*
Max. Frame Rate	*30 fps VGA • 30 fps CIF • 10 fps MEGA • 4 fps 3MEGA*
Interfaces	10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)
Sensors	Video motion detection, exposure windows, PIR motion detector, microphone
Features	Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), video audio recording (events), video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or *PC on the LAN* (Windows / Linux NFS); images are directly accessible, no FTP required (although possible) *Secure Model Extras*: scheduled privacy zones, flexible event logic, Master/Slave arming
Video Ring Buffer	*64 MB* internal image/event storage (approx. 4.000 images 320x240, high quality)
Internal DVR	*Internal DVR 16 GB* SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality),
Optional Accessories (p. 47)	External power supply (MX-NPA-Set) is only required if power is not supplied using *PoE*, camera modules include 30cm ribbon cable, **CS Mount adapter (MX-M12-DevKit-CS)**
Dimensions	Main Board: 123 x 115mm (W x H); Gewicht: Platine in Gehäuse: 600g
Standard Delivery	M12 main board incl. sound module und Secure firmware for connecting up to 2 camera modules using ribbon cable *with board housing* (for concealed installation); lenses and camera modules *not* included
Warranty	12 months The CE test must be carried out by the installer after the installation!

Article Number	Details	EVP **Euro**
MX-M12-DevKit-Board	M12 main board, incl. hausing, sound module and secure firmware for connecting up to 2 camera moduels with ribbon cables, excl. camera module/lens	**948**
Sensor options:		
MX-M12-DevKit-C	Sensorboard Color & M14 adapter & ribbon cable (2048 x 1536 Pixel)	**90 each**
MX-M12-DevKit-BW	Sensorboard Black/white & M14 adapter & ribbon cable (1280 x 960 Pixel)	**90**
MX-M12-DevKit-M14-C	Sensorboard Color in aluminium block (M14) & ribbon cable (2048 x 1536 Pixel)	**140 each**
MX-M12-DevKit-M14-BW	Sensorboard Black/white in aluminium block (M14) & ribbon cable (1280 x 960 Pixel)	**140 each**
MX-M12-DevKit-CS-C	Sensorboard Color in aluminium block (CS) & ribbon cable (2048 x 1536 Pixel)	**140 each**
MX-M12-DevKit-CS-BW	Sensorboard Black/white in aluminium block (CS) & ribbon cable (1280 x 960 Pixel)	**140 each**
Expansion set:		
MX-LINK-1	TX module & RX module and 1-meter cable for each DevKit sensor	**100**
Lenses:	**Please order lenses separately. See page 45 for lens options.**	

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M12D-Sec-LPF

LPF: Special filter, which enhances image contrast for automatic license plate recognition

Features

Resolution max.	Image Storage	Sensitivity	Power Supply	Internal audio	Interfaces
1280 x 960	64 MByte	0,1 lux (LPF) 0,1 lux (Night)	PoE/NPA	Mikro/Lautspr.	RS232, I/O, Audio, ISDN

Variations

Outdoor	Indoor	Mono	Dual	Lens options	
IP65	IP54	-	X	fix (siehe Modelle)	-

Outdoor wetterfest (IP65) (-30°C bis +60°C)

