

# MOBOTIX.com

Why we are no. 1 in high resolution IP video



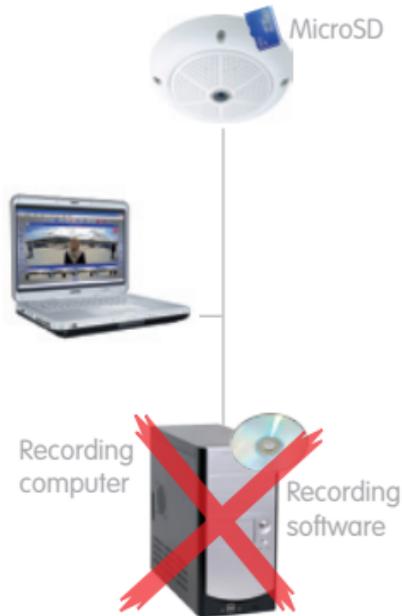
# Not just a camera. It's a complete, all-in-one solution.



A complete HiRes video system for under €1,000

## MOBOTIX System

Decentralized



## Standard System

Centralized non-MOBOTIX



Combining high resolution video with in-camera-recording means fewer cameras are needed and direct recording to any type of storage device such as, in-camera SD card, Hard Disk or NAS is made possible.

## All-in-one. Decentralized.

The first MOBOTIX product, released in 1999, was an IP camera with recording (DVR) technology built in - it was a world first. This decentralized approach was so revolutionary it changed the video surveillance industry forever. Because the camera was completely self-managing, expensive central recording systems were, for the first time ever, no longer required. The MOBOTIX decentralized system platform uses comparatively little computing power, even in megapixel, so is far more cost effective and easier to scale in size than traditional centralized systems.

### 3 cost advantages to MOBOTIX decentralized cameras:



**NOT required: Recording Computer**

The MOBOTIX camera handles all the PC functions and data processing.



**NOT required: Management Software**

Video management software is already installed inside the MOBOTIX camera.



**NOT required: Outdoor Enclosures**

MOBOTIX cameras are robust and weatherproof.  
IP65 rated • -30 °C to 60 °C, -20 °F to 140 °F

