



The HiRes Video Company

**MOBOTIX**

## Complete HiRes Video Solutions high-resolution, digital & cost-effective recording



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 Flash,  
external via Network

Win/Lin/Mac

**Recording**
via Network on PC  
up to 1 Terabyte

Microphone &amp; 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 to +140 °F

**Weatherproof**
-30 to +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

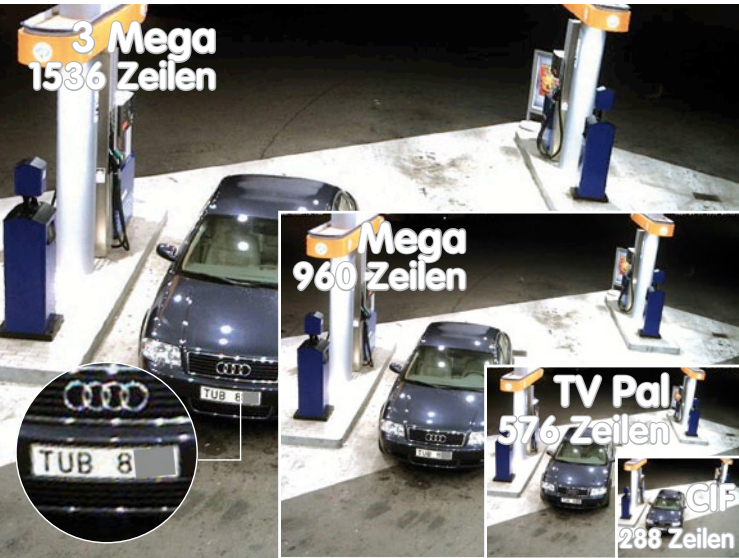
### HiRes Video Innovations

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.

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# The MOBOTIX Concept

## Was Somewhat Out Of Ordinary ...



### HiRes Video Innovations And Technology Leader

The German company MOBOTIX AG is known as the leading pioneer in network camera technology since its founding in 1999, and its decentralized concept has made high-resolution video systems cost efficient.

MOBOTIX has been producing megapixel cameras exclusively for many years now and is regarded as **the global market leader for high-resolution video systems.**

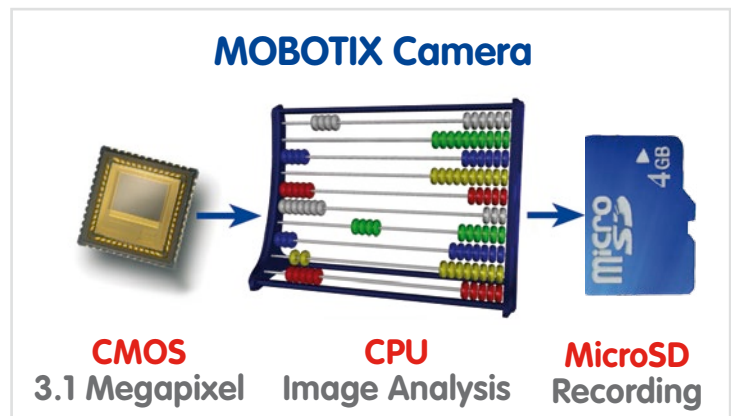
### Why High-Resolution Systems?

The higher the resolution, the more accurate the detail in the image. With analog technology, a recorded image

generally has no more than 0.1 megapixels (CIF). **One single MOBOTIX camera with 3.1 megapixels records around 30 times more detail.** As a result, larger image areas with up to 360° allround views are possible, thus reducing the number of cameras, and therefore the costs. For example, four lanes of a gas station can be recorded with one MOBOTIX camera instead of four conventional cameras.

### Disadvantages Of The Old Centralized Standard Solution

Usually, cameras only supply the images while the processing and recording is done later on a central PC using expensive video management software. This traditional centralized structure has many limitations, since it requires high network bandwidth and the PC processing power is not enough for several cameras. An HDTV MPEG4 film already puts considerable strain on a PC, so how can it be expected to process dozens of high-resolution live cameras? **Traditional centralized systems are therefore less suitable and unprofitable when compared with high-resolution systems due to the high number of PCs needed.**



### Network Video

MOBOTIX has redefined video. Whether on the Internet, in traffic management, building surveillance or banking environment, the MOBOTIX camera is connected to the network like a printer and live and recorded images can then be retrieved from any PC without installing any software.

# ... Is The Benchmark Today

## The Decentralized MOBOTIX Concept

Unlike other systems, with the decentralized MOBOTIX concept, a high-speed computer and if necessary, digital long-term memory (MicroSD Card) is built into every camera, providing several days of recording time. The PC and the video control center now serve only for viewing and controlling the cameras (PTZ), not for analysis or recording. This makes it unnecessary to purchase expensive video management software, as the most important and computer-intensive functions are already integrated in the MOBOTIX cameras.



## The Benefits

MOBOTIX video solutions therefore require significantly:

- **fewer cameras** due to the more accurate detail of panoramic images with megapixel technology,
- **fewer storage devices**, because in the decentralized system, 10 times the standard number of cameras can simultaneously store high-resolution HDTV video with sound on one PC/server,
- **lower network bandwidth**, because everything is processed in the camera itself and the high-resolution images therefore do not have to be constantly transferred for analysis.

## Robust And Low-Maintenance

MOBOTIX cameras have neither mechanical motors for lenses nor for movement. Without any moving parts, they are therefore so robust that maintenance is reduced to a minimum. The unique temperature range from is achieved without heating or a fan at only 3 watts. Since no PC hard disk is required for recording, there are no parts that wear out in the entire video system.

## Standardized Network Technology

The networking of cameras incl. power supply is encoded and occurs via a normal computer network and not via video cable. This has the advantage of connecting from anywhere in the world with glass, copper or even wireless access using affordable standard IT technology components.



# Innovative Hemispheric Technology

## The **MOBOTIX** ...

### Perfect Room Overview

With the innovative MOBOTIX Hemispheric Technology, an entire room can be ideally monitored. For instance, one single, and particularly elegant and discreet Q24 hemispheric camera replaces the time-consuming and expensive installation of several standard cameras. This camera, a world first, is evidence of the MOBOTIX commitment to innovation as the global leader in megapixel video security systems.

### High-Resolution 180° Panorama

When several cameras are monitoring a single room, it is difficult to understand the room layout due to the different viewing directions of each camera. This makes it hard to comprehend the overall setting. **The new panorama function of the Q24 delivers a widescreen image of a high-resolution 180° allround view.** High image quality is achieved through the use of a 3.1 megapixel sensor and the new hemispheric lens of the Q24.



- **No blind spots** from wall to wall and from floor to ceiling
- Ideal for securing **a room** or entrance area **with only one camera**
- The hemispheric camera also delivers two (opposite) **double panorama images**
- **Fewer cameras, less cabling, lower costs and more discretion**
- **All objects in view of the observer** – in contrast to a conventional solution with multiple cameras
- High image quality thanks to the **high-resolution megapixel sensor (3 megapixel color sensor or highly-sensitive megapixel black and white sensor for low-light conditions)**

### Very Simple Installation

Just install the camera on the ceiling, wall or pole, connect the network cable or wireless module, and you're done! Probably no other camera can be connected more quickly or easily than a MOBOTIX camera. And because fewer cameras are needed, the installation costs drop even further.



# ... Hemispheric Camera

## Virtual PTZ – Without Motor

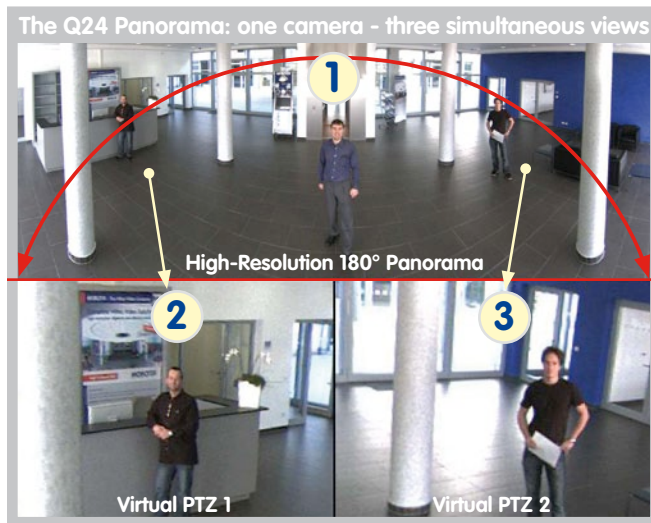
The Q24 also zooms in on details. The image of the hemispheric camera can be continuously enlarged and any image section examined using a joystick, for example. Thus you have a **mechanical PTZ camera without the maintenance or wear and tear**.

While zooming into a section in the live image, a full image can be stored in the recording for later analysis. No PTZ-camera in the world that operates with a motor can do that!



## One Camera, More Views

The surround function of the Q24 (**ceiling mounted**) immediately replaces **four conventional cameras** and shows four different directions simultaneously in quad view on a monitor. **Virtual PTZ is available for each of the four views**. Together with the 180° panorama, the Q24 can deliver two more views simultaneously, making it possible to see the overview and to focus on two scenes at the same time (Display Mode 'Panorama Focus').



## Highly User Friendly

The full image from a hemispheric lens (fisheye) is difficult to analyze. MOBOTIX solves this problem by straightening the uneven lines from the camera software perfectly already the live image. The user PC does not experience any additional strain as a result of this process, as image correction and generation of all desired image views takes place in the camera itself. Thus it is possible to display a large number of panoramic cameras simultaneously on a single PC.

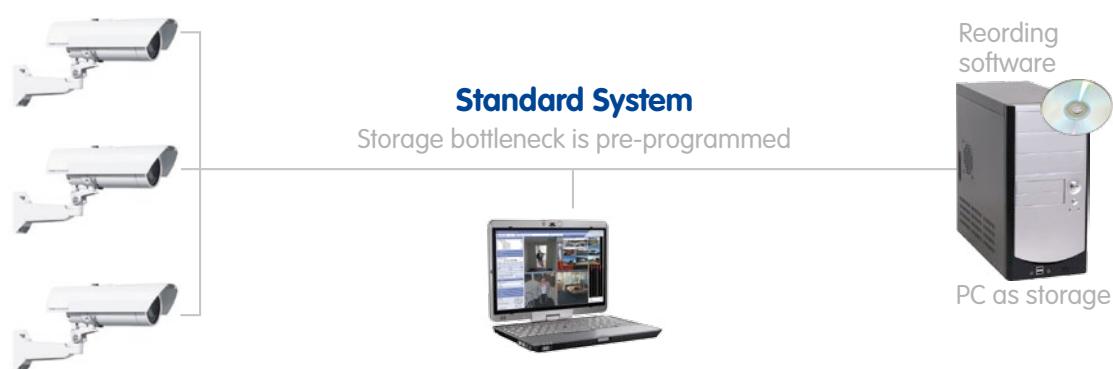
## Software Included

With MOBOTIX, the software for controlling the camera and searching for events can be used at no charge. You can easily control the video system from any standard PC. This even works worldwide via a DSL Internet connection.

## The Superior MOBOTIX ...

### MOBOTIX Storage Concept Without Bottlenecks

These days, video data is normally pre-processed and stored centrally on a PC or digital video recorder (DVR) using video management software. Video and audio streams from all installed cameras are directed to this central device. In this case, using high-resolution cameras often results in data jam. Above all, storage is inefficient, because if the PC has limited computing power, the high-resolution video with a high frame rate must be sent directly to a storage device before it can be processed.



Standard system requires an extra PC including software for analysis and storage

If, like with MOBOTIX cameras, the camera adjusts the image format and the frame rate to the correct values for the specific application (at a gas station, two frames per second are enough for the recording), it relieves the load both of the network and of the recording device (PC, server). MOBOTIX cameras can of course also minimize the recording independent of the live video, and the sound channel is recorded even with video recordings of two frames per second.

### No Storage Limit

The decentralized MOBOTIX concept enables the user to save around 10 times the number of cameras on a single storage device because the camera manages the recording itself (on a PC, server, NAS), thus reducing load on the device. For this reason, practically speaking, there is no memory limit for the entire system because theoretically, each camera is able to manage its own terabyte-sized storage device via the network. Another benefit of this concept is the use of affordable, reliable NAS drives that do not require any special software.

### Choose Your Storage Location

Every single MOBOTIX camera can be configured to record internally or externally via the network. If necessary, a USB stick can be connected by cable directly to the camera, but on the other side of the wall, where it cannot be stolen.

# ... Storage Solution

## SD Card Memory Reduces Storage Costs

MOBOTIX cameras are also able to store up to 64 GB of video in their integrated memory. Thanks to this high storage capacity and the option of recording only the sequences in which an event occurs, external storage devices such as hard drives are rarely required. This saves on storage devices and network infrastructure and reduces the maintenance cost of mechanical components such as hard drives or fans. The internal SD cards (flash memory) are digital and since they do not have mechanical components, they are maintenance-free.

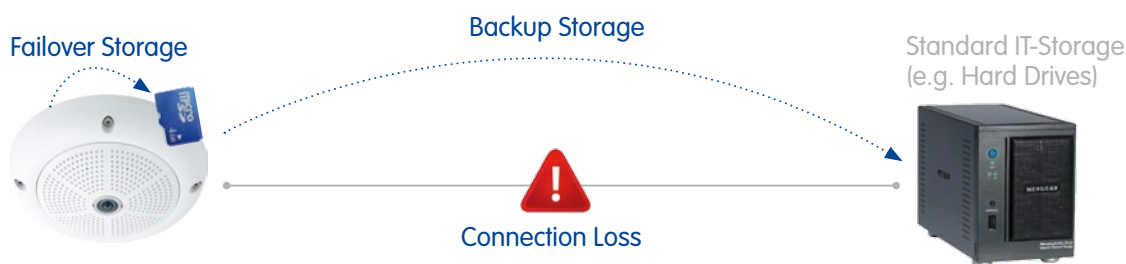


### A single 64 GB SD card has space for:

- 2 weeks of continuous recording from four gas station lanes
- 4 days of video in TV quality
- 200,000 clips of 10 s each in high-resolution
- 2 million images

## Ideal For Difficult Network Conditions Or WLAN

MOBOTIX cameras are ideal for difficult network conditions or WLAN connections because the internal flash storage bridges network failures or bandwidth fluctuations and synchronizes data when a connection is re-established with the external storage device.



**MOBOTIX systems are decentralized and secure, even without a PC for storage**

The option of backing up the internal memory at preset times (for example, at night) reduces the load on the network and, in many cases, enables shared use of the existing network infrastructure (available soon via software update).

## MOBOTIX Saves Only What Is Necessary

Only relevant image detail (fading out sky, ceiling etc.); only relevant events (e.g. movement in the image); long-term recording only with temporarily increased frame rate during event, but no storage limitations in the MOBOTIX system thanks to modern NAS storage technology.



## The **MOBOTIX** ...

Q24 Panorama: one camera - three simultaneous views



### Robust, Low-Maintenance Technology

The real added value of increased functionality is reflected in product features such as **long product life and robust construction**. In general, MOBOTIX cameras have no mechanical moving parts. This makes the cameras very resistant to wear and tear and reduces both maintenance costs and power consumption.

### Alarm Management And Forwarding

**Integrated sensors** enable MOBOTIX cameras to recognize when an event has occurred. If necessary, the cameras will respond immediately with an alarm tone and establish a direct video and sound connection to the headquarters or to a security guard.

### Absolute Data Security

The security barriers built into the camera are extremely secure. The camera images are only accessible to authorized persons and are encrypted via SSL when they are transferred over the network.

### Notification Of Failure

Your MOBOTIX video management system will automatically report any impairment or failure of single network components (e.g. cameras). This ensures maximum reliability and readiness for use.

### Subsequent Searches

Events rarely confine themselves to just one spot. So even when you are looking at an enlarged detail in live mode, it is always a full image that is recorded. And in this full image, any section can always be enlarged later or whenever necessary.



### MxControlCenter Software

In addition to the normal control center functions such as displaying and searching for events and reporting alarms, the professional video management software MxControlCenter from MOBOTIX also provides functions for efficient installation and management of large-scale camera systems.





# ... Added Security Value

## Sound Increases The Chance Of Detection

In the event of an alarm, MOBOTIX cameras can turn on their built-in microphones and record **lip-synchronous sound**. They are therefore an even greater help in analyzing a situation and easing clarification. In addition, the video system can be used for bidirectional communication via a speaker/microphone.

## No Problems With Backlighting

MOBOTIX cameras are not affected by glare from direct sunlight. They deliver meaningful, detailed images all the time because the camera software supports easy programming of **independent exposure windows** to cope with specific situations. This makes them ideal for front offices with large glass fronts.