Funktionen

Resolution	**MEGA** 1280x960, CMOS-sensor **Black/White** (including LPF special fi lter, infrared lights required) **MEGA** 1280x960, CMOS-Sensor **Black/White** (IR-sensitive), Sensitivity: 1 lux (t = 1/60 sec) / 0,05 lux (t = 1/1 sec), image formats: 2048x1536, 1280x960, 640x480, 320x240, 160x120 pixels, custom formats (e.g. 1000 x 400) **Zoom**: Digital zoom 2x, 4x, 8x, variable up to 8x, software panning/tilting
Lenses	**Fixed lens combinations (see model listing)** **L22 super wide-angle** (90° x 67°); f = 4 mm (equiv. ~22 mm on 35mm systems); in 10m: 20,0m x 13,3 m **L43 wide-angle** (45° x 35°); f = 8 mm (equiv. ~43 mm on 35mm systems), in 10 m: ca. 8,3 m x 6,2 m **L135 tele** (15° x 11°); f = 25 mm (equiv. ~135 mm on 35mm systems); in 10 m: ca. 2,7 m x 2,0 m *No mechanical moving parts:* **maintenance-free**
Max. Frame Rate	**30 fps VGA • 30 fps CIF • 14 fps MEGA**
Interfaces	10/100 Ethernet (RJ45), ISDN S0 (RJ45), RS232 (D Sub 15 HD socket), 1 x In, 1 x Out (galv. isolated from power supply)
Sensors	Video motion detection, exposure windows, PIR motion detector, microphone
Features	Web server, FTP client, e-Mail, ISDN PPP server/client, Multiview, recorder/player, softbuttons, RS232 data logger, RS232 Web terminal; IP Notify (send, receive) for external management systems, integrated VoIP from/ to browser, ISDN telephony, SIP video telephony and alarm messaging, IP announcement, PDA web pages, MxPEG Live, logo generator, snapshot recording (50 pre-, 50 post-alarm images), video audio recording (30 fps VGA), Video audio recording (events), Video audio recording (scheduled); event- and time-controlled storage: internal, via FTP on web server or **PC on the LAN** (Windows/Linux NFS/Mac); images are directly accessible, no FTP required (although possible)
Video Ring Buffer	**64 MB** internal image/event storage (approx. 4.000 images 320x240, high quality)
Internal DVR	**Internal DVR 16 GB** SD Recording (approx. 600.000 images VGA, 200.000 images MEGA, high quality)
Optional Accessories (p. 47)	**External power supply (MX-NPA-Set)** is only required if power is not supplied using **PoE**
Dimensions	with SecureFlex in wall mount position: 137 x 150 x 200 mm (WxHxT) with SecureFlex in ceiling mount position: 137 x 200 x 187 mm (WxHxT)
Standard Delivery	Weatherproof housing (IP65) made of fiberglass-reinforced composites (PBT-30GF), white metallic, manual, patch cable S/FTP white 8-wire 50 cm (double-shielded), Allen wrench **SecureFlex**: robust wall/ceiling mount with turn/tilt mount and **concealed** cabling, covers RJ45 wall outlets ==> patented, **tamper-proof** concealed cabling
Warranty	12 months

Article Number	Details	EVP **Euro**
MX-M12D-Sec-N135-LPF	In/Outdoor **MEGA Dual**, incl. tele (Night) (135mm) and tele (Night) (135mm) with special filter	**1548**
MX-M12D-Sec-N43-LPF	In/Outdoor **MEGA Dual**, incl. wide angle (Night) (43mm) and wide angle (Night) (43mm) with special filter	**1548**
MX-M12D-Sec-N43N135-LPF	In/Outdoor **MEGA Dual**, incl. wide angle (Night) (43mm) and tele (Night) (135mm) with special filter	**1548**
MX-M12D-Sec-N22N135-LPF	In/Outdoor **MEGA Dual**, incl. Super wide-angle (Night) (22mm) and tele (Night) (135mm) with special filter	**1548**
MX-M12D-Sec-N22N43-LPF	In/Outdoor **MEGA Dual**, incl. Super wide-angle (Night) (22mm) and wide angle (Night) (43mm) with special filter	**1548**

Notes

Q24 camera models

- The Q24 camera models can be ordered with L11 or L22 lens.

D24 camera models

- The lenses in D24 camera models can be replaced on site. The lenses are locked into position using retaining rings. The L22 lens in the IT models is set at the factory. The quality is also inspected so that generally no further focusing is required on site.

- All lenses can be used in the D24 camera models.

M22 camera models

- The lenses in M22 camera models can be replaced on site. The lenses are locked into position using retaining rings. The L22 lens in the IT models is set at the factory. The quality is also inspected so that generally no further focusing is required on site.

- All lenses can be used in the M22 camera models.

M12 camera models

- The lenses in the M12 camera models are set and locked into position at the factory (not the L135), meaning that they are adjusted to their optimum focus for the lifetime of the cameras. This provides the advantage that the camera is more robust, particularly in regard to vibrations and shocks (resistance to wind, mast movement).

- Subsequent replacement of the lens (L43/L135) by MOBOTIX costs **200 EUR net (300 EUR for both lenses)**. These prices include the lens and the cost of replacement.