# Secure recording. Unlimited storage options.

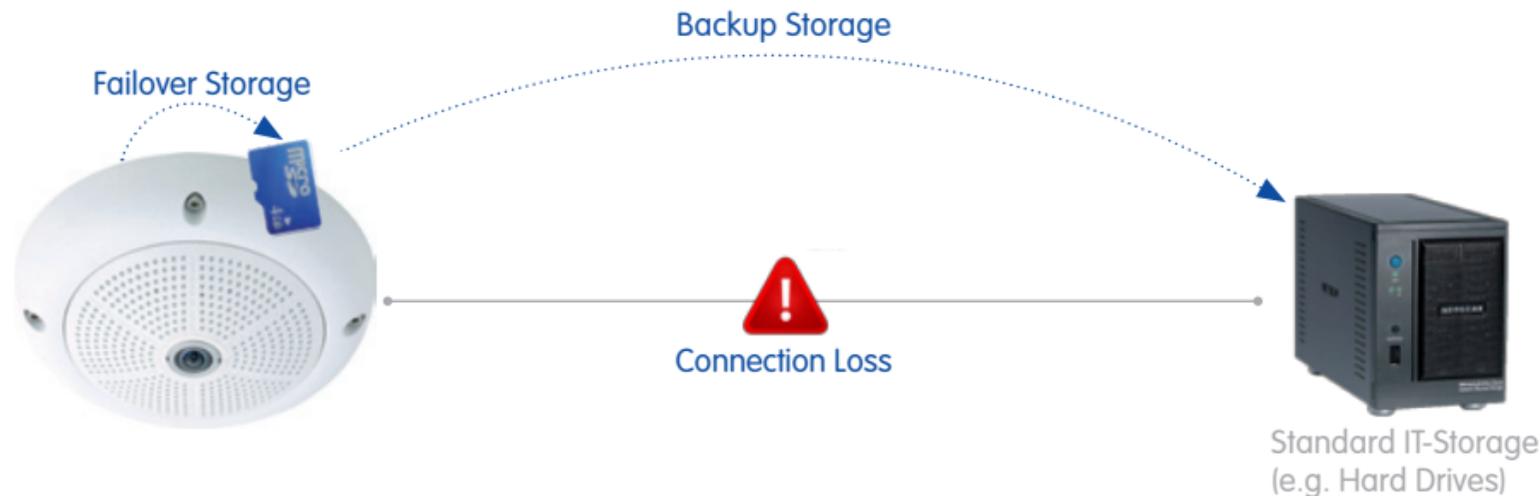


## Event Trigger

Intelligent recording occurs only when necessary

- Movement
- Door Opening
- Panic Button
- Noise Level
- etc.

Therefore storage requirements are reduced dramatically.



## Internal Storage

Events recorded internally, e.g. complete surveillance of gas station up to 4 days (at 1 fps & 32 GB SD).

## Failover Storage

If the network goes down, the camera buffers recording video to its internal storage card - up to 32GB (until network comes up again).

## No Storage Limits

Simply add standard network storage as needed. Unlimited storage at very low cost.

## Backup Storage

The MOBOTIX camera will mirror the stored video to any standard storage device (e.g. NAS) should the camera be stolen or destroyed.

## Low Cost. Low Maintenance.

Unlike traditional video surveillance recording, the MOBOTIX recording system is very inexpensive. A standard, readily available storage device is the only requirement:

- Flash Memory (MicroSD, USB-Stick)
- Standard Network IT-Storage (e.g. USB/Hard Disk, NAS)
- Windows, Linux, Mac OS X compatible

As more MOBOTIX cameras are added to the system, just add more storage nothing else - no dedicated servers or recording software licenses needed. This low cost, low maintenance solution saves customers both upfront and over the life of the system.



- No server (DVR/NVR) maintenance.
- No proprietary hardware/software
- No storage or scaling limitations

# Instant access and control, wherever you are in the world!



MOBOTIX turns any smartphone into a mobile control room with instant event notifications, on demand visual verification, and 2-way interactive audio and video communication.

## No Boundaries. No Limits.

The combined functionality within the MOBOTIX camera exceeds the intelligence found in any other camera on the market. The application potential is limited only by the imagination. For example, the all-in-one camera platform turns a standard smartphone into an interactive mobile "control-room", providing instant video playback, with on demand 2-way audio and video communication with the camera's surrounding environment - from anywhere in the world. All for under €1,000.

*"A camera from Mobotix contains a total video surveillance system within itself, including built-in DVR software, microphone, speaker, motion detection sensor, temperature sensor. Such product innovations have provided Mobotix with a significant competitive advantage, positioning it to grow strongly in the future."*

***Frost & Sullivan, Research Analyst, Archana Rao***

***[www.frost.com](http://www.frost.com)***

Data & Power (PoE)



Recording

### D24 MonoDome

In-camera-DVR (up to 32GB)

### 1 camera covers 4 car lanes

Replacing 4 standard cameras thanks to the HiRes video



Actual image



Recording

### Q24 Hemispheric

In-camera-DVR (up to 32GB)

### 1 camera covers the entire shop

Panoramic overview, simultaneous viewing and zoom



Actual image – panorama focus in gas station



### Standard PoE-Switch

Connection and Power



### Standard PC & MxEasy

PC for search only, software free of charge



1 Hemispheric camera provides 180° overview and two close up views

## Cost Advantages

The MOBOTIX system has saved customers all over the world, thousands, even tens of thousands of dollars in a single installation. For example, in this gas station (above), 2 high resolution MOBOTIX cameras were installed, providing the same area coverage as a standard 8-camera system. The combination of super-wide area coverage with high resolution video saved the customer enormously in power and data cabling, recording hardware and software - and money!