## Vandalism-Proof Models

In critical environments or for outdoor use, it is often best to choose **vandalism-proof** MOBOTIX cameras. Their steel housing resists even severe attacks while the camera delivers a perfect picture of the attacker.

## Overview: MOBOTIX Security Benefits

- High-resolution, detailed camera images
- Direct connection to the camera in the event of an alarm
- Transfer of images without loss of time
- Greater deterrence due to improved chance of detection
- Secure system with authorized access only
- Authentic video and sound recording (lip-synchronous)



## Keeping Track Of All Alarms

The alarm search capability combines various functions that make it much easier to look for events. You can search for events across several cameras with automatically synchronized time tracking. The event that triggered an alarm can be analyzed in more detail in the event view.

# MOBOTIX Product Overview

## Allround



### M24M

from 598 €

- **Exchangeable lens camera** for indoor/outdoor use (IP66)
- **3MEGA-resolution** (QXGA, 2048x1536 pixels)
- Exchangeable lenses from Super Wide Angle (90°) to Tele (15°); optional with CSVario or Hemispheric (180°)
- With optional color sensor (1 lux at 1/60 s, 0.05 lux at 1 s exposure time) or with B/W sensor (0.1 lux at 1/60 s, 0.005 lux at 1 s exposure time)
- Microphone and speaker with full audio functionality (VoIP and SIP telephony with video)
- Universal wall/ceiling mount with concealed cabling
- Internal DVR (up to 64 GB), recording without network load

## DualNight



### M12D

from 1,098 €

- **Dual camera** with brilliant image color quality during the day and highest sensitivity at night thanks to **two separate image sensors for color and B/W**, for indoor and outdoor (IP65)
- **3MEGA-resolution** (QXGA, 2048x1536 pixels)
- B/W sensor (at night or IR lighting): 0.1 lux at 1/60 s, 0.005 lux at 1 s exposure time
- PIR sensor for motion detection in the dark
- Microphone and speaker with full audio functionality (VoIP and SIP telephony with video)
- Integrated switch functions (3 x In, 1 x Out), RS232
- Internal DVR (up to 64 GB), recording without network load

## MonoDome



### D24M

from 448 €

- **FixDome camera** for flexible mounting, for indoor and outdoor – IP54 (Basic)/IP65
- **Optional vandalism, On-Wall and In-Ceiling sets**
- **3MEGA-resolution** (QXGA, 2048x1536 pixels)
- Exchangeable lenses from Super Wide Angle (90°) to Tele (15°)
- With optional color sensor (1 lux at 1/60 s, 0.05 lux at 1 s exposure time) or with B/W sensor (0.1 lux at 1/60 s, 0.005 lux at 1 s exposure time)
- Internal DVR (up to 64 GB), recording without network load

## DualDome



### D14D

from 998 €

- **DualDome camera with two individually positionable image sensors** for indoor and outdoor use – IP65
- Optional lenses and sensors: Tele/wideangel lens, 180° function (2x90°), day/night
- **6MEGA resolution** (dual image with double QXGA, 4096x1536 pixels)
- High-performance hardware for high image rates up to 30 fps/MEGA
- PIR sensor for motion detection even in the dark
- Microphone and speaker with improved audio functionality (VoIP and SIP telephony, including SIP Video)
- MxBus and MiniUSB connection for expansion modules like I/O, GPS or RS232
- Internal DVR (up to 64 GB), weeks of recording without network load

\*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! • © MOBOTIX AG

### German Reference Projects

Commerzbank AG • Daimler AG • Deutsche Bahn Station & Service AG • EON Wasserkraft • Fraport AG • Le Méridien Parkhotel Frankfurt • MAN Logistics • Max Planck Institute for Chemical Ecology • Skoda Auto Deutschland GmbH • Casino Mainz, Trier, Bad Ems GmbH & Co. KG • World Cultural Heritage Site Völklinger Hütte • etc.



## Hemispheric

### Q24M

from 598 €



- **Hemispheric 360° allround view** for complete room monitoring
- Complete panorama view, ideal for access control
- Simultaneous Quad-display of all four room corners
- Digital continuous pan, tilt and zoom
- With optional color sensor (1 lux at 1/60 s, 0.05 lux at 1 s exposure time) or with B/W sensor (0.1 lux at 1/60 s, 0.005 lux at 1 s exposure time)
- Robust and maintenance-free, without mechanically moving parts
- Alarm function, speaker and microphone integrated
- Perfect design with low installation height, compatible with all D24 accessories
- Internal DVR (up to 64 GB), recording without network load

## Video IP Door Station

### T24

Available in 2011



- VoIP/SIP-enabled MOBOTIX door station
- The doorbell triggers a network connection to a video telephone or PC
- Superior overview thanks to the 3.1 megapixel hemispheric camera with vPTZ
- Automatically stores all activities outside the door with sound (triggered by doorbell, motion sensors or electrical contacts) Power supply via network cable or (already existing) bell wire
- Also precisely matches the modular door installation system from SIEDLE
- Modules can be integrated, such as doorbell buttons, motion sensors or lighting controls

## Mx2wire

Set Price 298 €



- Adapter set to transfer via Ethernet and PoE using a two-wire cable
- Two-wire cables are used to connect 10/100 MB Ethernet devices
- Ideal to connect e.g. a PC, WLAN, IP camera, IP telephone, IP door station
- Data transfer distance up to 500 meters; data rate is up to 30 Mbps, depending on distance
- Connected devices are supplied with up to 7 watts via PoE
- Simple installation in standard socket frames or surface-mounted sockets
- Developed and manufactured by MOBOTIX in Germany

## ExtIO

198 €



- Functional extension for all **MOBOTIX** cameras except M1, M10, D10 and V10
- Camera connection via USB or network possible
- 2 illuminated buttons
- 2 x In, 2 x Out
- Twilight sensor, PIR sensor, temperature sensor
- Microphone and loudspeaker

### International Reference Projects

Bahrain Defense Hospital (Bahrain) • Donbass Arena UEFA EURO 2012 Football Stadium (Ukraine) • Hudson River Park (New York) • Central Bank of Philippines • Orange Mobile (Romania) • Police of Portofino (Italy) • Republic Polytechnic (Singapore) • Sderbank of Russia (Ukraine) • Vatican Apostolic Library (Vatican City) • etc.



# MOBOTIX Product Overview

## CamIO

from 298 €



- Interface base unit for M12 cameras
- Low installation costs
- Available in **PoE**, **AC** or **ACPlus** version
- Capable of switching loads up to 1000 watts at 230 V (**AC** or **ACPlus**)
- Optional battery operation (**ACPlus**) to maintain camera functionality during power failures
- Excellent audio quality thanks to an integrated amplifier

## DevKit

from 948 €



- **Modular dual camera** system for individual installations
- Up to 30 cm long cable between sensor board and camera board (1 m with MxLink)
- Microphone and loudspeaker included
- Direct switching function (3 x In, 1 x Out), RS232
- Internal DVR (up to 64 GB) – no network load during recording
- Without sensor boards (to be ordered separately)
- Without MxLink Extension Set (to be ordered separately)

## MxLink

100 €



- DevKit Extension Set – 1 meter cable extension between sensor and DevKit board
- Tx module instead of ribbon cable for coupling to the sensor
- Rx module for coupling to the DevKit main board
- MxLink connection cable (1 m)
- Only available for DevKit
- Screw connection directly on the DevKit board and sensor (to be ordered separately)

## MxEasy

0 €



- Easy-to-use **video management software**, ideally designed for the wide range of functions of the MOBOTIX cameras
- Administration and display 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 surity environments
- Platform-independent format (Windows, MAC; Linux)

## MxCC

0 €



- Professional unrestricted version, included with every MOBOTIX camera
- High performance with 30 smooth video streams
- Synchronized and simultaneous event search on several cameras
- Image post-processing (contrast, zoom, distortion correction)
- Integration of analog & digital PTZ cameras
- Administration and display of any number of cameras

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# The Best For Less Than 800 €

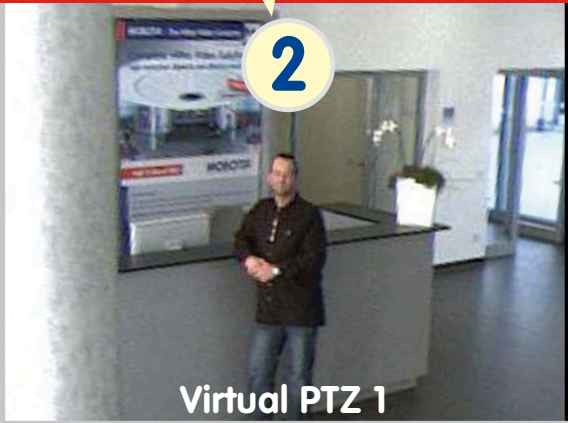


Excellent Value For Money

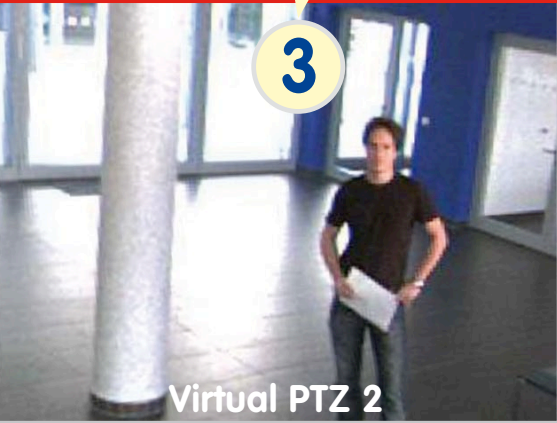
The Q24 Panorama: one camera - three simultaneous views



High-Resolution 180° Panorama



Virtual PTZ 1



Virtual PTZ 2

## Q24M Hemispheric camera incl. accessories

- MOBOTIX hemispheric camera Q24M-Sec: Replaces up to 4 conventional cameras
- 3.1 megapixel color sensor: 2048 x 1536 pixels
- Integrated DVR: 4 GB MicroSD card (50,000 panorama images or over 4 h video)
- Up to 30 fps in MEGA MxPEG-video stream recording, 20 fps in 3MEGA
- Professional video management software MxEasy or MxControlCenter can be downloaded for free



+



=

798€\*

Note: Delivered unassembled. Video is recorded directly in the camera without a PC. A standard PC is required either on site or via a DSL connection only for viewing/searching the images.

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Quality  
Made In Germany

Customer Service &  
Ordering Information  
+49 6302 9816-103

# Hemispheric IP Video Door Station

**Launch in 2011**

**180°**

Complete Panorama view from wall to wall and floor to ceiling

Security-Vision-Systems  
**MOBOTIX**

## Better Overview. Increased Security.

With the IP Video Door Station, MOBOTIX is introducing a new product line in the area of door communication and access control that supports the VoIP/SIP video telephone standard. The T24 records all events outside the house door with sound; automatically when the doorbell is rang, with movement in the image or upon triggering a contact.

### Complete video solution with powerful performance ...

- Complete Panorama view from wall to wall and from floor to ceiling thanks to Hemispheric technology
- Recording with sound of all activities in front of the door, automatically around the clock
- Two-way video worldwide via IP telephony or computer with remote door-opening function
- Integrated messaging features for leaving and retrieving messages directly at the door
- Keyless entry using PIN code or transponder with intelligent time control
- Simple installation, optional use of two existing bell wires instead of network cable

**... see separate brochure for building technology**

#### Complete Panorama View For Superior Overview

The high-resolution Hemispheric door camera with 3.1 megapixel image sensor and internal MicroSD storage allows monitoring of the entire entrance area. Complete Panorama view from wall to wall and floor to ceiling.








# Technical Specifications T24







The HiRes Video Company

**MOBOTIX**



T24 Modules				Available Colors
<p><b>T24M Hemispheric Camera</b></p>  <ul style="list-style-type: none"> <li>All-round view with high-resolution color images and vPTZ function</li> <li>Long-term recording, integrated speaker, microphone, doorbell and light buttons</li> </ul>	<p><b>Keypad</b></p>  <ul style="list-style-type: none"> <li>Keyless Entry per PIN code or transponder</li> <li>Integrated messaging feature</li> </ul>	<p><b>Backlit Information Module</b></p>  <ul style="list-style-type: none"> <li>Optional with Mx2wire unit (integrated)</li> <li>To connect the T24 via 2 bell wires (data and power)</li> </ul>	<p><b>Security Door Opener</b></p>  <ul style="list-style-type: none"> <li>Integrated doorbell</li> <li>Backup power supply with battery</li> <li>2 buttons, 2 LEDs</li> <li>2 signal inputs, 1 signal output</li> </ul>	<p><b>Colors</b></p>  <ul style="list-style-type: none"> <li>Available in white, metallic silver, dark gray, amber and black</li> <li>Modern, discreet design</li> </ul>

Accessories			
<p><b>Frames (Without Modules)</b></p>  <ul style="list-style-type: none"> <li>Available as On-Wall or In-Ceiling model</li> <li>Weatherproof (IP65)</li> <li>For 1 to 3 modules</li> <li>Including anti-theft protection</li> </ul>	<p><b>Siedle Vario Installation System</b></p>  <ul style="list-style-type: none"> <li>Can be combined with T24M and IO module</li> </ul>	<p><b>IO Module for Siedle Vario Installation Systems</b></p>  <ul style="list-style-type: none"> <li>Connection board joins T24M camera with original Siedle modules</li> <li>Simple installation inside Siedle frame</li> </ul>	<p><b>Grandstream VoIP Videophone</b></p>  <ul style="list-style-type: none"> <li>Video remote station for T24</li> <li>Comfortable camera operation, event research, door and light control</li> </ul>

## Simple And Cost-Effective Installation

The MOBOTIX IP Video Door Station can be connected and supplied with power via a network cable or – thanks to the Mx2wire technology – via two bell wires. Siedle Vario installation systems can also be upgraded with the T24M camera.



reddot design award  
honourable mention 2009

Q24 with in-ceiling mount



## Allround Easy. Allround Secure.

An elegant, ultra compact and weatherproof IP dome camera. Thanks to the 360° allround view to capture an entire room, a panorama function and a quad view to show images from four different angles simultaneously, the Q24 can be used in all new applications.

Original panorama image from Q24M

Mounted to a wall at 2.3 meters in a bank



### High-Resolution 180° Panorama

#### Powerful performance in complete video solutions ...

- Complete panorama view, ideal for access control
- Quad view to show images from four different angles simultaneously
- Digital, continuous zooming and panning
- Robust and maintenance-free, without mechanically moving parts
- Event-controlled, complete room recording directly in the camera (4 GB MicroSD card incl.)
- Alarm function, speaker and microphone integrated

**... starting at 598 €\* incl. video management software**

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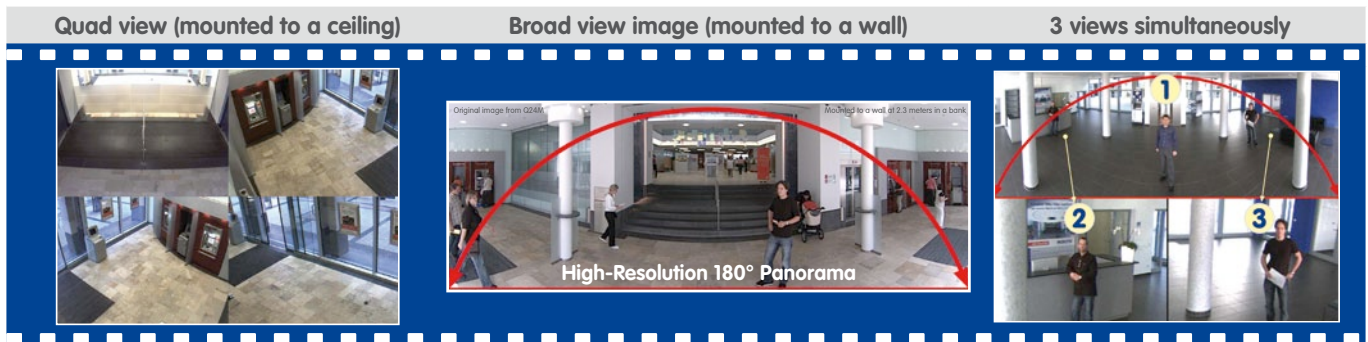
#### Q24 – The Perfect Overview

The Q24 provides a hemispherical 360° allround view with just one lens. Only one camera is needed to view all four corners of a room. The fish-eye effect, typical of this lens, can be digitally switched off already in the live images.