D12 camera models

- The lenses in D12 camera models can be replaced on site. The lenses are locked into position using retaining rings.

- All lenses can be used in the D12 camera models.

L11 Hemispheric 360°:
90° Super wide-angle (90° x 67°); f= 4 mm (equiv. to approx. 22mm on 35mm systems); in 10 m: approx. 20.0 m x 13.3

L22 Super wide-angle lens (Day/Night):
90° Super wide-angle (90° x 67°); f= 4 mm (equiv. to approx. 22mm on 35mm systems); in 10 m: approx. 20.0 m x 13.3 m ==> very little distortion and practically no shading; excellent resolution, also in zoom operation

L32 Wide-angle lens (Day/Night):
60° wide-angle (60° x 45°); f = 6 mm (equiv. to approx. 32mm on 35mm systems), in 10 m: approx. 11,5 m x8,21 m

L43 Wide-angle lens (Day/Night):
45° wide-angle (45° x 35°); f = 8 mm (equiv. to approx. 43mm on 35mm systems), in 10 m: approx. 8,2 m x 6,1 m

L65 Tele lens (Day/Night):
31° wide-angle (31° x 23°); f = 12 mm (equiv. to approx. 65mm on 35mm systems), in 10 m: approx. 5,5 m x 4,0 m

L135 Tele lens (Day/Night):
15° Tele (15° x 11°); f = 25 mm (equiv. to approx. 135mm on 35mm systems); in 10 m: approx. 2,6 m x 1,9 m

Q24 Hemisphäric 360°

L22-Super Wide Angle 90°

Note: The IR filters for the color sensors are NOT installed in the lens, but instead in the lens mount of the camera.

Article Number	Details	EVP Euro
MX-OPT14-L22	L22 super wide-angle 22 mm (90°H x 67°V; in 10m: 20,0m x 13,3 m)	**60**
MX-OPT14-L32	L32 wide-angle 32 mm (60°H x 45°V, in 10m: 11,5m x 8,2m)	**60**
MX-OPT14-L43	L43 wide-angle 43 mm (45°H x 34°V, in 10m: 8,2m x 6,1m)	**60**
MX-OPT14-L65	L65 tele 65 mm (31°H x 23°V, in 10m: 5,5m x 4,0m)	**60**
MX-OPT14-L135	L135 tele 135 mm (15°H x 11°V, in 10m: 2,6m x 1,9m)	**60**

Lens Table

Article Number	L11	L22 Super Wide Angle 90°	L32 Wide Angle 60°	L22 Super Wide Angle 90°	L65 Tele 31°	L135 Tele 15°
Original image						
35mm equivalent	11 mm	22 mm	32 mm	43 mm	65 mm	135 mm
Focal length	2 mm	4 mm	6 mm	8 mm	12 mm	25 mm
Aperture (F)	2,0	2,0	2,0	2,0	2,0	2,5
Image angle horizontally	185°	90°	60°	45°	31°	15°
Image angle vertically	185°	67°	45°	34°	23°	11°
Distance 1 m (3')		m	m	m	m	m
• Image width	-	2,0	11	0,8	0,5	0,3
• Image height	-	1,3	0,8	0,6	0,4	0,2
Distance 5 m (15')		m	m	m	m	m
• Image width	-	10,0	5,7	4,1	2,7	1,3
• Image height	-	**6,6**	**4,1**	**3,0**	**2,0**	**1,0**
Distance 10 m (30')		m	m	m	m	m
• Image width	-	20,0	11,5	8,2	5,5	2,6
• Image height	-	13,3	8,2	6,1	4,0	1,9
Distance 20 m (60')		m	m	m	m	m
• Image width	-	40,0	23,0	16,4	11,0	5,2
• Image height	-	26,6	16,4	12,2	8,0	3,8
Distance 50 m (150')		m	m	m	m	m
• Image width	-	100,0	57,5	41,0	27,5	13,0
• Image height	-	66,0	41,0	30,5	20,0	9,5