Further cost advantages to the MOBOTIX system:



**NOT required: 8-camera system**

Just two MOBOTIX cameras can provide the same area coverage as a standard 8-camera system



**NOT required: Multiple Data Cables**

Four coax cables can be replaced with a single Ethernet cable using the Hemispheric camera



**NOT required: Additional power cabling**

MOBOTIX cameras are PoE enabled, so they can be powered by a single PoE network switch

Actual MOBOTIX camera image in gas station

**3 Mega**  
1536 lines



**Mega**  
960 lines

**TV-Pal**  
576 lines

**CIF**  
288 lines

**High Resolution - 30 times the resolution of a CCTV camera**  
MOBOTIX HiRes Video enables positive identification of people and objects up to 100m away



**3 Mega**  
1536 lines

**High Detail - 3 megapixel resolution allows powerful digital zoom**  
MOBOTIX HiRes Video can even capture the serial number of a bill from a distance of two meters

## No. 1 for High Resolution

MOBOTIX cameras are world-renowned for delivering superior image quality, with almost 40% share and no.1\* global ranking in the megapixel IP camera market. The combination of unprecedented backlight and exposure control along with MxPEG - a breakthrough video delivery technology - guarantees the highest image quality possible in almost all conditions, such as, extremes in weather and variances in lighting. Additionally, MxPEG is the only codec in the world that is designed specifically for video surveillance applications.

\*IMS Research Study 12 July 2009

MOBOTIX 2048 x 1536 MxPEG

HDTV 1920 x 1080 H.264

HDTV 1080 lines

MxPEG 1536 lines

**MOBOTIX cameras deliver 51% higher resolution than HDTV, capturing a much larger area so fewer cameras are needed - saving you more money!**

See MOBOTIX video demos: [www.mobotix.com/support](http://www.mobotix.com/support)