Technical Specifications Q24 Hemispheric	
<b>Models</b>	Basic, Sec, Sec-Night
<b>Lenses</b>	L11 (hemispherical), L22 (90° x 67°)
<b>Sensitivity</b>	Color: 1 lux (t=1/60 s), 0.05 lux (t=1/1 s) B/W: 0.1 lux (t=1/60 s), 0.005 lux (t=1/1 s)
<b>Sensor</b>	1/2" CMOS, progressive scan
<b>Max. image resolution</b>	Color: 2048 x 1536 (3MEGA), Black/White: 1280 x 960 (MEGA)
<b>Image format</b>	Free image format selection (from 160x120 to 2048x1536); with L11: PTZ view, Quad view, panorama broad view image, double panorama view, panorama focus with 3 views
<b>Max frame rate (M-JPEG) (Live/Recording)</b>	VGA: 25 fps, TV-PAL: 18 fps, MEGA: 8 fps, 3MEGA: 4 fps
<b>Video stream (MxPEG) (Live/Recording/Audio)</b>	VGA: 30 fps, TV-PAL: 30 fps, MEGA: 30 fps, 3MEGA: 20 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.264 (only Video-VoIP)
<b>Internal DVR</b>	MicroSD slot (camera-internal video recording up to 64 GB)
<b>External storage</b>	Directly on NAS and PC/Server without additional recording software
<b>Software (inclusive)</b>	Video management software MxEasy, Control room software MxControlCenter
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction (panorama image correction included), video sensor (motion detection)
<b>Virtual PTZ</b>	Digital Pan/Tilt/Zoom, continuous 8x zoom
<b>Alarm/Events</b>	Triggering of events by integrated multiple-window motion detection, temperature sensor, notification over email, FTP, IP telephony (VoIP, SIP), visual/acoustic alarm, pre- and post-alarm images
<b>Audio</b>	Integrated microphone and speaker, lip-synchronous audio, two-way speaker, audio recording
<b>Interfaces</b>	Ethernet 10/100, USB, MxBus
<b>Video phone</b>	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
<b>Security</b>	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certificates</b>	EMC (EN50121-4, EN55022, EN55024, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Power supply</b>	Power over Ethernet (IEEE 802.3af): PoE class variable depending on operating mode; power consumption; typ. 3 W; with PoE switch/MOBOTIX PoE - Adapter
<b>Operating conditions</b>	IP65 (DIN EN 60529), -30 to +60 °C (-22 to +140 °F)
<b>Dimensions</b>	Ø x H: 16 x 5 cm, Weight: ca. 450 g
<b>Standard delivery</b>	Housing (high-resistance composites – PBT-PC), white, incl. 360° lens, mounting parts, allen wrench, patch cable - 50 cm, manual, software, 4 GB MicroSD (except Basic)

Technical information subject to change without notice.

Q24 Hemispheric		Available Accessories Q24 Hemispheric Camera	
<p><b>Standard Housing</b> MX-Q24M-Sec</p>  <ul style="list-style-type: none"> <li>• Hemispherical allround view 360°</li> <li>• For wall and ceiling mounting</li> <li>• White or black</li> <li>• Robust and maintenance-free, without mechanically moving parts</li> </ul>	<p><b>Vandalism Housing</b> MX-Q24M-Sec-Vandal</p>  <ul style="list-style-type: none"> <li>• Stainless steel vandalism housing incl. lens protection</li> <li>• Polished, matt</li> </ul>	<p><b>In-Ceiling-Set</b> MX-OPT-IC</p>  <ul style="list-style-type: none"> <li>• In-Ceiling set incl. mounting parts</li> <li>• Easy mounting from front</li> <li>• Ø 150 mm installation dimension</li> <li>• White or black</li> <li>• Can be ordered with stainless steel cover (MX-OPT-IC-ESMA)</li> </ul>	<p><b>ExtIO Extension Module</b> MX-ExtIO</p>  <ul style="list-style-type: none"> <li>• Microphone/Speaker</li> <li>• PIR sensor for motion detection, temperature sensor</li> <li>• 2 signal inputs, 2 signal outputs, 2 illuminated buttons</li> </ul>



## Q24 – Quad View

A Q24 can replace four cameras and simultaneously show images from 4 different angles on the monitor. Each of the four views has a virtual PTZ function and can be adjusted separately. With the Q24, MOBOTIX yet again demonstrates the innovative power that makes the company a market leader for megapixel video security systems.



# DualNight Camera M12



## Two Eyes. 100,000 Reasons.

MOBOTIX dual lens, day/night camera with two separate HiRes image sensors is successfully in use in over 100,000 installations worldwide. Brilliant color for the day and extremely light-sensitive black/white sensor for the night. The intelligent and robust professional solution from MOBOTIX with no moving parts!



### MOBOTIX HiRes video replaces up to 6 cameras ...

- Two separate image sensors for day and night-time operation
- Integrated DVR with HiRes video recording
- Permanently fixed lenses at factory for extremely simple installation
- Robust, low-maintenance and with concealed cable duct
- Weatherproof from -30 to +60 °C, without need for heating (IP65)
- Digital continuous zoom, pan and tilt
- Integrated microphone, speaker and PIR motion detector

**... starting at 1,098 €\* incl. video management software**

\*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! • © MOBOTIX AG

#### M12 – HiRes Video Around The Clock

The M12 automatically selects – without high-maintenance mechanical switching – either the color sensor with daylight lens or the monochrome sensor with infrared lens for good real-color presentation during the day or high sensitivity at night.






# Technical Specifications M12


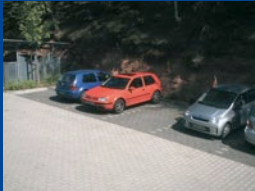


The HiRes Video Company

Technical Specifications M12 DualNight	
<b>Models</b>	Web, IT, IT-DNight, Sec, Sec-DNight, Sec-R16
<b>Lenses</b>	22 to 135 mm format, horizontal angle 90° to 15°
<b>Sensitivity</b>	Color: 1 lux (t=1/60 s), 0.05 lux (t=1/1 s) B/W: 0.1 lux (t=1/60 s), 0.005 lux (t=1/1 s)
<b>2 Sensors</b>	2 x 1/2" CMOS, progressive scan
<b>Max. image resolution</b>	Color: 2048 x 1536 (3MEGA), Black/White: 1280 x 960 (MEGA)
<b>Image format</b>	2048 x 1536, 1280 x 960, 1024 x 768, 800 x 600, 768 x 576 (D1), 704 x 576 (TV-PAL), 640 x 480, 384 x 288, 352 x 288, 320 x 240, 160 x 120; free image format selection (e.g. 1000 x 200 for skyline)
<b>Max frame rate (M-JPEG) (Live/Recording)</b>	VGA: 16 fps, TV-PAL: 12 fps, MEGA: 6 fps, 3MEGA: 4 fps
<b>Video stream (MxPEG) (Live/Recording/Audio)</b>	VGA: 30 fps, TV-PAL: 24 fps, MEGA: 14 fps, 3MEGA: 10 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.263 (only Video-VoIP)
<b>Internal DVR</b>	SD card (up to 64 GB), 16 GB internal (Sec-R16)
<b>External storage</b>	Directly on NAS and PC/Server without additional recording software
<b>Software (inclusive)</b>	Video management software MxEasy, Control room software MxControlCenter
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction, video sensor (motion detection)
<b>Virtual PTZ</b>	Digital Pan/Tilt/Zoom, continuous 8x zoom
<b>Alarm/Events</b>	Triggering of events by integrated multiple-window motion detection, external signal, temperature sensor, PIR, notification over email, FTP, IP telephony (VoIP, SIP), ISDN, signal output, visual/acoustic alarm, pre- and post-alarm images
<b>Audio</b>	Integrated microphone and speaker, Line-In/Line-Out, lip-synchronous audio, two-way speaker, audio recording
<b>Interfaces</b>	Ethernet 10/100, ISDN, RS232, 3 x In, 1 x Out
<b>Video phone</b>	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
<b>Security</b>	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certificates</b>	EMC (EN55022, EN55024, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Power supply</b>	Power over Ethernet (IEEE 802.3af; Class 0), with PoE switch/injector, typ. 4 W
<b>Operating conditions</b>	IP65 (DIN EN 60529), -30 to +60 °C (-22 to +140 °F)
<b>Dimensions</b>	WxDxL: 14.2 x 15.5 x 17 cm, Weight: ca. 850 g (incl. SecureFlex wall mount)
<b>Standard delivery</b>	Weatherproof housing (reinforced composites - PBT), white, SecureFlex wall/ceiling mount with turn/tilt mount and concealed cabling, covers RJ45 wall outlets, incl. 2 lenses, mounting parts, allen wrench, patch cable - 50 cm, manual, software

Technical information subject to change without notice.

M12 DualNight	Available Accessories M12 DualNight			
<b>Standard Housing</b> MX-M12D-Sec-DNight  <ul style="list-style-type: none"> <li>DualNight camera with two separate image sensors for day and night-time operation</li> <li>Automatic day/night switching</li> </ul>	<b>Pole Mount</b> MX-MH-SecureFlex-ESWS  <ul style="list-style-type: none"> <li>3 mm stainless steel, white</li> <li>2 stainless steel straps for pole diameter 60-180 mm, incl. mounting parts</li> </ul>	<b>PoE-Injector</b> MX-NPA-PoE-Set  <ul style="list-style-type: none"> <li>Power supply from electrical power and battery (12-42 V)</li> <li>For direct PC connection without a switch thanks to integrated crossover function</li> </ul>	<b>CamIO Extension Module</b> MX-CAMIO-PoE  <ul style="list-style-type: none"> <li>Interface for the connections of ext. sensors, devices (door contact, light, etc.)</li> <li>2 x relays (230V/500W), 2 x input, backup, audio</li> </ul>	<b>ExtIO Extension Module</b> MX-ExtIO  <ul style="list-style-type: none"> <li>Microphone/Speaker</li> <li>PIR sensor for motion detection, temperature sensor</li> <li>2 signal inputs, 2 signal outputs, 2 illuminated buttons</li> </ul>

	L22 Super Wide Angle 90°	L32 Wide Angle 60°	L43 Wide Angle 45°	L65 Tele 31°	L135 Tele 15°
<b>Lenses</b>					
	approx. 90°H x 67°V at 10 m appr: 20.0 x 13.3 m	approx. 60°H x 45°V at 10 m appr: 11.5 x 8.2 m	approx. 45°H x 34°V at 10 m appr: 8.2 x 6.1 m	approx. 31°H x 23°V at 10 m appr: 5.5 x 4.0 m	approx. 15°H x 11°V at 10 m appr: 2.6 x 1.9 m

\* not for M12 models

## M12 – HiRes Video Around The Clock

The M12 automatically selects – without high-maintenance mechanical switching – either the color sensor with daylight lens or the monochrome sensor with infrared lens for good real-color presentation during the day or high sensitivity at night.

# Allround Camera M24



## More Camera For Less. Guaranteed!

The M24M series from MOBOTIX offers extremely compact, cost-effective and exceptionally powerful allround cameras with the widest range of lenses, including panorama version. Fully equipped with IP66-certified housing and long-term internal storage on a MicroSD card!



### MOBOTIX HiRes video replaces up to 6 cameras ...

- Individual choice of lens: Tele/Wide Angle, day/night, CSVario and Hemispheric (180°)
- Wide range of applications from 180°-panorama webcam to video security
- Fast, simple installation on wall, pole or ceiling
- Integrated DVR with HiRes video recording without network load
- Robust, low-maintenance and weatherproof from -30 to +60 °C, (IP66)
- Digital continuous zoom, pan and tilt
- Integrated microphone and speaker with improved sound quality

**... starting at 598 €\* incl. video management software**

\*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! • © MOBOTIX AG

#### M24 – The Robust All-Rounder

The cost-effective and professional solution with exchangeable lenses for indoor and outdoor use. The lenses can be freely selected: from Hemispheric (180°) through Super Wide Angle (90°) to Telephoto lens (15°) and CSVario.



# Technical Specifications M24



The HiRes Video Company

Technical Specifications M24 Allround	
<b>Models</b>	IT, IT-Night, Sec, Sec-Night, Sec-CSVario, Sec-D11
<b>Lenses</b>	11 to 135 mm format, horizontal angle 180° to 15°
<b>Sensitivity</b>	Color: 1 lux (t=1/60 s), 0.05 lux (t=1/1 s) B/W: 0.1 lux (t=1/60 s), 0.005 lux (t=1/1 s)
<b>Sensor</b>	1/2" CMOS, progressive scan
<b>Max. image resolution</b>	Color: 2048 x 1536 (3MEGA), Black/White: 1280 x 960 (MEGA)
<b>Image format</b>	2048 x 1536, 1280 x 960, 1024 x 768, 800 x 600, 768 x 576 (D1), 704 x 576 (TV-PAL), 640 x 480, 384 x 288, 352 x 288, 320 x 240, 160 x 120; free image format selection (e.g. 1000 x 200 for skyline)
<b>Max frame rate (M-JPEG) (Live/Recording)</b>	VGA: 25 fps, TV-PAL: 18 fps, MEGA: 8 fps, 3MEGA: 4 fps
<b>Video stream (MxPEG) (Live/Recording/Audio)</b>	VGA: 30 fps, TV-PAL: 30 fps, MEGA: 30 fps, 3MEGA: 20 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.264 (only Video-VoIP)
<b>Internal DVR</b>	Slot for MicroSD card (up to 64 GB)
<b>External storage</b>	Directly on NAS and PC/Server without additional recording software
<b>Software (inclusive)</b>	Video management software MxEasy, Control room software MxControlCenter
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction, video sensor (motion detection)
<b>Virtual PTZ</b>	Digital Pan/Tilt/Zoom, continuous 8x zoom
<b>Alarm/Events</b>	Triggering of events by integrated multiple-window motion detection, external signal, temperature sensor, notification over email, FTP, IP telephony (VoIP, SIP), visual/acoustic alarm, pre- and post-alarm images
<b>Audio</b>	Integrated microphone and speaker, lip-synchronous audio, two-way speaker, audio recording
<b>Interfaces</b>	Ethernet 10/100, USB, MxBus
<b>Video phone</b>	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
<b>Security</b>	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certificates</b>	EMC (EN55022, EN55024, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Power supply</b>	Power over Ethernet (IEEE 802.3af): PoE class variable depending on operating mode; power consumption: typ. 3 W; with PoE switch/injector
<b>Operating conditions</b>	IP66 (DIN EN 60529), -30 to +60 °C (-22 to +140 °F)
<b>Dimensions (incl. wall mount)</b>	WxDxL: 14 x 23 x 19 cm, Weight: ca. 750 g
<b>Standard delivery</b>	Weatherproof housing (reinforced composites - PBT), white, wall/ceiling mount, mounting parts, patch cable - 50 cm, manual, software, 4 GB MicroSD card

Technical information subject to change without notice!

M24 Allround	Available Accessories M24 Allround				
<b>Standard Housing</b> MX-M24M-Sec-D22  <ul style="list-style-type: none"> <li>Allround camera with individual choice of lens</li> <li>Incl. wall/ceiling mount</li> <li>Simple installation with concealed cabling</li> </ul>	<b>Pole Mount</b> MX-MH-SecureFlex-ESWS  <ul style="list-style-type: none"> <li>3 mm stainless steel, white</li> <li>2 stainless steel straps for pole diameter 60-180 mm, incl. mounting parts</li> </ul>	<b>Glass Lens Cover</b> MX-M24M-OPT-LCSG  <ul style="list-style-type: none"> <li>Lens protection for extreme weather conditions</li> <li>Scratch-proof glass</li> <li>For all lenses with M14 thread</li> </ul>	<b>PoE-Injector</b> MX-NPA-PoE-Set  <ul style="list-style-type: none"> <li>Power supply from electrical power and battery (12-42 V)</li> <li>For direct PC connection without a switch thanks to integrated crossover function</li> </ul>	<b>Mx2wire Media Converter</b> MX-2wire-Set-PW  <ul style="list-style-type: none"> <li>Ethernet with PoE using two-wire cable</li> <li>Suitable for coaxial-cables, bell wires, power cables and more</li> </ul>	<b>ExtIO Extension Module</b> MX-ExtIO  <ul style="list-style-type: none"> <li>Microphone/Speaker</li> <li>PIR sensor for motion detection, temperature sensor</li> <li>2 signal inputs, 2 signal outputs, 2 illuminated buttons</li> </ul>

	L11 Fisheye 180°	L22 Super Wide Angle 90°	L32 Wide Angle 60°	L43 Wide Angle 45°	L65 Tele 31°	L135 Tele 15°	CSVario
Lenses							
	appr. 180° H x 160° V at 10m appr. endless x 110m	appr. 90° H x 67° V at 10m appr. 20.0 x 13.3m	appr. 60° H x 45° V at 10m appr. 11.5 x 8.2m	appr. 45° H x 34° V at 10m appr. 8.2 x 6.1m	appr. 31° H x 23° V at 10m appr. 5.5 x 4.0m	appr. 15° H x 11° V at 10m appr. 2.6 x 1.9m	appr. 73°-37° H x 158°-28° V at 10m appr. 14.8 - 6.7 x 11.1 - 5.0m

## M24 – The Robust All-Rounder

The cost-effective and professional solution with exchangeable lenses for indoor and outdoor use. The lenses can be freely selected: from Hemispheric (180°) through Super Wide Angle (90°) to Telephoto lens (15°) and CSVario.