Objectifs disponibles	L11 Day	L11 Night	L22 Day	L22 Night	L32 Day	L32 Night	L43 Day	L43 Night	L65 Day	L65 Night	L135 Day	L135 Night
					• Standard delivery, • Optional, D (Day), N (Night)							
D24Mi-Basic			•		•		•		•		•	
D24M-IT			•		•		•		•		•	
D24M-IT-Night				•		•		•		•		•
D24M-Sec			•		•		•		•		•	
D24M-Sec-Night				•		•		•		•		•
M22M-IT			•		•		•		•		•	
M22M-IT-Night				•		•		•		•		•
M22M-Sec			•		•		•		•		•	
M22M-Sec-Night				•		•		•		•		•
M12M-Web							•					
M12D-IT-DNight							•	•			•	•
M12D-Sec			•				•				•	
M12D-Sec-DNight			•	•			•	•			•	•
D12Di-IT/D12Di-Sec			•	•	•	•	•	•	•	•	•	•
Q24M-Basic	•		•									
Q24M-Sec	•		•									

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Article Number	Details	EVP Euro
MX-NPA-Set-DE	Network Power Adapter Set for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**98**
	• Mx30V inline power supply using the network cabling to the camera; Pin8 = (+), Pin7 = (-) • Integrated cross-over feature for directly connecting to PC • Consists of NPA and power supply MX-SNT-GB01-30-RJ	
MX-SNT-E01-30-RJ	Euro-30V External power supply with RJ45 plug for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**45**
	• If the power for the camera is to be supplied via network cable (Power over Ethernet), the network power adapter (MX-NPA-3-RJ) is required. • Input voltage: 100-250V~, Output voltage: 30V=/240 mA	
MX-SNT-U01-30-RJ	USA-30V External power supply with RJ45 plug for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**45**
	• Input voltage: 100-250V~, Output voltage: 30V=/240 mA	
MX-SNT-GB01-30-RJ	UK-30V External power supply with RJ45 plug for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**45**
	• Input voltage: 100-250V~, Output voltage: 30V=/240 mA	
MX-SNT-J01-30-RJ	Japan-30V External power supply with RJ45 plug for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**45**
	• Input voltage: 100-250V, Output voltage: 30V=/240 mA	
MX-SNT-AUS01-30-RJ	Australia-30V External power supply with RJ45 plug for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**45**
	• Input voltage: 100-250V~, Output voltage: 30V=/240 mA	
MX-NPA-3-RJ	Network Power Adapter with RJ45 socket for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**75**
	• Mx30V inline power supply using the network cabling to the camera; Pin8 = (+), Pin7 = (-) • Integrated cross-over feature for directly connecting to PC • 3 RJ45 connectors (power supply, camera, network)	
MX-NPR-4	DIN rail NETPOWER Network Power Box for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**398**
	• 4x Mx30V power supply with 4 integrated Network Power Adapters • Power supply input voltage: 100-250V~ • Output voltage: 30V=/240 mA	
MX-NPR-8	19" NETPOWER Network Power Rack for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**948**
	• Mx30V inline power supply using the network cabling to the camera; Pin8 = (+), Pin7 = (-); surge protection • Behind the switch for up to 8 cameras with 2 RJ45 sockets each, inline data signals • 19" rack mount with 2 rack units, stainless steel front plate	
MX-NPR-20	19" NETPOWER Network Power Rack for **M12, D12, M22, D22, Q22 (not available for D24/Q24!)**	**1498**
	• Same as MX-NPR-8, but for up to 20 cameras	