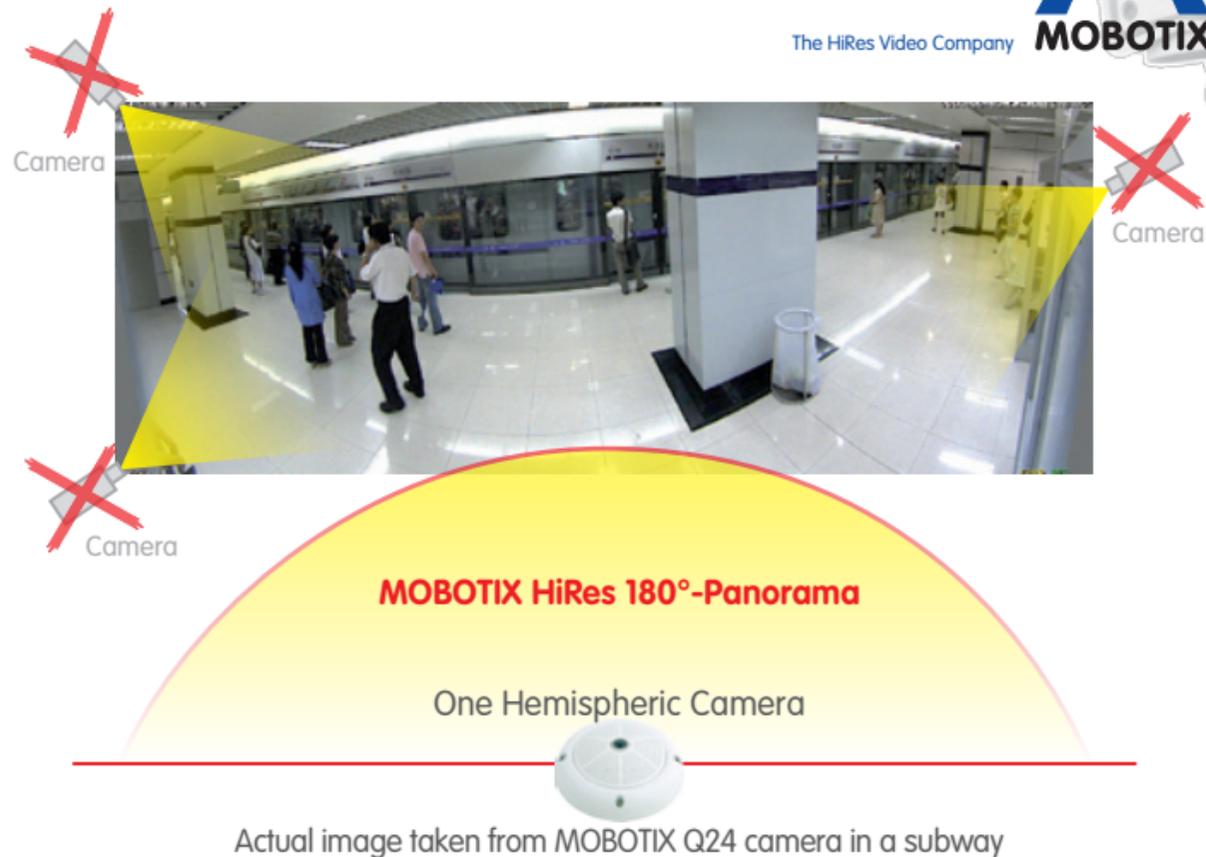
180°



Complete Panorama view from wall to wall and floor to ceiling

## One camera - no place to hide!

Monitoring video from multiple cameras is difficult to track. There is often overlapping, with the same objects and people appearing on 2 or more monitors at the same time, and moving objects appearing and disappearing from view where there are gaps between the camera's field of view – this becomes a logistical nightmare when it comes to busy, crowded scenes. The MOBOTIX Hemispheric technology completely resolves this problem. Just one Hemispheric camera can capture and deliver a single 180° panoramic view with no overlapping, or “disappearance” gaps on the viewing monitors – and nowhere to hide!



# Dual Lens Cameras

## M12

Robust for extreme conditions



Ceiling



Wall

## D12

Dome with adjustable lenses



Ceiling



Wall

## V12

Firearm resistant



Corner

## Development Kit

Discreet board with cabled lens



Install anywhere!

# Why Dual Lens?

## Benefit 1: No Moving Parts – Longer Life

MOBOTIX has developed the only day/night cameras in the world that have no moving parts. Every other day/night camera on the market requires a moving IR cut filter to achieve day and night operation - but the moving IR filter eventually wears out. With no moving parts, the dual lens cameras from MOBOTIX, last many more years in the field, maintaining image quality and integrity.

## Benefit 2: Dual Views Simultaneously – More Cost-Effective

"Dual lens" means two cameras-in-one. By choosing your preferred combination of lenses you can also create two individual viewing angles from a single camera - lowering both installation time and cost.



M12 Day/Night



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D12 DualDome

1 Camera, 2 simultaneous views

# Single Lens Cameras

## D24

Classic Dome



In-surface



On surface

## M24

Robust for extreme conditions



Ceiling



Wall

## Q24

Discreet, Hemispheric



Ceiling



Wall

## Mounting

All applications



Q24 Wall



D24 Wall

## Vandalism

Super-tough



Q24



D24

# Choice. Flexibility.

## Lenses

MOBOTIX provide a choice of 6 lens options to get the right viewing angle for the application. From super-wide 180° Hemispheric wall-to-wall capture to close up telephoto viewing enabling identification of objects up 100m away.

## Mounting Options

MOBOTIX provide dozens of different types of mounting options to ensure the camera blends into its environment. Full cable management provided with every mounting accessory. Whether you need the camera to be discreet, elegant or robust MOBOTIX has the right solution to meet the demands of the installation.