# DualDome Camera D14



**One camera, two lenses.  
Seeing more is just not possible.**



D14D DualDome original image: Tele lens (left) and wide angle lens (right) – at the same time in one image

## MOBOTIX HiRes video replaces up to 6 cameras ...

- individual choice of lenses: tele/wide-angle, day/night, 180° panorama function
- integrated DVR (up to 64 GB) stores up to 520,000 HiRes images (6 days with 1 fps)
- simple installation with only one network cable (data & power/PoE)
- continuous digital pan, tilt and zoom (virtual PTZ function)
- highest audio quality thanks to new codec and echo elimination
- optimized interfaces: MxBus and MiniUSB for e.g. UMTS and GPS
- robust, maintenance-free, IP65 weatherproof, from -30 to +60 °C (-22 to +140 °F)

**... the powerful complete video system starting from 998 €\***

\*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! • © MOBOTIX AG

### D14 – Attractive fixed dome with two lenses

Two lenses, two HiRes image sensors, up to 64 GB internal storage and a dual image of a maximum of 6 megapixels make the D14D DualDome an efficient security solution: It is possible to secure two different areas using just one camera. All without vulnerable mechanical components!

# Technical Specifications D14



The HiRes Video Company

Technical Specifications D14 DualDome	
<b>Models</b>	IT, Sec, Sec-180°, Sec-Night-180°
<b>Lenses</b>	22 to 135 mm format, horizontal angle 90° to 15°
<b>Sensitivity</b>	Color: 1 lux (f=1/60 s), 0.05 lux (f=1/1 s) B/W: 0.1 lux (f=1/60 s), 0.005 lux (f=1/1 s)
<b>2 Sensors</b>	2 x 1/2" CMOS, progressive scan
<b>Max. image resolution</b>	Color: 2048 x 1536 (3MEGA), Black/White: 1280 x 960 (MEGA)
<b>Image format</b>	2048 x 1536, 1280 x 960, 1024 x 768, 800 x 600, 768 x 576 (D1), 704 x 576 (TV-PAL), 640 x 480, 384 x 288, 352 x 288, 320 x 240, 160 x 120; free image format selection (e.g. 1000 x 200 for skyline)
<b>Max frame rate (M-JPEG) (Live/Recording)</b>	VGA: 25 fps, MEGA: 12 fps, 3MEGA: 4 fps
<b>Video stream (MxPEG) (Live/Recording/Audio)</b>	VGA: 30 fps, MEGA: 30 fps, 3MEGA: 20 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.264 (only Video-VoIP)
<b>Internal DVR</b>	SD card (up to 64 GB)
<b>External storage</b>	Directly on NAS and PC/Server without additional recording software
<b>Software (inclusive)</b>	Video management software MxEasy, Control room software MxControlCenter
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction, video sensor (motion detection)
<b>Virtual PTZ</b>	Digital Pan/Tilt/Zoom, continuous 8x zoom
<b>Alarm/Events</b>	Triggering of events by integrated multiple-window motion detection, external signal, temperature sensor, PIR, notification over email, FTP, IP telephony (VoIP, SIP), signal output, visual/acoustic alarm, pre- and post-alarm images
<b>Audio</b>	Integrated microphone and speaker, Line-In/Line-Out, lip-synchronous audio, two-way speaker, audio recording
<b>Interfaces</b>	Ethernet 10/100, RS232 (via MxPatchBox), MiniUSB, MxBus
<b>Video phone</b>	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
<b>Security</b>	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certificates</b>	EMC (EN55022, EN55024, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Power supply</b>	Power over Ethernet (IEEE 802.3af, Class 0), Netpower-Adapter, typ. 4 W
<b>Operating conditions</b>	IP54/IP65 (without/with wall mount), -30 to +60 °C (-22 to +140 °F)
<b>Dimensions</b>	Ø x H: 20.1 x 11 cm, Weight: ca. 650 g
<b>Standard delivery</b>	Housing (high-resistance composites – PBT-PC), white, shockproof polycarbonate dome (transparent), free choice of 2 lens modules, mounting parts, allen wrench, patch cable - 50 cm, manual, software

Technical information subject to change without notice!

D14 DualDome	Available Accessories D14 DualDome				
<b>Standard Housing</b> MX-D14Di-Sec  <ul style="list-style-type: none"> <li>FixDome camera with two independent, individually adjustable image sensors</li> <li>Simultaneously records an entire room &amp; selected details</li> </ul>	<b>Vandalism Set</b> MX-D14D-Vandal-Kit  <ul style="list-style-type: none"> <li>Dome (3 mm Polyc.)</li> <li>Stainless steel vandalism housing in polished, matt or in powder-coated white, silvergray or black</li> </ul>	<b>Wall Mount</b> MX-WH-Dome  <ul style="list-style-type: none"> <li>Weatherproof (IP65) for D14-DualDome</li> <li>Covers up RJ45 outlets and Outdoor PatchBox</li> <li>Space for expansion modules (WLAN)</li> </ul>	<b>Pole and Corner Mount</b> MX-MH-Dome-ESWS  <ul style="list-style-type: none"> <li>3 mm stainless steel, white</li> <li>2 stainless steel straps for pole diameter 60-180 mm, incl. mounting parts</li> </ul>	<b>PoE-Injector</b> MX-NPA-PoE-Set  <ul style="list-style-type: none"> <li>Power supply from electrical power and battery (12-42 V)</li> <li>For direct PC connection without a switch thanks to integrated crossover function</li> </ul>	<b>ExtIO Extension Module</b> MX-ExtIO  <ul style="list-style-type: none"> <li>Microphone/Speaker</li> <li>PIR sensor for motion detection, temperature sensor</li> <li>2 signal inputs, 2 signal outputs, 2 illuminated buttons</li> </ul>

	L22 Super Wide Angle 90°	L32 Wide Angle 60°	L43 Wide Angle 45°	L65 Tele 31°	L135 Tele 15°
Lenses					
	approx. 90°H x 67°V at 10 m appr: 20.0 x 13.3 m	approx. 60°H x 45°V at 10 m appr: 11.5 x 8.2 m	approx. 45°H x 34°V at 10 m appr: 8.2 x 6.1 m	approx. 31°H x 23°V at 10 m appr: 5.5 x 4.0 m	approx. 15°H x 11°V at 10 m appr: 2.6 x 1.9 m

## D14 – Attractive fixed dome with two lenses

Two lenses, two HiRes image sensors, up to 64 GB internal storage and a dual image of a maximum of 6 megapixels make the D14D DualDome an efficient security solution: It is possible to secure two different areas using just one camera. All without vulnerable mechanical components!



# MonoDome Camera D24



## Fits In. Watches Out.

Inconspicuous surveillance with state-of-the-art technology. The D24 FixDome from MOBOTIX adapts perfectly to any task. Exchangeable lenses, various mounting and configuration options including vandalism set support unlimited application possibilities.



### MOBOTIX HiRes video replaces up to 6 cameras ...

- Attractively designed FixDome camera featuring exchangeable lenses from Tele to Wide Angle
- Numerous installation options both indoor and outdoor
- On-wall set with space for extension modules (battery, UMTS, WLAN, etc.)
- Integrated DVR with HiRes video recording (4 GB MicroSD card incl.)
- Robust, low-maintenance and weatherproof from -30 to +60 °C (-22 to +140 °F), (IP65)
- Digital continuous zoom, pan and tilt
- Can be upgraded to an intercom system with the MOBOTIX ExtIO module

**... starting at 448 €\* incl. video management software**

\*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! • © MOBOTIX AG

#### D24 – Compact, Cost-Efficient And With High Resolution

The many, easy-to-replace lens options of the D24 provide a tailored solution for different types of applications. A robust dome camera (IP65) with optional vandal-proof, wall-mount and in-ceiling installation sets.




# Technical Specifications D24



The HiRes Video Company

Technical Specifications D24 MonoDome	
<b>Models</b>	Basic, IT, IT-Night, Sec, Sec-Night
<b>Lenses</b>	22 to 135 mm format, horizontal angle 90° to 15°
<b>Sensitivity</b>	Color: 1 lux (t=1/60 s), 0.05 lux (t=1/1 s) B/W: 0.1 lux (t=1/60 s), 0.005 lux (t=1/1 s)
<b>Sensor</b>	1/2" CMOS, progressive scan
<b>Max. image resolution</b>	Color: 2048 x 1536 (3MEGA), B/W: 1280 x 960 (MEGA)
<b>Image format</b>	2048 x 1536, 1280 x 960, 1024 x 768, 800 x 600, 768 x 576 (D1), 704 x 576 (TV-PAL), 640 x 480, 384 x 288, 352 x 288, 320 x 240, 160 x 120; free image format selection (e.g. 1000 x 200 for skyline)
<b>Max frame rate (M-JPEG) (Live/Recording)</b>	VGA: 25 fps, TV-PAL: 18 fps, MEGA: 8 fps, 3MEGA: 4 fps
<b>Video stream (MxPEG) (Live/Recording/Audio)</b>	VGA: 30 fps, TV-PAL: 30 fps, MEGA: 30 fps, 3MEGA: 20 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.264 (only Video-VoIP)
<b>Internal DVR</b>	MicroSD slot (camera-internal video recording up to 64 GB)
<b>External storage</b>	Directly on NAS and PC/Server without additional recording software
<b>Software (inclusive)</b>	Video management software MxEasy, Control room software MxControlCenter
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction, video sensor (motion detection)
<b>Virtual PTZ</b>	Digital Pan/Tilt/Zoom, continuous 8x zoom
<b>Alarm/Events</b>	Triggering of events by integrated multiple-window motion detection, external signal, temperature sensor, notification over email, FTP, IP telephony (VoIP, SIP), visual/acoustic alarm, pre- and post-alarm images
<b>Audio</b>	Optional via ExtIO, lip-synchronous audio, two-way speaker, audio recording, video VoIP supported
<b>Interfaces</b>	Ethernet 10/100, USB, MxBus
<b>Video phone</b>	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
<b>Security</b>	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certificates</b>	EMC (EN50121-4, EN55022, EN55024, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Power supply</b>	Power over Ethernet (IEEE 802.3af): PoE class variable depending on operating mode; power consumption: typ. 3 W; with PoE switch/MOBOTIX PoE adapter
<b>Operating conditions</b>	IP65 (DIN EN 60529), -30 to +60 °C (-22 to +140 °F)
<b>Dimensions</b>	Ø x H: 16 x 8.6 cm, Weight: ca. 350 g
<b>Standard delivery</b>	Housing (high-resistance composites – PBT), white, shockproof polycarbonate dome (transparent), free choice of lenses, mounting parts, allen wrench, patch cable - 50 cm, manual, software, 4 GB MicroSD (except Basic)

Technical information subject to change without notice.

Available Accessories D24 MonoDome					
<b>In-Ceiling Set</b> MX-OPT-IC  <ul style="list-style-type: none"> <li>Consists of in-ceiling mount and mounting parts</li> <li>Easy mounting from front</li> <li>Ø 150 mm installation dimension</li> <li>It can be ordered with stainless steel cover</li> </ul>	<b>On-Wall Set</b> MX-OPT-AP  <ul style="list-style-type: none"> <li>Consists of On-Wall mount and mounting parts</li> <li>Protects the cabling</li> <li>165 mm x 37 mm</li> </ul>	<b>Vandalism Set</b> MX-D24M-Vandal-ESMA  <ul style="list-style-type: none"> <li>Reinforced dome (3 mm Polyc.)</li> <li>Stainless steel vandalism housing in polished, matt or in powder-coated white, silvergray or black</li> </ul>	<b>Outdoor Wall Mount</b> MX-OPT-WH  <ul style="list-style-type: none"> <li>Weatherproof (IP65)</li> <li>Covers RJ45 wall outlets and Outdoor PatchBox</li> <li>Space for expansion modules (WLAN)</li> </ul>	<b>Pole Mount</b> MX-OPT-MH  <ul style="list-style-type: none"> <li>3 mm stainless steel, white</li> <li>2 stainless steel straps for pole diameter 60-180 mm, incl. mounting parts</li> </ul>	<b>ExtIO Extension Module</b> MX-ExtIO  <ul style="list-style-type: none"> <li>Microphone/Speaker</li> <li>PIR sensor for motion detection, temperature sensor</li> <li>2 signal inputs, 2 signal outputs, 2 illuminated buttons</li> </ul>

	L22 Super Wide Angle 90°	L32 Wide Angle 60°	L43 Wide Angle 45°	L65 Tele 31°	L135 Tele 15°
Lenses					
	approx. 90°H x 67°V at 10 m appr: 20.0 x 13.3 m	approx. 60°H x 45°V at 10 m appr: 11.5 x 8.2 m	approx. 45°H x 34°V at 10 m appr: 8.2 x 6.1 m	approx. 31°H x 23°V at 10 m appr: 5.5 x 4.0 m	approx. 15°H x 11°V at 10 m appr: 2.6 x 1.9 m

## D24 – Compact, Cost-Efficient And With High Resolution

The many, easy-to-replace lens options of the D24 provide a tailored solution for different types of applications. A robust dome camera (IP65) with optional vandal-proof, wall-mount and in-ceiling installation sets.



# Creative Solution M12-DevKit



**Your Ideas. Our Solution.**

M12 DevKit is the ideal solution for all non-standard applications. It is a high-resolution dual IP camera with two separate image sensors that has been designed specifically for customized, concealed installations. With the M12 DevKit, there are no limits to your ideas.



## MOBOTIX HiRes video replaces up to 6 cameras ...

- Dual-camera module system for individual built-in solutions
- Up to two separately linked, freely selectable image sensors
- Optional: MxLink extension set with 1 meter cable
- Integrated DVR functionality: slot for SD card
- Digital continuous pan, tilt and zoom
- Integrated microphone and loudspeaker
- Video management software download free of charge

**... starting at 1,098 €\* (DevKit board incl. protective housing, 1 sensor & 1 lens)**

\*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! • © MOBOTIX AG

### DevKit – Developer Kit

The DevKit is a flexible, modular system that can be tailored to the individual needs of customers. An ideal solution for ATMs (automated teller machines) and for concealed surveillance of cashier zones, hotel reception areas and bank counters, for example.



# Technical Specifications M12-DevKit

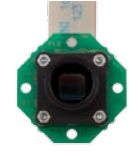


The HiRes Video Company

**MOBOTIX**

Technical Specifications M12-DevKit	
<b>Models</b>	Sec
<b>Lenses</b>	22 to 135 mm format, horizontal angle 90° to 15°, CS lenses can also be used (see CS adapter)
<b>Sensitivity</b>	Color: 1 lux (t=1/60 s), 0.05 lux (t=1/1 s) B/W: 0.1 lux (t=1/60 s), 0.005 lux (t=1/1 s)
<b>Sensor</b>	1x or 2 x 1/2" CMOS, progressive scan
<b>Max. image resolution</b>	Color: 2048 x 1536 (3MEGA), Black/white: 1280 x 960 (MEGA)
<b>Image format</b>	2048 x 1536, 1280 x 960, 1024 x 768, 800 x 600, 768 x 576 (D1), 704 x 576 (TV-PAL), 640 x 480, 384 x 288, 352 x 288, 320 x 240, 160 x 120, Free image format selection (e.g. 1000 x 200 for skyline)
<b>Max frame rate (M-JPEG) (Live/Recording)</b>	VGA: 16 fps, TV-PAL: 12 fps, MEGA: 6 fps, 3MEGA: 4 fps
<b>Video stream (MxPEG) (Live/Recording/Audio)</b>	VGA: 30 fps, TV-PAL: 24 fps, MEGA: 14 fps, 3MEGA: 10 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.263 (only Video-VoIP)
<b>Internal DVR</b>	SD card (up to 64 GB)
<b>External storage</b>	Directly on NAS and PC/Server without additional recording software
<b>Software (inclusive)</b>	Video management software MxEasy, Control room software MxControlCenter
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction, video sensor (motion detection)
<b>Virtual PTZ</b>	Digital pan/tilt/zoom, continuous 8x zoom
<b>Alarm/Events</b>	Triggering of events by integrated multiple-window motion detection, external signal, temperature sensor, notification over email, FTP, IP telephony (VoIP, SIP), ISDN, signal output, visual/acoustic alarm, pre- and post-alarm images
<b>Audio</b>	Integrated microphone and loudspeaker, line-in/line-out, lip-synchronous audio and audio recording
<b>Interfaces</b>	Ethernet 10/100, ISDN, RS232, 3 x In, 1 x Out
<b>Video phone</b>	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
<b>Security</b>	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certificates</b>	EMC (living environments, industry)
<b>Power supply</b>	Power over Ethernet (IEEE 802.3af; Class 0)
<b>Operating conditions</b>	IP65 (DIN EN 60529), -30 to +60 °C, (-22 to +140 °F)
<b>Dimensions</b>	WxDxH: 14.8 x 5.1 x 21.1 cm, Weight: approx. 610 g (DevKit + housing), approx. 100 g (board)
<b>Standard delivery</b>	Transparent board housing, software manual, patch cable - 50 cm, assembly key, mounting screws; sensor boards, lenses and MxLink must be ordered separately!