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Article Number	Details (cameras is not included in the delivery)	EVP Euro
MX-D24M-Vandal-ESMA	Vandalism Set **matt** for **D22/D24 IT/Sec cameras**	98
	• Stainless steel cover matt • Consists of stainless steel cover and security screws • Reinforced dome (3mm polycarbonate) • Ideally suited for surveillance at extremely critical locations	
MX-D24M-Vandal-ESPO	Vandalism Set **polished** for **D22/D24 IT/Sec cameras**	98
	• Stainless steel cover polished, reinforced dome, security screws	
MX-D24M-Vandal-PUGR	Vandalism Set **silver** for **D22/D24 IT/Sec cameras**	98
	• Stainless steel cover silver powder-coated, reinforced dome, security screws	
MX-D24M-Vandal-PUBL	Vandalism Set **black powder-coated** for **D22/D24 IT/Sec cameras**	98
	• Stainless steel cover black powder-coated, reinforced dome, security screws	
MX-D24M-Vandal-PUWH	Vandalism Set **white** for **D22/D24 IT/Sec cameras**	98
	• Stainless steel cover white powder-coated, reinforced dome, security screws	
MX-OPT-AP	On-Wall Set (IP65) for **D22/D24 IT/Sec cameras**	98
	• Consists of On-Wall Mount and mounting parts • Also conforms to U.S. installation standards • Reliably protects the cabling and allows integrating additional modules within the On-Wall Mount	
MX-OPT-AP-10DEG	10° On-Wall Set (IP65) for **D22/D24 IT/Sec cameras**	98
	• consists of On-Wall mount and mounting supplies for slanted installation (10°) of a camera (also for Q22) • same as above	
MX-OPT-IC	In-Ceiling Set for **D22/D24 IT/Sec cameras**	98
	• Easy mounting • Suitable for hidden surveillance	
MX-OPT-WH	Outdoor Wall Mount for **D22/D24 IT/Sec cameras**	98
	• Consists of Outdoor Wall Mount and mounting parts • Covers RJ45 wall outlets • Space for expansion modules (battery, 3g, WiFi, etc.) • Easily mounted to poles using Pole Mount • watherproof IP65	
MX-OPT-MH	Pole Mount for **D22/D24 IT/Sec cameras**	98
	• For Dome wall mount • Can be mounted to 90° corners, one Dome covers two sides • 3 mm stainless steel, white • Set price without wall mount and camera	
MX-OPT-WHMH	Pole and Wall Mount SET for **D22/D24 IT/Sec cameras**	168
	• Set consists of Pole and Corner Mount and Wall Mount for D22/D24 IT/Sec und Q22/Q24 Sec	
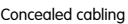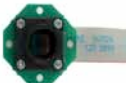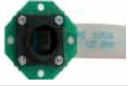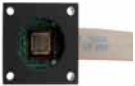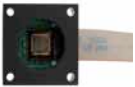
Article Number	Details (cameras is not included in the delivery)	EVP Euro
MX-Q24M-Vandal-ESMA	**Vandalism Set matt for Q22/Q24 Sec**	198
	• Stainless steel cover matt • Consists of stainless steel cover and security screws • Reinforced dome (3mm polycarbonate) • Ideally suited for surveillance at extremely critical locations	
MX-Q24M-Vandal-ESPO	**Vandalism Set polished for Q22/Q24 Sec**	198
	• Stainless stell cover polished, reinforce dome, scurity scresw	
MX-OPT-AP	**On-Wall Set (IP65) for Q22/Q24 Sec**	98
	• Consists of On-Wall Mount and mounting parts • Also conforms to U.S. installation standards • Reliably protects the cabling and allows integrating additional modules within the On-Wall Mount	
MX-OPT-AP-10DEG	**10° On-Wall Set (IP65) for Q22/Q24 Sec**	98
	• consists of On-Wall mount and mounting supplies for slanted installation (10°) of a camera (also for Q22) • same as above	
MX-OPT-IC	**In-Ceiling Set for Q22/Q24 Sec**	98
	• Easy mounting • Suitable for hidden surveillance	
MX-OPT-WH	**Outdoor Wall Mount for Q22/Q24 Sec**	98
	• Consists of Outdoor Wall Mount and mounting parts • Covers RJ45 wall outlets • Space for expansion modules (battery, 3g, WiFi, etc.) • Easily mounted to poles using Pole Mount • watherproof IP65	
MX-OPT-MH	**Pole Mount for Q22/Q24 Sec**	98
	• For Dome wall mount • Can be mounted to 90° corners, one Dome covers two sides • 3 mm stainless steel, white • Set price without wall mount and camera	
MX-OPT-WHMH	**Pole and Wall Mount SET for Q22/Q24 Sec**	168
	• Set consists of Pole and Corner Mount and Wall Mount for D22/D24 IT/Sec und Q22/Q24 Sec	

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Article Number	Details Accessories M12 (cameras is not included in the delivery)	EVP Euro
MX-WH-SecureFlex	SecureFlex: shock-resistant wall/ceiling mount **for M1/M10/M12**	**48**