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# Home Automation

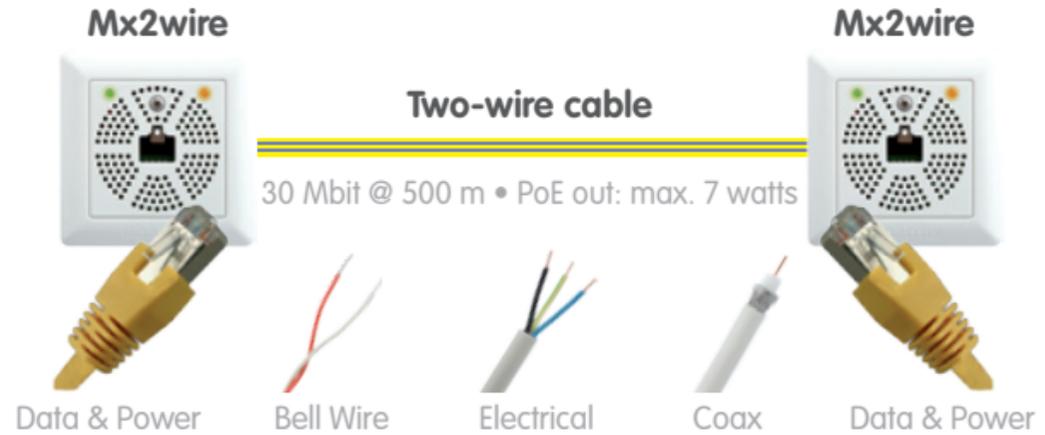
## T24 Hemispheric IP-Video-Door Station

The MOBOTIX T24 captures a superwide 180° panorama view, while also providing complete door access control. The T24 is a VoIP phone conforming to the worldwide SIP standard (H264) which enables interactive 2-way audio/video communication via local network or the Internet.



## Mx2wire

Converts standard 2-wire into a 10/100 PoE Network



The Mx2wire system from MOBOTIX turns an existing two-wire cable into a power network (PoE Ethernet) cable – simply, quickly and cost-effectively.

## CamIO

I/O IP Module  
Integrated Alarm Device



The CamIO connects and powers up to 3 cameras with its internal 3-port PoE switch even on a 12V source. With a 3G stick and its in-/outputs it forms a complete mobile alarm system.

## T24

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IP Door Station  
Access Control, Video Intercom