Technical information subject to change without notice.

M12-DevKit	Available Accessories M12-DevKit				
<p><b>DevKit in protective housing</b> MX-M12-DevKit-Board</p>  <ul style="list-style-type: none"> <li>• Dual-camera board</li> <li>• Up to two image sensors</li> <li>• Day and night operation</li> <li>• Protective housing (IP65)</li> </ul>	<p><b>DevKit extension (1m)</b> MX-Link-1</p>  <ul style="list-style-type: none"> <li>• DevKit extension set; extending the sensor connection up to 1 m</li> <li>• Tx module, Rx module and 1 m connection cable</li> </ul>	<p><b>Sensor boards (M14)</b> Color: MX-M12-DevKit-C B/W: MX-M12-DevKit-BW</p>  <ul style="list-style-type: none"> <li>• Color sensor: 2048x1536 Sensitivity: max. 0.05 lux (1/1 s)</li> <li>• B/W sensor: 1280x960 Sensitivity: max. 0.005 lux (1/1 s)</li> <li>• M14 lens mount</li> <li>• 30 cm ribbon cable (12")</li> </ul>	<p><b>Sensor in aluminum block (M14)</b> MX-M12-DevKit-M14-C MX-M12-DevKit-M14-BW</p>  <ul style="list-style-type: none"> <li>• Color sensor: 2048x1536</li> <li>• B/W sensor: 1280x960</li> <li>• M14 lens mount</li> <li>• Aluminum block</li> <li>• 30 cm ribbon cable (12")</li> </ul>	<p><b>Sensor in aluminum block (CS)</b> MX-M12-DevKit-CS-C MX-M12-DevKit-CS-BW</p>  <ul style="list-style-type: none"> <li>• Color sensor: 2048x1536</li> <li>• B/W sensor: 1280x960</li> <li>• CS lens mount</li> <li>• Aluminum block</li> <li>• 30 cm ribbon cable (12")</li> </ul>	<p><b>CSVario lens</b> MX-OPTCS-L24-54</p>  <ul style="list-style-type: none"> <li>• Vario lens, in connection with CS lens mount</li> <li>• Corresponds roughly to a 24 to 54 mm camera</li> </ul>

	L22 Super Wide Angle 90°	L32 Wide Angle 60°	L43 Wide Angle 45°	L65 Tele 31°	L135 Tele 15°
Lenses					
	approx. 90°H x 67°V at 10 m appr: 20.0 x 13.3 m	approx. 60°H x 45°V at 10 m appr: 11.5 x 8.2 m	approx. 45°H x 34°V at 10 m appr: 8.2 x 6.1 m	approx. 31°H x 23°V at 10 m appr: 5.5 x 4.0 m	approx. 15°H x 11°V at 10 m appr: 2.6 x 1.9 m

## For Even Greater Flexibility: MxLink

The sensor boards are located separately from the camera board. The new, optional MxLink extension set makes it now possible to position any image sensor up to one meter (3.3 feet) away from the camera.



## ExtIO Opens New Horizons For Cameras

With its new ExtIO module, MOBOTIX leads the way to completely new technology. The ExtIO can be connected to a camera either directly via USB or through a network and extends the MOBOTIX camera to a high-performance audio unit with microphone and speaker, infrared motion detector, temperature sensor and additional switch in-/outputs. Door and gate intercom systems are easy to implement using the two illuminated buttons.

### Technical Specifications ExtIO

<b>Interfaces</b>	USB, Ethernet 10/100 Mbps	<b>Status display</b>	2 status LEDs
<b>Audio</b>	Microphone and speaker, integrated amplifier and equalizer, Line-In/Line-Out	<b>Certificates</b>	EMC (EN55022, EN55024, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Input contacts</b>	2 signal inputs (galvanically separated) Safety extra-low voltage, SELV (AC/DC) Switching voltage of ExtIO provided (also external)	<b>Operating conditions</b>	IP65 (DIN EN 60529)
<b>Output contacts</b>	2 signal outputs (potential-free) Safety extra-low voltage, SELV (AC/DC), up to 100 mA	<b>Operating temperature</b>	-30 to +60 °C (-22 to +140 °F) (DIN EN 50125)
<b>Sensors</b>	Passive IR motion detector (PIR) Temperature sensor for environmental temperature Illumination sensor 2 illuminated buttons	<b>Power supply</b>	USB, Power over Ethernet (IEEE 802.3af; Class 2)
		<b>Power input</b>	typ. 1 W
		<b>Dimensions</b>	Ø x H: 16 x 4,5 cm, compatible with D24 accessories
		<b>Weight</b>	ca. 430 g
		<b>Standard delivery</b>	Housing (high-resistance composites – PBT), white, cable grommets, mounting parts, manual

Technical information subject to change without notice!

### ExtIO

#### ExtIO Extension Module MX-ExtIO



- Microphone/Speaker
- PIR sensor for motion detection, temperature sensor
- 2 signal inputs, 2 signal outputs, 2 illuminated buttons

### Available Accessories For ExtIO

#### In-Ceiling Set MX-OPT-IC



- Consists of in-ceiling mount and mounting parts
- Easy mounting from front
- Ø 150 mm installation dimension
- Can be ordered with stainless steel cover

#### On-Wall Set MX-OPT-AP



- Consists of on-wall mount and mounting parts
- Concealed cabling
- 165 mm x 37 mm

#### Outdoor Wall Mount MX-OPT-WH



- Weatherproof (IP65) for ExtIO
- Covers RJ45 wall outlets
- Space for expansion modules (WLAN)

#### Pole Mount MX-OPT-MH



- 3 mm stainless steel, white
- 2 stainless steel straps for pole diameter 60-180 mm, incl. mounting parts

## ExtIO – Intelligent Technology For Combined Systems

The practical and functional ExtIO module can be easily combined with all MOBOTIX cameras (except M1, M10, D10 und V10) and enables implementing door and gate intercom systems cost efficiently.



### More Control With CamIO

The CamIO input/output module is the ideal platform for door intercoms. Doorbell buttons and alarm contacts can be connected to the inputs, and door openers, exterior lights, etc., can be controlled via the outputs. The CamIO is designed for switching loads up to 2 x 500 watts (230 V). Thanks to the powerful integrated loudspeaker, door opener relay and two switch inputs, this module is ideal for setting up video door stations on for example, remote building entrances.

### Technical Specifications CamIO

<b>Models</b>	PoE	<b>Certificates</b>	EMC (EN50428, EN55022, EN55024, EN60669-2-1, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Interfaces</b>	Ethernet, line-in, speaker-out, 2 input contacts, 2 output contacts	<b>Protection class</b>	IP65 (DIN EN 60529)
<b>Audio/Intercom</b>	Microphone input and powerful loudspeaker, integrated audio amplifier (2.5W/8Ω)	<b>Operating temperature</b>	-30 to +60 °C (-22 to +140 °F) (DIN EN 50125)
<b>Input contacts</b>	2 galvanically isolated input contacts: 8V to 230V AC, 11V to 325V DC (depending on model), min. 2mA	<b>Power supply</b>	Power over Ethernet (PoE); 230V (AC); 230V/battery (ACplus)
<b>Output contacts</b>	2 output contacts (230V/500W AC, 230V/240W DC per relay), of which one isolated relay, 2nd relay switches the current voltage of power supply. Minimum voltage 5 V, minimum power 100mA, maximum voltage 230 V AC (depending on model)	<b>Dimensions</b>	WxHxD: 13.6 x 16.2 x 6.7 cm
		<b>Weight</b>	PoE: 470 g, AC: 470 g, ACplus: 850 g (appr.)
		<b>Standard delivery</b>	Durable plastic housing (PBT), white; wall arm for mounting camera and speaker, speaker cable, assembly parts, cable seals, manual

Technical information subject to change without notice!

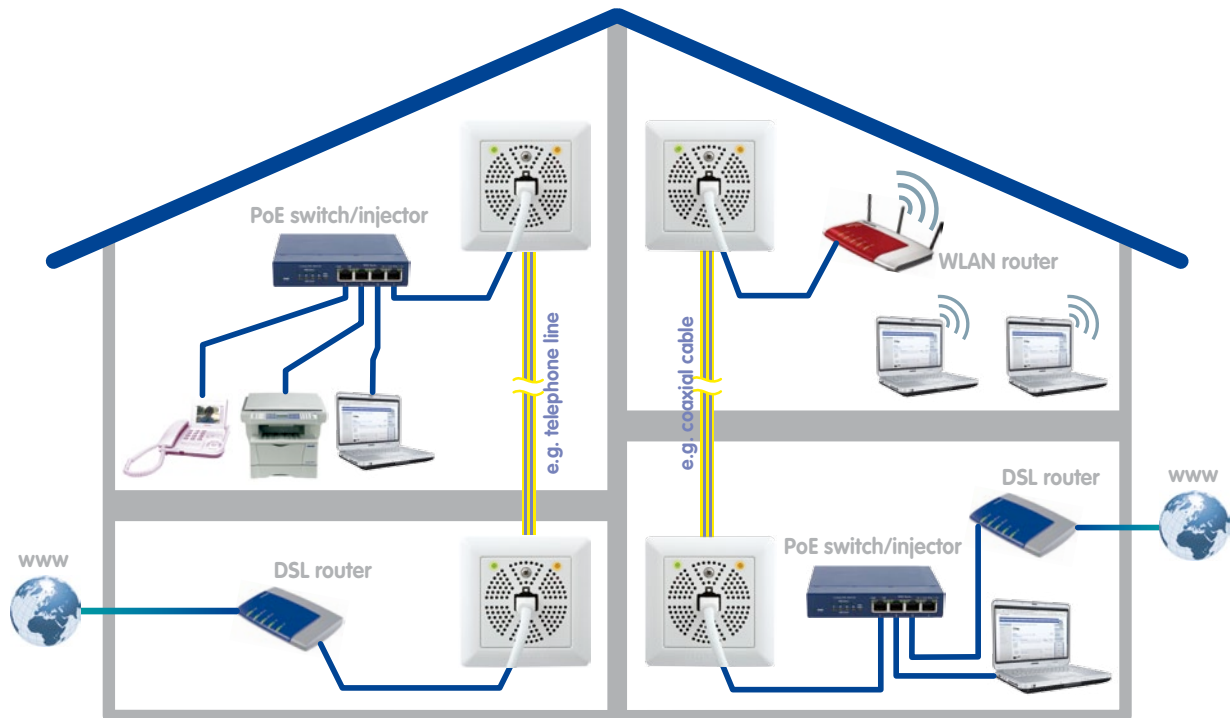
CamIO	Available Accessories For CamIO	Compatible Camera
<p><b>CamIO Functional Extension</b> MX-CamIO-PoE</p>  <ul style="list-style-type: none"> <li>• 2 input/output contacts each</li> <li>• Audio amplifier</li> <li>• Microphone input</li> </ul>	<p><b>Connection Cable</b> MX-CamIO-OPT-M12</p>  <ul style="list-style-type: none"> <li>• Connection cable (50 cm)</li> </ul>	<p><b>Pole Mount</b> MX-MH-SecureFlex-ESWS</p>  <ul style="list-style-type: none"> <li>• 3 mm stainless steel, powder-coated</li> <li>• 2 stainless steel straps for pole diameters of 60–180 mm, including assembly parts</li> </ul>
		<p><b>DualNight M12</b> MX-M12D-Sec</p>  <ul style="list-style-type: none"> <li>• DualNight camera with two separate image sensors for daytime/nighttime operation</li> <li>• Automatic daytime/night-time switching</li> </ul>

### Certified Safety

The CamIO module is certified by the German Association for Electrical, Electronic and Information Technologies (VDE). The module can be powered either via the network cable (PoE) or locally from a 230 Volt power source.

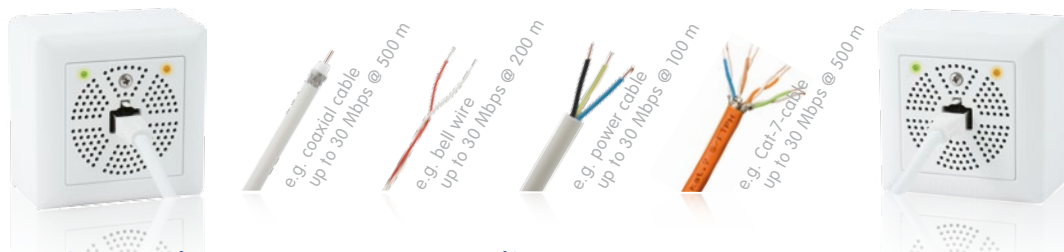


# Mx2wire Media Converter



## Ethernet with PoE. Using 2-Wires.

Mx2wire turns an existing two-wire cable into a modern multimedia cable – simply, quickly and cost-effectively.



### Mx2wire – The MOBOTIX Media Converter ...

- Mx2wire transfers both data and power according to the PoE standard!
- Mx2wire does not require a separate power connection!
- Mx2wire nuses existing telephone, power or antenna cables and therefore eliminates the enormous amount of time and effort normally required for cabling!
- Mx2wire is a quality product designed and manufactured entirely in Germany!







**... only 298 €\* for the complete set (two Mx2wire devices with three exchangeable panel frames)**

\*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! • © MOBOTIX AG


#### Multiple Application Possibilities

Mx2wire can also connect a PC to the internet via an unused telephone line or an antenna cable. A set of devices, consisting of two Mx2wire units, costs 298 Euro. The system was developed by MOBOTIX, manufactured in Germany and can also be used in the new IP door intercom systems.


Technical Specifications Mx2wire Media Converter	
<b>Models</b>	Mx2wire set pure white (additional models in development)
<b>Data transfer speed</b>	up to 30 Mbps (depending on distance); see table below
<b>Max. range</b>	500 m (up to 30 Mbps)
<b>Interfaces</b>	<b>Front:</b> RJ45 (Fast Ethernet, PoE), DC jack <b>Rear:</b> Screw terminals to attach the two-wire cable
<b>Certificates</b>	EMC (EN55022, EN55024, EN61000-6-1, FCC part15B, AS/NZS3548)
<b>Power supply</b>	Mx2wire modules are supplied via PoE (3 watts per module) PoE (IEEE802.3af – based on capacity, 7 watts to PoE device)
<b>Status display</b>	<b>Status LED 1:</b> Network connection, power supply <b>Status LED 2:</b> Active data transfer via AB wire, user connected to the opposite side
<b>Weight</b>	100 g
<b>Operating temperature</b>	-30 to +60 °C (-22 to +140 °F)
<b>Dimensions</b>	80 mm x 80 mm x 38 mm ( <b>flush-mounted model</b> ) 80 mm x 80 mm x 45 mm ( <b>on-wall model</b> )
<b>Standard delivery</b>	Mx2wire media converter set (color: pure white), mounting parts, various panel frames, manual

Mx2wire	Components (Shipped With Every Mx2wire Set)				
<p><b>Mx2wire set</b> MX-2wire-Set-PW (pure white)</p>  <p>An existing Mx2wire set contains all components necessary to set up an Ethernet connection using a two-wire cable (telephone, coaxial, bell wire, Cat. 7).</p> <p>Each one is supplied with a sender/receiver unit, as well as accessories for flush-mounting or on-wall assembly. The set is available in pure white at present.</p>	<p><b>Circuit board</b></p>  <ul style="list-style-type: none"> <li>• 2x Mx2wire circuit board and housing</li> </ul>	<p><b>Panel frames</b></p>  <ul style="list-style-type: none"> <li>• 6x white concave, convex and flat frames (two of each)</li> </ul>	<p><b>Front panels</b></p>  <ul style="list-style-type: none"> <li>• 2x front panel</li> </ul>	<p><b>Surface-mounted Socket</b></p>  <ul style="list-style-type: none"> <li>• 2x white surface-mounted socket</li> </ul>	<p><b>Accessories</b></p>  <ul style="list-style-type: none"> <li>• 2x cavity socket</li> <li>• Mounting parts</li> </ul>

## Comparative Tables For The Transfer Rates Of Data And Power

Antenna or coaxial cable	Thickness	Length		
		50 m	100m	500 m
	0.6 mm Inner conductor	Data: 30 Mbps PoE Class: 2	Data: 30 Mbps PoE Class: 1	Data: 30 Mbps PoE Class: keine