- Shock-resistant fiberglass-reinforced composite (PBT), white
- Turn/tilt unit with **concealed cabling**
- Covers RJ45 wall outlets => **patented tamper-proof concealed** cabling
- Can be turned left/right ± 90°,tilted downwards -70°
- Includes stainless steel mounting set, caps and dowels
- Fits al M1/M10/M12 cameras

Concealed cabling   Space for RJ45 wall outlet   Mouting to a ceiling   Mouting to a wall

MX-MH-SecureFlex-ESWS	SecureFlex Pole Mount **for M1/M10/M12/M22 Kameras**	**78**

- For SecureFlex wall mount
- 3 mm stainless steel, white
- Includes mounting straps and screws

MX-M12-DevKit-C	M14 Adapter (color)	**90**

- M14-Adapter incl. sensor (color) and ribbon cable (30cm)
- Special Options (**DevKit** models only)
- Ribbon cable (30cm)

MX-M12-DevKit-BW	M14 Adapter (black/white)	**90**

- M14 adapter incl. sensor (B/W) and ribbon cable (30cm)
- Special Options (**DevKit** models only)
- Ribbon cable (30cm)

MX-M12-DevKit-CS-C	CS-Mount Adapter (Color) - metal	**140**

- CS-Mount Adapter (Color) and ribbon cable (30cm)
- Special Options (DevKit models only) r

MX-M12-DevKit-CS-BW	CS-Mount Adapter (Black/White) - metal	**140**

- CS-Mount Adapter (BW) and ribbon cable (30cm)
- Special Options (DevKit models only)
- Ribbon cable (30cm)

MX-M12-DevKit-M14-C	M14 Adapter (color) - metal	**140**

- M14-Adapter incl. sensor (color) and ribbon cable (30cm)
- Special Options (**DevKit** models only)
- Ribbon cable (30cm)

MX-M12-DevKit-M14-BW	M14 Adapter (black/white) - metal	**140**

- M14 adapter incl. sensor (B/W) and ribbon cable (30cm)
- Special Options (**DevKit** models only)
- Ribbon cable (30cm)

MX-M12-DevKit-M14-LPF	M14 Adapter (black/white LPF) - metal	**300**

- M14 adapter incl. sensor (B/W) and ribbon cable (30cm)
- Special Options (**DevKit** models only)
- Ribbon cable (30cm)

MX-LINK-1	DevKit extension - 1m distance between sensor and DevKit board	**100**

- Tx module in order to plug the module on the sensor (to replace ribbon cable)
- Rx module in order to plug the module on the DevKit main board
- MxLink connection cable (1m)

MX-M12-DevKit-L30	30 cm ribbon cable for DevKit	**18**

- 30 cm ribbon cable for connecting MX camera modules
  Note: Ribbon cables 30 cm are included in the camera modules

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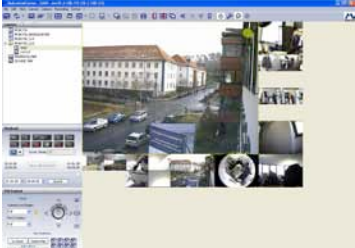| Article Number	Details Accessories D12 (cameras is not included in the delivery)	EVP Euro
MX-D12-Vandal-ESMA		148
	• Stainless steel cover matt • Consists of stainless steel cover and security screws • Reinforced dome (3mm polycarbonate) • Ideally suited for surveillance at extremely critical locations	
MX-D12-Vandal-ESPO		148
	• Stainless steel cover polished, reinforced dome, security screws	
MX-D12-Vandal-PUGR		148
	• Stainless steel cover grey powder-coated, reinforced dome, security screws	
MX-D12-Vandal-PUWH		148
	• Stainless steel cover white powder-coated, reinforced dome, security screws	
MX-D12-Vandal-PUBL		148
	• Stainless steel cover black powder-coated, reinforced dome, security screws	
MX-WH-Dome	Dome Wall Mount **for D12 cameras**	148
	• Shock-resistant fiberglass-reinforced plastic (PBT), white • Covers up RJ45 outlet • Ample room inside for extras (WiFi, relay, etc.) • Polyurethane sealing for mounting to wall • Includes stainless steel mounting supply, covers and dowels • D12-DualDome with Outdoor wall mount attains protection class **IP65**	
MX-MH-Dome-ESWS	Pole & Corner Mount for Dome with Outdoor wall mount **for D12**	98
	• For Dome wall mount • Can be mounted to 90° corners; **one** DualDome covers **two** sides • 3 mm stainless steel, white • Includes mounting straps and screws • Wandhalter ist im Lieferumfang nicht enthalten	
MX-D12D-OPT-WHMH-Set	Pole & Corner Mount and Wall Mount **"Set" for D12 cameras**	198
	• Set consists of Pole & Corner Mount and Wall Mount for D12	