Telephone line/bell wire	Thickness	Length		
		50 m	100 m	200 m
		0.6 mm	Data: 30 Mbps PoE Class: 2	Data: 30 Mbps PoE Class: 1
0.8 mm	Data: 30 Mbps PoE Class: 2	Data: 30 Mbps PoE Class: 2	Data: 30 Mbps PoE Class: 1	

Installation cable	Thickness	Length		
		50 m	100 m	200 m
	1.5 mm <sup>2</sup>	Data: 30 Mbps PoE Class: 2	Data: 30 Mbps PoE Class: 2	Data: 25 Mbps PoE Class: 2

Network installation	Type	Length (Use of All 4 Wire Pairs: Combine 4x white and 4x colored and attach wire-end sleeves)		
		200 m	300 m	500 m
		Cat-7	Data: 30 Mbps PoE Class: 2	Data: 30 Mbps PoE Class: 2



## Multifunctional. The Compact PoE Injector.

### The MOBOTIX power adapter set ...

- Direct PC connection without a switch thanks to the crossover function
- Connects to electrical power using a power supply unit
- Suitable for use with power sources from 12 V to 42 V
- Suitable for all PoE-supplied (MOBOTIX) network cameras and Mx2wire
- Suitable for all standard PoE devices conforming to IEEE 802.3af (e.g., VoIP phone, netbooks, routers etc.)
- Suitable for international use thanks to interchangeable power supply adapters
- Can be connected to the end device using an Ethernet cable up to 100 m in length

**... all for just 98 €\***

### A Quality MOBOTIX Product Made In Germany

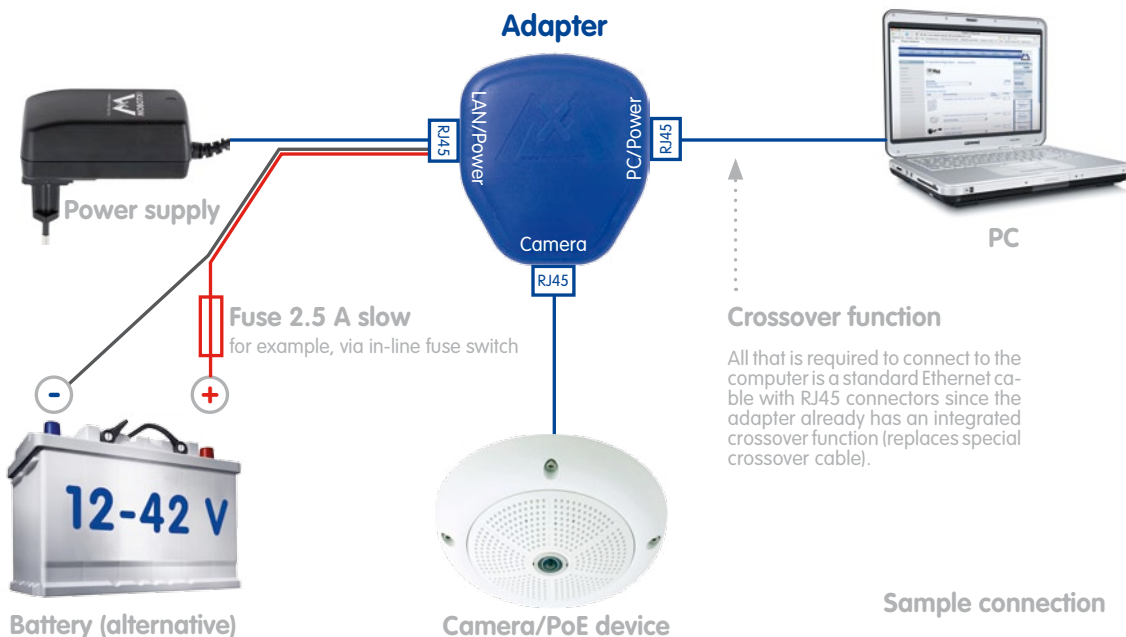
The MOBOTIX Network Power Adapter Set (NPA-PoE set) is a high-quality, robust, ultra-compact and, above all, multifunctional PoE injector with three connectors (network, camera/PoE device, PC) and a universal power supply unit with interchangeable adapter plugs.



# Technical Specifications NPA-PoE Set



The HiRes Video Company



## Technical Specifications - Power Supply Unit

<b>Connections</b>	1x RJ45 (for adapter), 1x network (up to 4x interchangeable adapter plugs)	<b>Dimensions</b>	LxWxH: 8.5 x 5.2 x 3.9 cm (without adapter plug)
<b>Nominal data - input</b>	100 V to 240 V AC, 50 to 60 Hz/400 mA	<b>Weight</b>	Approx. 165 g (incl. 1x interchangeable adapter plug)
<b>Nominal data - output</b>	24 V DC/750 mA	<b>Special features</b>	Suitable for international use thanks to broad input voltage range and interchangeable power supply adapter plugs (no tools required)
<b>Ambient temperature</b>	0 to +40 °C (32 to 104 °F)	<b>Certificates</b>	VDE 60950, AS/NZS60950, CSA60950, PSE-JQA 60950

## Technical Specifications - Adapter

<b>Connections</b>	3x RJ45 (LAN/Power, PC/Power, Camera)	<b>Dimensions</b>	LxWxH: 6 x 5.5 x 2.7 cm
<b>Nominal data - input</b>	12 V to 42 V DC	<b>Weight</b>	Approx. 40 g
<b>Nominal data - output</b>	48 V DC; PoE conforming to IEEE 802.3af: PoE classes, 1 to 3 (max. 12.95 W) 16 V input voltage or higher, PoE classes 1 and 2 (max. 6.49 W) at 12 V to 16 V input voltage	<b>Special features</b>	Integrated crossover function for direct connection to PC; connection to power supply or battery 12 V or higher, status LED with four states (green/orange/red/off)
<b>Disabling</b>	Less than 10 V input voltage	<b>Certificates</b>	EMC (EN55022, EN55024, EN61000-6-1), FCC part15B, AS/NZS3548)
<b>Ambient temperature</b>	-30 to +60 °C (-22 to 140 °F)		

## NPA-PoE-Set - Scope Of Delivery And Components

<p><b>NPA-PoE-Set</b> MX-NPA-PoE plus plug</p>	<p><b>Plug EU</b> MX-NPA-PoE-EU MX-NPA-PoE-INT</p>	<p><b>Plug UK</b> MX-NPA-PoE-INT</p>	<p><b>Plug US</b> MX-NPA-PoE-INT</p>	<p><b>Plug AUS</b> MX-NPA-PoE-INT</p>	<p><b>Accessories</b></p> <p><b>Connection cable to battery</b> MX-CBL-NPA-BAT-2</p> <ul style="list-style-type: none"> <li>Length 2 m</li> <li>1x port RJ45</li> <li>1x port +/-</li> </ul>
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Technical information subject to change without notice!



## Professional IP Video Management

The MxControlCenter (MxCC) is the video management software developed by MOBOTIX with all the functions necessary for a professional security control center. Especially when combined with the decentralized, high-resolution MOBOTIX cameras, MxCC is able to perform at its full capacity: a complete security system from one source and at an unbeatably low total cost.

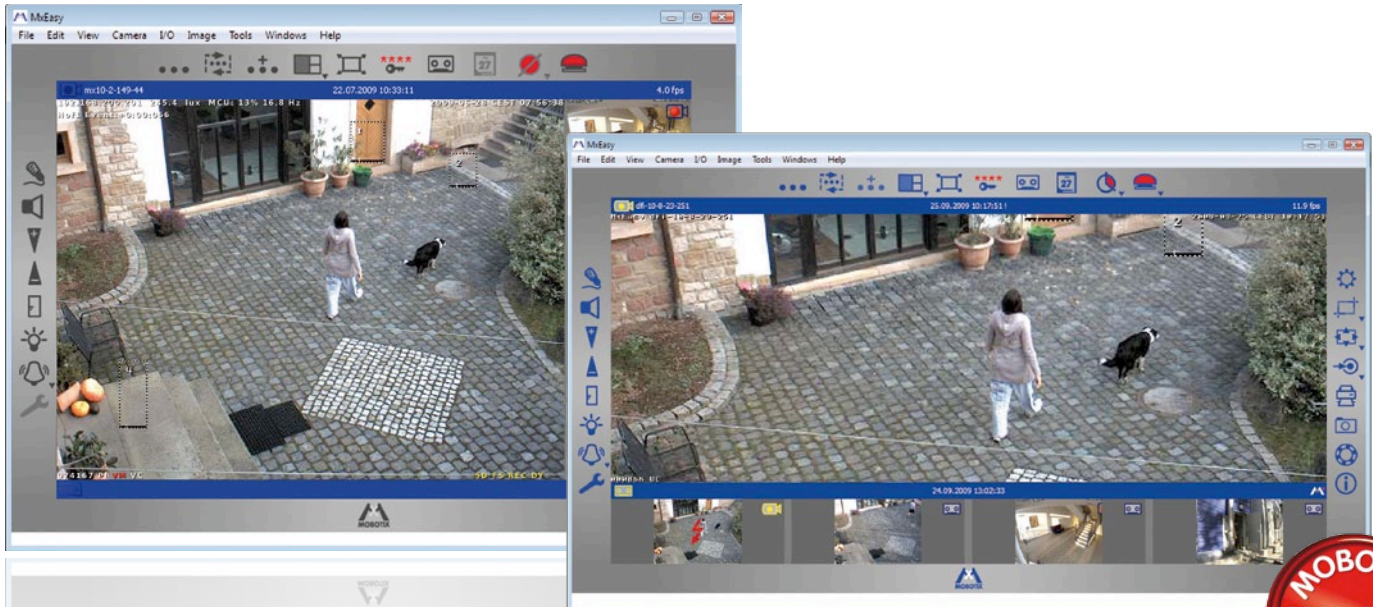
### Developed for professional surveillance solutions:

- Proven many times over worldwide in the most demanding video applications
- Unlimited number of users and cameras, no license fees
- Individual user interface, adaptable to each individual user
- Simplest installation and complete use on any standard PC
- Convenient layout editor for integrating real building plans
- Integration of conventional network and analog cameras as well
- Export recordings as AVI and Quicktime video with sound

**... see separate brochure for MxCC**

### Absolutely Free Of Charge

The software can be downloaded free of charge from [www.mobotix.com](http://www.mobotix.com).  
([www.mobotix.com/other/Support/Software-Downloads/MxControlCenter](http://www.mobotix.com/other/Support/Software-Downloads/MxControlCenter))



## Intuitive Control Software For All MOBOTIX Cameras

MxEasy from MOBOTIX is an innovative video software that enables the user to access the most important features of the cameras using its intuitive, easy-to-use interface. This device is especially practical thanks to the automatic camera search in the network, automatic configuration and quick-start recording, which can be activated at the push of a button. The user-friendly design allows up to 16 cameras to be managed and displayed. All settings selected in MxEasy (e.g., image section, zoom, brightness, volume, microphone sensitivity, image storage, signal outputs) can be used immediately and are stored instantly in the configuration of the corresponding camera.

### Simple operation of the most important camera features:

- Cameras can be installed without additional knowledge about networks
- Supports up to 16 MOBOTIX cameras
- Time- or event-controlled recording
- Time-controlled recording based on motion detection, image brightness and microphone




### Absolutely Free Of Charge




MxEasy is available for Microsoft Windows, MacOS X, and Linux/UNIX operating systems as a free download from [www.mobotix.com](http://www.mobotix.com). ([www.mobotix.com/other/Support/Software-Downloads/MxEasy](http://www.mobotix.com/other/Support/Software-Downloads/MxEasy))




# HiRes IP Cameras And Accessories

## Camera Models M24




			
<b>Model:</b>	<b>M24M-IT-D22</b>	<b>M24M-Sec</b>	<b>M24M-Sec-Night</b>
<b>Indoor/Outdoor:</b>	In/Outdoor, IP66, -30 to +60 °C	In/Outdoor, IP66, -30 to +60 °C	In/Outdoor, IP66, -30 to +60 °C
<b>Lenses:</b> (eq. 35mm)	Super Wide Angle (22mm, 90°, F 2.0),	Super Wide Angle (22mm, 90°, F 2.0), 32mm, 43mm, 65mm, 135mm	Super Wide Angle (22mm, 90°, F 2.0), 32mm, 43mm, 65mm, 135mm
<b>Resolution:</b>	VGA (640x480 pixels), color	3MEGA (2048x1536 pixels), color	MEGA (1280x960 pixels), B/W
<b>Pan/Tilt/Zoom:</b>	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)
<b>Frame Rate (max.):</b>	30 fps CIF • 30 fps VGA	30 fps VGA • 30 fps MEGA • 20 fps 3MEGA	30 fps VGA • 30 fps MEGA
<b>Sensitivity:</b>	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	0,1 lux (f=1/60s) • 0.005 lux (f=1/1s)
<b>Interfaces:</b>	Ethernet 10/100, USB, MxBus	Ethernet 10/100, USB, MxBus	Ethernet 10/100, USB, MxBus
<b>Internal DVR:</b>	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card
<b>Audio/Telephony:</b>	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)
<b>Power Sup. • In/Out:</b>	PoE (IEEE 802.3af) • Via ExtIO	PoE (IEEE 802.3af) • Via ExtIO	PoE (IEEE 802.3af) • Via ExtIO
<b>Software Features:</b>	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search
<b>Arming • Triggering:</b>	365 day schedule • Multiple events	365 day schedule • Multiple events	365 day schedule • Multiple events
<b>External Storage:</b>	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS
<b>Prices:</b>	<b>598 EUR (MX-M24M-IT-D22)</b>	<b>798 EUR (MX-M24M-Sec)</b>	<b>798 EUR (MX-M24M-Sec-Night)</b>




			
<b>Model:</b>	<b>M24M-Sec-CSVario</b>	<b>M24M-Sec-D11</b>	<b>M24M-Sec-Night-N11</b>
<b>Indoor/Outdoor:</b>	In/Outdoor, IP66, -30 to +60 °C	In/Outdoor, IP66, -30 to +60 °C	In/Outdoor, IP66, -30 to +60 °C
<b>Lenses:</b> (eq. 35mm)	CSVario 24-54 (24 bis 54mm) F1.6-2.3	Hemispheric (11mm, 360°, F 2.0)	Hemispheric (11mm, 360°, F 2.0)
<b>Resolution:</b>	3MEGA (2048x1536 pixels), color	3MEGA (2048x1536 pixels), color	MEGA (1280x960 pixels), SW
<b>Pan/Tilt/Zoom:</b>	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)
<b>Frame Rate (max.):</b>	30 fps VGA • 30 fps MEGA • 20 fps 3MEGA	30 fps VGA • 30 fps MEGA • 20 fps 3MEGA	30 fps CIF • 30 fps VGA • 30 fps MEGA
<b>Sensitivity:</b>	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	0,1 lux (f=1/60sec) • 0.005 lux (f=1/1sec)
<b>Interfaces:</b>	Ethernet 10/100, USB, MxBus	Ethernet 10/100, USB, MxBus	Ethernet 10/100, USB, MxBus
<b>Internal DVR:</b>	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card
<b>Audio/Telephony:</b>	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)
<b>Power Sup. • In/Out:</b>	PoE (IEEE 802.3af) • Via ExtIO	PoE (IEEE 802.3af) • Via ExtIO	PoE (IEEE 802.3af) • Via ExtIO
<b>Software Features:</b>	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search
<b>Arming • Triggering:</b>	365 day schedule • Multiple events	365 day schedule • Multiple events	365 day schedule • Multiple events
<b>External Storage:</b>	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS
<b>Prices:</b>	<b>998 EUR (MX-M24M-Sec-CSVario)</b>	<b>858 EUR (MX-M24M-Sec-D11)</b>	<b>858 EUR (MX-M24M-Sec-Night-N11)</b>

## Accessories M22/M24



<b>Part Name:</b>	 <b>Ethernet patch cable for M24 (1/2/5/10 m)</b>	 <b>M12/M22/M24-Pole Mount</b>	 <b>ExtIO</b>
<b>Description:</b>	<ul style="list-style-type: none"> <li>• 2x RJ45 plug with special MOBOTIX seal</li> <li>• 1, 2, 5 or 10 m long</li> </ul>	<ul style="list-style-type: none"> <li>• 3mm stainless steel, white</li> <li>• Pole mounting</li> <li>• Pole circumference from 60 to 180mm</li> <li>• 2 x stainless steel straps, screws and washers included</li> </ul>	<ul style="list-style-type: none"> <li>• Each with 2 In- and Output contacts 8-24V</li> <li>• Microphone with adjustable volume control, speaker, status LEDs</li> <li>• USB interface, illumination sensor</li> <li>• Temperature sensor, 2 buttons</li> </ul>
<b>Prices:</b>	<b>from 8 EUR (MX-OPT-CBL-LAN-1)</b>	<b>78 EUR (MX-MH-SecureFlex-ESWS)</b>	<b>198 EUR (MX-ExtIO)</b>

**Camera Models M12**

			
<b>Model:</b>	<b>M12M-Web-D43</b>	<b>M12D-IT-DNight-D43N43</b>	<b>M12D-Sec-D22D135</b>
<b>Indoor/Outdoor:</b>	In/Outdoor, IP65, -30 to +60 °C	Dual lens Outdoor, IP65, -30 to +60 °C	Dual lens Outdoor, IP65, -30 to +60 °C
<b>Lenses:</b> (eq. 35mm)	Wide Angle only (43mm, F 2.0), no other lens available	2 Wide Angles (43mm, F 2.0), DNight: automatic Day/Night switching	Super Wide Angle (22mm, 90°, F 2.0), tele (135mm, F 2.5)
<b>Resolution:</b>	3MEGA (2048x1536 pixels), color	2 x VGA (je 640x480 pixels), color & B/W	2 x 3MEGA (je 2048x1536 pixels), color
<b>Pan/Tilt/Zoom:</b>	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)
<b>Frame Rate (max.):</b>	30 fps CIF • 30 fps VGA • 14 fps MEGA	30 fps CIF • 30 fps VGA	30 fps CIF • 30 fps VGA • 14 fps MEGA
<b>Sensitivity:</b>	1 lux (t=1/60s) • 0.05 lux (t=1/1s)	0,1 lux (t=1/60s) • 0.005 lux (t=1/1s)	1 lux (t=1/60s) • 0.05 lux (t=1/1s)
<b>Interfaces:</b>	ISDN, Ethernet 10/100	ISDN, Ethernet 10/100, RS232	ISDN, Ethernet 10/100, RS232
<b>Internal DVR:</b>	./.	Up to 64 GB with SD card	Up to 64 GB with SD card
<b>Audio/Telephony:</b>	./.	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)
<b>Power Sup. • In/Out:</b>	PoE or MX30V • ./.	PoE or MX30V • 3xIN, 1xOUT	PoE or MX30V • 3xIN, 1xOUT
<b>Software Features:</b>	Logo generator, FTP, E-Mail	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search
<b>Arming • Triggering:</b>	7 day schedule • Reduced	365 day schedule • Multiple events	365 day schedule • Multiple events
<b>External Storage:</b>	FTP, triggered by events/time schedule	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS
<b>Prices:</b>	<b>798 EUR (MX-M12M-Web-D43)</b>	<b>1,098 EUR (MX-M12D-IT-DNight-D43N43)</b>	<b>1,248 EUR (MX-M12D-Sec-D22D135)</b>

			
<b>Model:</b>	<b>M12D-Sec-DNight-D43N43</b>	<b>M12D-Sec-DNight-D22N22</b>	<b>M12D-Sec-R16</b>
<b>Indoor/Outdoor:</b>	Dual lens Outdoor, IP65, -30 to +60 °C	Dual lens Outdoor, IP65, -30 to +60 °C	Dual lens Outdoor, IP65, -30 to +60 °C
<b>Lenses:</b> (eq. 35mm)	2 Wide Angles (43mm, F 2.0), DNight: automatic Day/Night switching	2 Super Wide Angles (22mm, F 2.0), DNight: automatic Day/Night switching	Super Wide Angle (22mm, 90°, F 2.0), 43mm, 135mm
<b>Resolution:</b>	1 x 3MEGA (2048x1536 pixels), color 1 x MEGA (1280x960 pixels), B/W	1 x 3MEGA (2048x1536 pixels), color 1 x MEGA (1280x960 pixels), B/W	1 x 3MEGA (2048x1536 pixels), color 1 x MEGA (1280x960 pixels), B/W
<b>Pan/Tilt/Zoom:</b>	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)
<b>Frame Rate (max.):</b>	30 fps CIF • 30 fps VGA • 14 fps MEGA	30 fps CIF • 30 fps VGA • 14 fps MEGA	30 fps CIF • 30 fps VGA • 14 fps MEGA
<b>Sensitivity:</b>	0,1 lux (t=1/60s) • 0.005 lux (t=1/1s)	0,1 lux (t=1/60s) • 0.005 lux (t=1/1s)	1 lux (t=1/60s) • 0.05 lux (t=1/1s)
<b>Interfaces:</b>	ISDN, Ethernet 10/100, RS232	ISDN, Ethernet 10/100, RS232	ISDN, Ethernet 10/100, RS232
<b>Internal DVR:</b>	Up to 64 GB with SD card	Up to 64 GB with SD card	16 GB internal flash installed
<b>Audio/Telephony:</b>	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)
<b>Power Sup. • In/Out:</b>	PoE or MX30V • 3xIN, 1xOUT	PoE or MX30V • 3xIN, 1xOUT	PoE or MX30V • 3xIN, 1xOUT
<b>Software Features:</b>	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search
<b>Arming • Triggering:</b>	365 day schedule • Multiple events	365 day schedule • Multiple events	365 day schedule • Multiple events
<b>External Storage:</b>	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS
<b>Prices:</b>	<b>1,248 EUR (MX-M12D-Sec-DNight-D43N43)</b>	<b>1,348 EUR (MX-M12D-Sec-DNight-D22N22)</b>	<b>from 1,498 EUR (MX-M12D-Sec-R16)</b>




**Accessories M12**




	
<b>Part Name:</b>	<b>Cam-IO-PoE/AC/ACplus</b>
<b>Description:</b>	<ul style="list-style-type: none"> <li>Interface for external sensors and equipment (door contact, light, etc.)</li> <li>2xRelais-Out, 2xInput, backup, audio</li> <li>Power supply via network / 230V / 230V battery buffered</li> <li>Compatible with M12 cameras</li> </ul>
<b>Prices:</b>	<b>from 298 EUR (MX-CAMIO)</b>
	<ul style="list-style-type: none"> <li>3mm stainless steel, white</li> <li>Pole mounting</li> <li>Pole circumference from 60 to 180mm</li> <li>2 x stainless steel straps, screws and washers included</li> </ul>
	<b>78 EUR (MX-MH-SecureFlex-ESWS)</b>



# HiRes IP Cameras And Accessories

## Camera Models D24/Q24

			
<b>Model:</b>	<b>D24Mi-Basic-D22</b>	<b>D24M-IT-D22</b>	<b>D24M-Sec/Sec-Night</b>
<b>Indoor/Outdoor:</b>	Indoor, IP54, -20 to + 50 °C	In/Outdoor, IP65, -30 to +60 °C	In/Outdoor, IP65, -30 to +60 °C
<b>Lenses:</b> (eq. 35mm)	Super Wide Angle (22mm, 90°, F 2.0)	Super Wide Angle (22mm, 90°, F 2.0)	Super Wide Angle (22mm, 90°, F 2.0), 32mm, 43mm, 65mm, 135mm
<b>Resolution:</b>	VGA (640x480 pixels), color	VGA (640x480 pixels), color	D24M-Sec: 3MEGA (2048x1536 pixels), color D24M-Sec-Night: MEGA (1280x960 pixels), B/W
<b>Pan/Tilt/Zoom:</b>	./.	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)
<b>Frame Rate (max.):</b>	16 fps CIF • 16 fps VGA	30 fps CIF • 30 fps VGA	30 fps CIF • 30 fps VGA • 30 fps MEGA
<b>Sensitivity:</b>	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	1 lux (f=1/60sec) • 0.05 lux (f=1/1sec), color; 0,1 lux (f=1/60sec) • 0.005 lux (f=1/1sec), BW
<b>Interfaces:</b>	Ethernet 10/100	Ethernet 10/100, USB, MxBus	Ethernet 10/100, USB, MxBus
<b>Internal DVR:</b>	./.	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card
<b>Audio/Telephony:</b>	./.	Bidirectional, IP telephony (VoIP via ExtIO)	Bidirectional, IP telephony (VoIP via ExtIO)
<b>Power Sup. • In/Out:</b>	PoE (IEEE 802.3af) • ./.	PoE (IEEE 802.3af) • Via ExtIO	PoE (IEEE 802.3af) • Via ExtIO
<b>Software Features:</b>	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search
<b>Arming • Triggering:</b>	./.	365 day schedule • Multiple events	365 day schedule • Multiple events
<b>External Storage:</b>	./.	Up to 1 TB on PC/Server/NAS	Up to 1 Terabyte on PC/Server/NAS
<b>Prices:</b>	<b>448 EUR (MX-D24Mi-Basic-D22)</b>	<b>548 EUR (MX-D24M-IT-D22)</b>	<b>748 EUR (MX-D24M-Sec/Sec-Night)</b>

			
<b>Model:</b>	<b>Q24M-Basic</b>	<b>Q24M-Sec</b>	<b>Q24M-Sec-Night</b>
<b>Indoor/Outdoor:</b>	Indoor, IP54, -30 to +60 °C	In/Outdoor, IP65, -30 to +60 °C	In/Outdoor, IP65, -30 to +60 °C
<b>Lenses:</b> (eq. 35mm)	Hemispheric (11mm, 360°, F 2.0), Super Wide Angle (22mm, 90°, F 2.0)	Hemispheric (11mm, 360°, F 2.0), Super Wide Angle (22mm, 90°, F 2.0)	Hemispheric (11mm, 360°, F 2.0), Super Wide Angle (22mm, 90°, F 2.0)
<b>Resolution:</b>	VGA (640x480 pixels), color	3MEGA (2048x1536 pixels), color	MEGA (1280x960 Pixel), B/W
<b>Pan/Tilt/Zoom:</b>	Digital PTZ via MxControlCenter	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)
<b>Frame Rate (max.):</b>	16 fps CIF • 16 fps VGA	30 fps MEGA • 20 fps 3MEGA	30 fps CIF • 30 fps VGA • 30 fps MEGA
<b>Sensitivity:</b>	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	0,1 lux (f=1/60sec) • 0.005 lux (f=1/1sec)
<b>Interfaces:</b>	Ethernet 10/100	Ethernet 10/100, USB, MxBus	Ethernet 10/100, USB, MxBus
<b>Internal DVR:</b>	./.	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card
<b>Audio/Telephony:</b>	./.	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)
<b>Power Sup. • In/Out:</b>	PoE (IEEE 802.3af) • ./.	PoE (IEEE 802.3af) • Via ExtIO	PoE (IEEE 802.3af) • Via ExtIO
<b>Software Features:</b>	Distortion correction in MxCC, FTP, E-mail, video alarm manag., Multiview	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search
<b>Arming • Triggering:</b>	./.	365 day schedule • Multiple events	365 day schedule • Multiple events
<b>External Storage:</b>	./.	Up to 1 Terabyte on PC/Server/NAS	Up to 1 Terabyte on PC/Server/NAS
<b>Prices:</b>	<b>598 EUR (MX-Q24Mi-Basic-D11)</b>	<b>798 EUR (MX-Q24M-Sec-D11)</b>	<b>798 EUR (MX-Q24M-Sec-Night-N11)</b>




## Accessories D22/D24/Q22/Q24 (More accessories at [www.mobotix.com](http://www.mobotix.com))

<b>Part Name:</b>	 <b>D22/D24 Vandalism Set</b>	 <b>D22/D24/Q22/Q24 On-Wall Set IP65</b>	 <b>D22/D24/Q22/Q24 10° On-Wall Set IP65</b>
<b>Description:</b>	<ul style="list-style-type: none"> <li>Reinforced dome (3mm Polyc.)</li> <li>Stainless steel vandalism ring (matt, polished or white, silver, black powder-coated)</li> </ul>	<ul style="list-style-type: none"> <li>On-wall mount incl. mounting parts</li> <li>Concealed cabling</li> <li>Ø 165x37mm</li> <li>Excluding camera</li> </ul>	<ul style="list-style-type: none"> <li>Includes on-wall mount and assembly parts for installing a camera at a 10° tilt angle</li> <li>Excluding camera</li> </ul>
<b>Prices:</b>	<b>98 EUR (MX-D24M-Vandal)</b>	<b>98 EUR (MX-OPT-AP)</b>	<b>98 EUR (MX-OPT-AP-10DEG)</b>
<b>Part Name:</b>	 <b>D22/D24/Q22/Q24 In-Ceiling Set</b>	 <b>D22/D24/Q22/Q24 Wall Mount</b>	 <b>D22/D24/Q22/Q24 Pole and Corner Mount</b>
<b>Description:</b>	<ul style="list-style-type: none"> <li>In-ceiling set incl. mounting parts</li> <li>Easy mounting from front</li> <li>Also available in black</li> <li>Excluding camera</li> </ul>	<ul style="list-style-type: none"> <li>Weather protection (IP65) for D22, D24, Q22, Q24 cameras</li> <li>Covers RJ45 wall outlets</li> <li>Space for expansion modules (WLAN)</li> </ul>	<ul style="list-style-type: none"> <li>3mm stainless steel, powder-coated</li> <li>Pole diam.: 60 to 180mm</li> <li>Incl. mounting supplies</li> </ul>
<b>Prices:</b>	<b>98 EUR (MX-OPT-IC)</b>	<b>98 EUR (MX-OPT-WH)</b>	<b>98 EUR (MX-OPT-MH)</b>







Can be ordered with stainless steel cover Mx-OPT-IC-ESMA



### Camera Models D14

			
<b>Model:</b>	<b>D14Di-IT</b>	<b>D14Di-Sec</b>	<b>D14Di-Sec-180°</b>
<b>Indoor/Outdoor:</b>	Dual lens Indoor, IP54, -30 to +60 °C	Dual lens Indoor, IP54, -30 to +60 °C	Dual lens Indoor, IP54, -30 to +60 °C
<b>Lenses:</b> (eq. 35mm)	2 Super Wide Angles (22mm, 90°, F 2.0) 32mm, 43mm, 65mm, 135mm	2 Super Wide Angles (22mm, 90°, F 2.0) 32mm, 43mm, 65mm, 135mm	2 Super Wide Angles (22mm, 90°, F 2.0)
<b>Resolution:</b>	2 x VGA (je 640x480), color & B/W	1 x 3MEGA (2048x1536 pixels), color 1 x MEGA (1280x960 pixels), B/W	2 x MEGA (2560x960 pixels), B/W
<b>Pan/Tilt/Zoom:</b>	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)	Continuous 8x zoom & pan/tilt (digital)
<b>Frame Rate (max.):</b>	30 fps VGA • 30 fps MEGA	30 fps VGA • 30 fps MEGA • 20 fps 3MEGA	30 fps VGA • 30 fps MEGA • 20 fps 3MEGA
<b>Sensitivity:</b>	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	1 lux (f=1/60s) • 0.05 lux (f=1/1s)	1 lux (f=1/60s) • 0.05 lux (f=1/1s)
<b>Interfaces:</b>	Ethernet 10/100, RS232, MiniUSB, MxBus	Ethernet 10/100, RS232, MiniUSB, MxBus	Ethernet 10/100, RS232, MiniUSB, MxBus
<b>Internal DVR:</b>	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card	Up to 64 GB with MicroSD card
<b>Audio/Telephony:</b>	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)	Bidirectional, IP telephony (VoIP)
<b>Power Sup. • In/Out:</b>	PoE or MX30V	PoE or MX30V	PoE or MX30V
<b>Software Features:</b>	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search	FTP, e-mail, video alarm management, VideoMotion, Multiview, event search
<b>Arming • Triggering:</b>	365 day schedule • Multiple events	365 day schedule • Multiple events	365 day schedule • Multiple events
<b>External Storage:</b>	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS	Up to 1 TB on PC/Server/NAS
<b>Prices:</b>	<b>998 EUR (MX-D14Di-IT)</b>	<b>1,248 EUR (MX-D14Di-Sec)</b>	<b>1,248 EUR (MX-D14Di-Sec-180°)</b>

### Accessories D14

<b>Part Name:</b>			
	<b>Description:</b>	<p><b>D14 Pole and Corner Mount</b></p> <ul style="list-style-type: none"> <li>• 3mm stainless steel, powder-coated</li> <li>• Pole diam.: 60 to 180mm</li> <li>• Incl. mounting supplies</li> </ul>	
<b>Prices:</b>	<b>98 EUR (MX-MH-Dome-ESWS)</b>	<b>148 EUR (MX-WH-Dome)</b>	
<b>Part Name:</b>			
	<b>Description:</b>	<p><b>D14 Vandalism Set</b></p> <ul style="list-style-type: none"> <li>• Reinforced dome (3mm Polyc.)</li> <li>• Stainless steel vandalism ring (matt or polished)</li> </ul>	<p><b>D14 Vandalism Set</b></p> <ul style="list-style-type: none"> <li>• Reinforced dome (3mm Polyc.)</li> <li>• Stainless steel vandalism ring (white, silver or black powder-coated)</li> </ul>
<b>Prices:</b>	<b>148 EUR (MX-D14-Vandal-ESPO/ESMA)</b>	<b>148 EUR (MX-D14-Vandal-PUWH/PUGR/PUBL)</b>	