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MSRP (Manufacturer's suggested retail prices) • Prices ex-works Langmeil Germany (EXW) • excluding VAT and any other handling charges

Information subject to change without notice! • Product Portfolio 2009 • Date: 5/2009

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Article Number	Details: Other accessories	EVP Euro
MX-OPTCS-L24-54	CSVario lens 24-54 mm	118
	• Vario lens for **MX-D12M-Sec-CSVario/MX-D12M-Sec-Night-CSVario/MX-M22M-Sec-CSVario/MX-M22M-Sec-Night-CSVario** or in connection with **CS-Mount Adapter** • CS Mount Vario-24-54; f = 4.5 bis 10 mm (equiv. approx. 24 to 54 mm on 35mm systems)	
MX-M22M-OPT-LCSK	Lens cover **for M22M cameras** (from p. 20)	20
	• Lens protection for all M22M camera models	
MX-M22M-OPT-LCSG	Lens cover with glass pane **for M22M cameras** (from p. 20)	30
	• Lens protection with durable glass pane for M22M • Short Version	
MX-M22M-OPT-LCSGL	Lens cover with glass pane **for M22M cameras** (from p. 20)	30
	• Lens protection with durable glass pane for M22M-CSVario • Extended version for CSVario lenses	
MX-D24M-OPT-DCT	Transparent or Tinted Dome **for D22M-Kameras**	29
	• Transparent reinforced dome • Tinted Dome (50%)	
MX-D12D-OPT-DCS	Tinted Dome **for D12 cameras**	29
	• Tinted Dome (50%)	
MX-D12D-OPT-DCT	Transparent Dome **for D12 cameras**	29
	• Transparent Dome	
MxControlCenter-Windows Client	Download MxControlCenter free of charge at www.mobotix.com	free of charge
	• Professional IP video management software incl. alarm management • high performance with 30 video streams • Synchronized and simultaneous event search on several cameras • Image post processing (contrast, zoom, lens distortion) • Integration of analog and digital PTZ cameras	
MxEasy	Download MxEasy free of charge at www.mobotix.com	free of charge
	• Easy-to-use video management software, ideally designed for the wide range of functions of the MOBOTIX cameras • Monitoring of up to 16 MOBOTIX cameras • Supports decentralized system concept and works with internal camera recording (Internal DVR) • Simple, quick setup; user-friendly and intuitive operation • Transparent layout of operating elements; compatible with touch panels • Ideally suited for Small Office and Home Security environments • Platform-independent format (Windows, MAC; Linux in planning)	

Imprint

Remarks

- Prices subject to change
- All prices are manufacturer's suggested retail prices
- Technical information subject to change without notice!

Abbreviations

- FO = Factory-Option
- red = Key Points
- red italic = Differences between models
- (W x H X D) = Measurements; Width x Height x Depth
- MSRP EURO = Manufacturer's suggested retail price (net)

Terms and Conditions

Terms of delivery:
- Ex Works Kaiserslautern, Germany
- Excl. shipping, insurance, duties and taxes

Pricing:
- Prices will vary between countries depending on shipping, insurance, duties and taxes, etc.

Contact

MOBOTIX AG
Kaiserstrasse
D-67722 Langmeil
Tel.: +49 (6302) 9816-0
Fax.: +49 (6302) 9816-190
sales@mobotix.com

Orders
Tel.: +49 (6302) 9816-106
Fax.: +49 (6302) 9816-190
order@mobotix.com

Presales
Tel.: +49 (6302) 9816-103
sales@mobotix.com

Technical Support
Tel.: +49 (6302) 9816-102
intl-support@mobotix.com

Notes