### Accessories All Cams

<b>Part Name:</b>			
	<b>Description:</b>	<p><b>PoE Power Adapter Set</b></p> <ul style="list-style-type: none"> <li>• Power supply via network cabling</li> <li>• All cameras supplied by PoE</li> </ul>	<p><b>Network Power Rack for 4/8/20 cameras</b></p> <ul style="list-style-type: none"> <li>• Power supply for DIN rails</li> <li>• For M12, M22, D12, D22, Q22, V12, DevKit series</li> </ul>
<b>Prices:</b>	<b>98 EUR (MX-NPA-PoE-Set-INT)</b>	<b>from 398 EUR (MX-NPR-4/NPR-8/NPR-20)</b>	<b>48 EUR (MX-OPT-Patch1-EXT)</b>
<b>Part Name:</b>			
	<b>Description:</b>	<p><b>Mx2Wire Pure White</b></p> <ul style="list-style-type: none"> <li>• Ethernet and PoE using two-wire cable</li> <li>• Up to 500 meters/up to 30 Mbps (netto)</li> <li>• 7 watts via PoE</li> </ul>	<p><b>ExtIO</b></p> <ul style="list-style-type: none"> <li>• Each with 2 In- and Output contacts 8-24V</li> <li>• Microphone with adjustable volume control, speaker, status LEDs</li> <li>• USB interface, illumination sensor,</li> <li>• Temperature sensor, 2 buttons</li> <li>• For all cameras except M1, M10, D10 und V10</li> </ul>
<b>Prices:</b>	<b>Set price (2 units) 298 EUR (MX-2Wire-Set-PW)</b>	<b>198 EUR (MX-ExtIO)</b>	<b>from 298 EUR (MX-CAMIO)</b>

**CamIO AC & ACPlus:**  
As long as stocks last!

# Lens Details

Lens Table							
Article Number	L11	L22	L32	L43	L65	L135	CS-Vario
Original image							
35mm equivalent	11 mm	22 mm	32 mm	43 mm	65 mm	135 mm	24 - 54 mm
Focal length	1.8 mm	4 mm	6 mm	8 mm	12 mm	25 mm	4.5 - 10 mm
Aperture (F)	2.0	2.0	2.0	2.0	2.0	2.5	1.6 - 2.3
Image angle horizontally	180°	90°	60°	45°	31°	15°	73° - 37°
Image angle vertically	160°	67°	45°	34°	23°	11°	58° - 28°
<b>Distance 1 m (3')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	endless	2.0	1.1	0.8	0.5	0.3	1.5 - 0.7
• Image height	11	1.3	0.8	0.6	0.4	0.2	1.1 - 0.5
<b>Distance 5 m (15')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	endless	10.0	5.7	4.1	2.7	1.3	7.4 - 3.3
• Image height	55	<b>6.6</b>	<b>4.1</b>	<b>3.0</b>	<b>2.0</b>	<b>1.0</b>	5.5 - 2.5
<b>Distance 10 m (30')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	endless	20.0	11.5	8.2	5.5	2.6	14.8 - 6.7
• Image height	110	13.3	8.2	6.1	4.0	1.9	11.1 - 5
<b>Distance 20 m (60')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	endless	40.0	23.0	16.4	11.0	5.2	29.6 - 13.3
• Image height	220	26.6	16.4	12.2	8.0	3.8	22.2 - 10
<b>Distance 50 m (150')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	endless	100.0	57.5	41.0	27.5	13.0	74 - 33.3
• Image height	550	66.0	41.0	30.5	20.0	9.5	55 - 25

Available Lenses	L11 Day	L11 Night	L22 Day	L22 Night	L32 Day	L32 Night	L43 Day	L43 Night	L65 Day	L65 Night	L135 Day	L135 Night	CSVario Day	CSVario Night
<b>D24Mi-Basic-</b>	-	-	D22	-	D32	-	D43	-	D65	-	D135	-	-	-
<b>D24M-IT-</b>	-	-	D22	-	D32	-	D43	-	D65	-	D135	-	-	-
<b>D24M-IT-Night-</b>	-	-	-	N22	-	N32	-	N43	-	N65	-	N135	-	-
<b>D24M-Sec-</b>	-	-	D22	-	D32	-	D43	-	D65	-	D135	-	-	-
<b>D24M-Sec-Night-</b>	-	-	-	N22	-	N32	-	N43	-	N65	-	N135	-	-
<b>M24M-IT-</b>	-	-	D22	-	D32	-	D43	-	D65	-	D135	-	-	-
<b>M24M-IT-Night-</b>	-	-	-	N22	-	N32	-	N43	-	N65	-	N135	-	-
<b>M24M-Sec-</b>	D11	-	D22	-	D32	-	D43	-	D65	-	D135	-	CSVario	-
<b>M24M-Sec-Night-</b>	-	N11	-	N22	-	N32	-	N43	-	N65	-	N135	-	CSVario
<b>M12M-Web-</b>	-	-	-	-	-	-	D43	-	-	-	-	-	-	-
<b>M12D-IT-DNight-</b>	-	-	-	-	-	-	D43	N43	-	-	D135	N135	-	-
<b>M12D-Sec-</b>	-	-	D22	-	-	-	D43	-	-	-	D135	-	-	-
<b>M12D-Sec-DNight-</b>	-	-	D22	N22	-	-	D43	N43	-	-	D135	N135	-	-
<b>D14Di-IT</b>	-	-	D22	N22	D32	N32	D43	N43	D65	N65	D135	N135	-	-
<b>D14Di-Sec-</b>	-	-	D22	N22	D32	N32	D43	N43	D65	N65	D135	N135	-	-
<b>D14Di-Sec-180</b>	-	-	D22	N22	-	-	-	-	-	-	-	-	-	-
<b>Q24M-Basic-</b>	D11	-	D22	-	-	-	-	-	-	-	-	-	-	-
<b>Q24M-Sec-</b>	D11	-	D22	-	-	-	-	-	-	-	-	-	-	-
<b>Q24M-Sec-Night-</b>	-	N11	-	N22	-	-	-	-	-	-	-	-	-	-
<b>T24M-Sec-</b>	D11	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>T24M-Sec-Night-</b>	-	N11	-	-	-	-	-	-	-	-	-	-	-	-



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# Notes

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## A Strong Partner ...

### Complete HiRes Video Solutions high-resolution, digital and cost-effective recording



#### HiRes Video Innovations

The German company MOBOTIX AG is known as the leading pioneer in network camera technology since its founding in 1999, and its **decentralized concept has made high resolution video systems cost efficient**. Whether in embassies, airports, train stations, ports, gas stations, hotels or on highways – over hundred thousand MOBOTIX video systems have been in operation on every continent for years.

#### Pioneer In Network Camera Technology

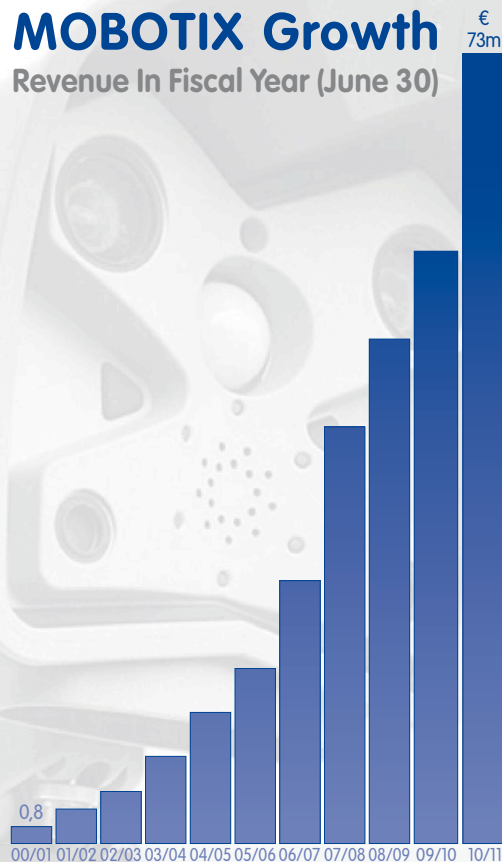
In just a short time, MOBOTIX has climbed to second place in Europe and fourth place worldwide in terms of market share. MOBOTIX has been exclusively manufacturing Megapixel cameras for many years now and is regarded as **the global market leader in high-resolution video systems**.

In the **decentralized MOBOTIX concept**, every camera has an integrated high-speed processor and, if needed, a digital memory device (MicroSD/SD card) for long-term recording.

MOBOTIX cameras can make event-driven recordings even without a central PC or DVR and can digitally store videos in the long term with sound. This is why MOBOTIX solutions represent an unbeatably good value with their excellent image quality, even for small-scale installations.

### MOBOTIX Growth

Revenue In Fiscal Year (June 30)



2010/11 Sales  
**73.2 Million Euro**

Sales Growth  
**+ 36 %**



# ... Checklist For Video Surveillance

## Compare Us!

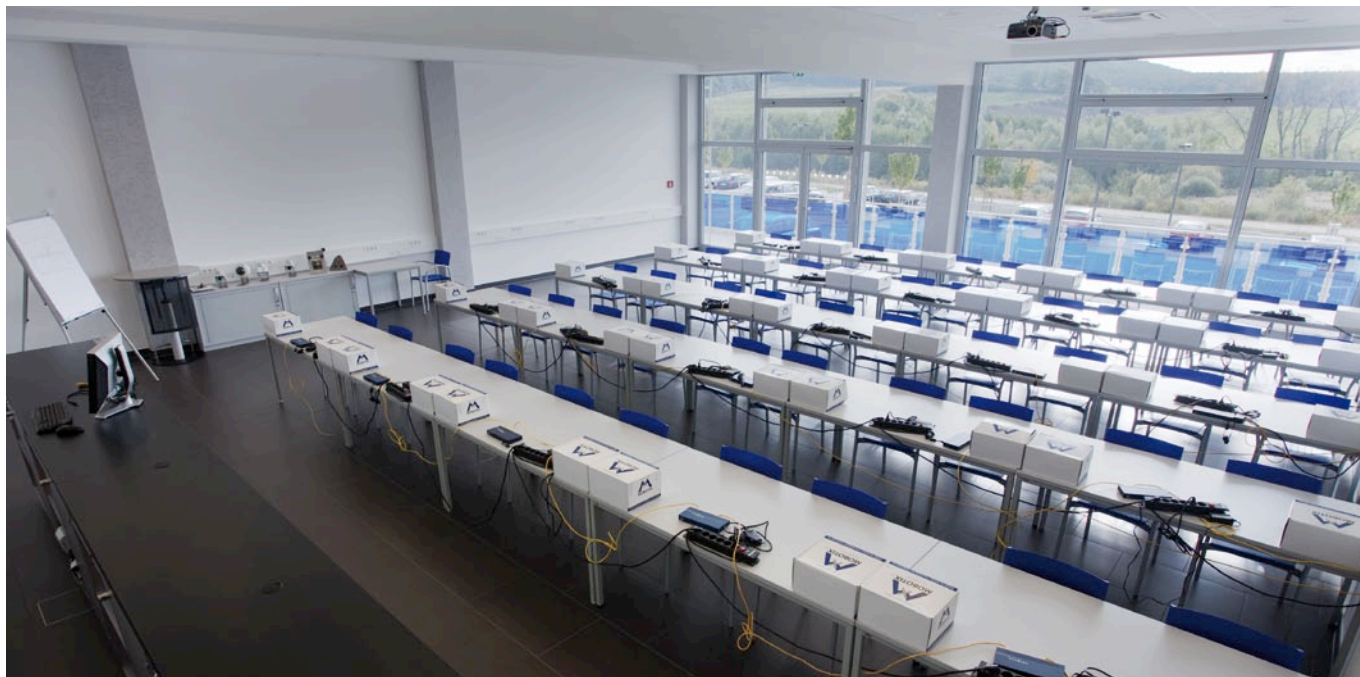
Use this helpful decision guide: answer the individual questions to compare MOBOTIX directly with another vendor of your choice.

	MOBOTIX	Other vendor
<p><b>Excellent image quality?</b> MOBOTIX cameras deliver resolution of up to 3.1 MEGApixels (2048 x 1536 pixels) in color, and thus sharp images in HDTV quality.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Great detail?</b> License plates can be clearly identified with up to 8x digital zoom and actions can be completely documented.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Large Image acquisition area?</b> A combination of Megapixel technology and a Wide Angle lens provides a large field of vision. One single MOBOTIX camera can monitor four gas station lanes at the same time.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Perfect overview?</b> With a special lens and image post-processing method, one single MOBOTIX 360° camera (Q24M) can record an entire room (such as a store) without any blind spots.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Weatherproof housing included?</b> MOBOTIX security cameras feature up to IP66 weatherproofing and do not require a heater or a fan. They can be used in temperatures ranging from -30 to +60 °C.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Very simple installation?</b> MOBOTIX reduces cabling effort. The same cable is used to supply power to the camera (PoE) and transfer video data from the camera.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Free software updates?</b> Whenever the software is updated, MOBOTIX makes it available free of charge. This keeps older systems up to date.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>No mechanical moving parts?</b> No mechanical parts such as motorized zoom, aperture, fans and pan/tilt/zoom elements means extremely low maintenance and operating costs.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Free support included?</b> The MOBOTIX support hotline will always help you with technical experts at normal landline phone rates.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Direct storage in the camera?</b> Smart image processing and storage management in the camera save on system resources and ensure easy scalability.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Annual Net Income**  
**13.2 Million Euro**

**EBIT Margin**  
**25 %**

# MOBOTIX Campus

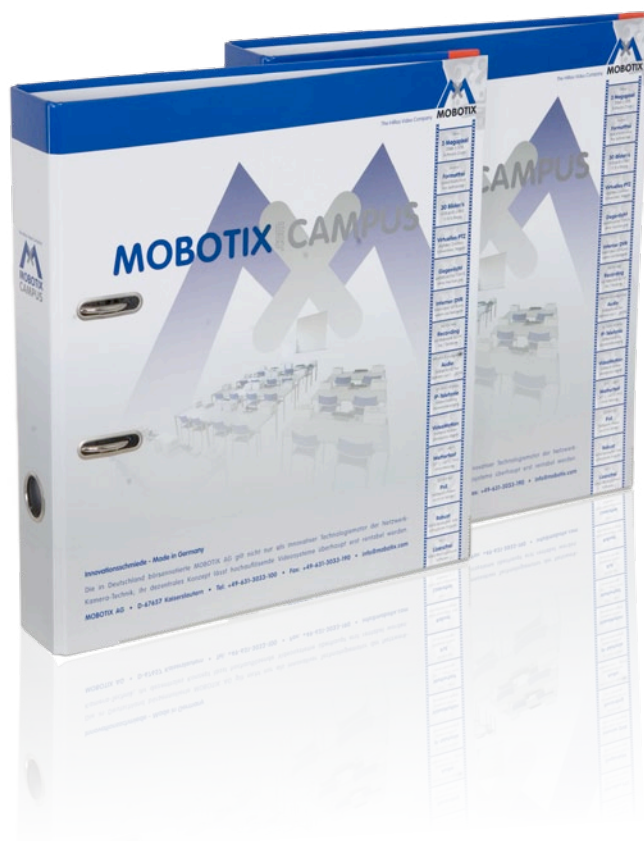


The new MOBOTIX Campus Training Center at the company headquarters in Langmeil, Germany, offers a range of training programs for MOBOTIX partners and their customers.

The **Basic Seminar** conveys simple guidelines for the successful deployment of MOBOTIX cameras.

The **Advanced Seminar** builds on the contents of the Basic Seminar. Additionally, the Advanced Seminar provides a practical introduction to the MOBOTIX MxControlCenter video management software.

The **Sales and Project Planning Workshop** goes into the business and technology aspects of projects involving MOBOTIX camera systems.



## MOBOTIX Training And Seminars

MOBOTIX provides an in-house Training Center with a diverse range of training programs for customers, partners, security companies and any other interested parties. For further information and online registration, please visit [www.mobotix.com](http://www.mobotix.com).



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The HiRes Video Company

**MOBOTIX**

## Complete HiRes Video Solutions

high-resolution, digital & cost-effective recording



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 Flash,  
external via Network

Win/Lin/Mac

**Recording**
via Network on PC  
up to 1 Terabyte

Microphone &amp; 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 to +140 °F

**Weatherproof**
-30 to +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

### 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.

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