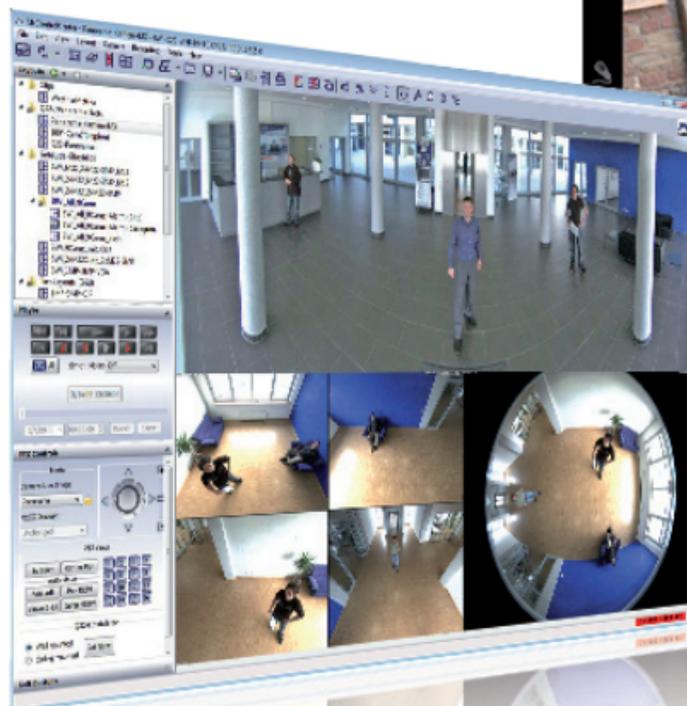


**Hemispheric Camera**  
Loudspeaker & microphone

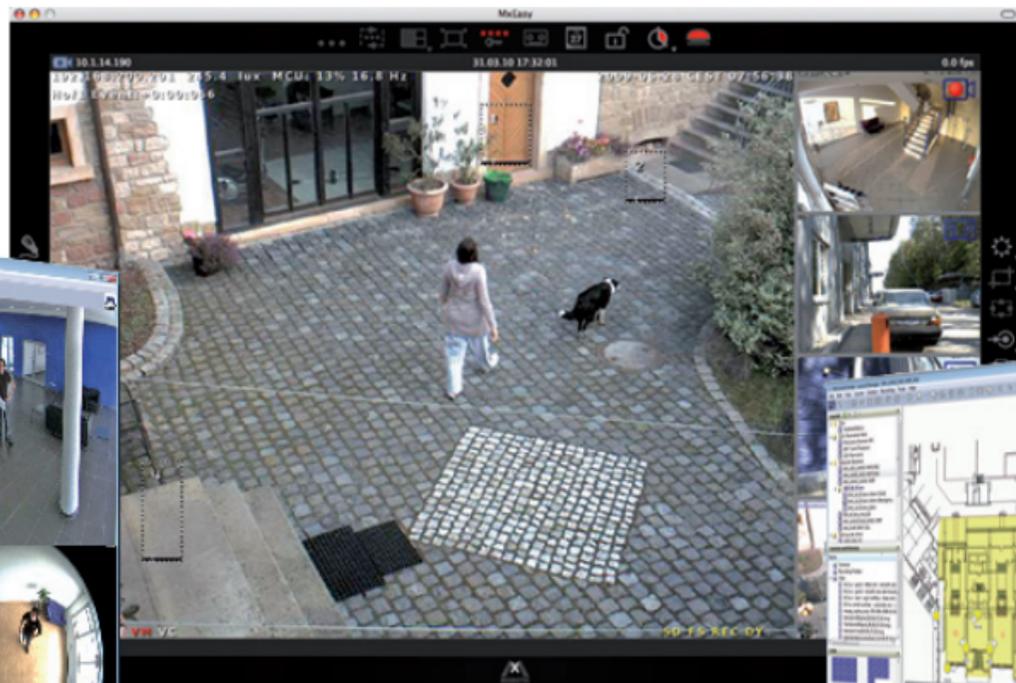
**Code & RFID Module**  
Keyless entry

**Infomodule & Mx2wire**  
2-wire cable

# Client Software



**MxControlCenter**  
High End for Large Sites



**MxEasy**  
The Essentials for Small Sites



**MxControlCenter**  
Powerful Layout Manager

## Free Of Charge

MOBOTIX provides a suite of viewing client software for easy access and management of unlimited numbers of cameras and storage devices - via either a local network or Internet. Apart from being feature rich and easy to use, one of the best things about MOBOTIX software is that it's available **free of charge** - no licensing fees or upgrade costs. From 1 camera to over 500\* cameras, the MOBOTIX software caters to installations of any size!

\*Nearly 1,000 cameras are fully managed using MxControlCenter at Polytechnic in Singapore

### MxEasy

Provides the essentials required for small sized installations:

- Small sites, up to 16 cameras
- Step-by-step install wizard
- Quick and Easy self installation
- Windows, Mac, Linux compatible



### MxControlCenter

Advanced features for medium to large installations:

- Unlimited cameras
- Multiple site management
- Customizable layout views
- Windows, Linux compatible





**The MOBOTIX Software Engineering Team**

## Made in Germany

All MOBOTIX devices are designed and manufactured in Germany. "Made in Germany" is a universal seal representing world class design and outstanding build quality. MOBOTIX sees itself as a software company that manufactures hardware focussing on the overall system design. So our devices are complete solutions and easy to use. The innovative camera design also features a weatherproof form factor, no moving parts and unrivalled robustness ensuring a longer product lifecycle - resulting in a lower total cost of ownership over the life of the product.



**Dr Ralf Hinkel, CEO and founder**



**MOBOTIX is ranked as no. 1 megapixel security camera manufacturer, with almost 40%\* market share.**

\*IMS Research Study, 12 July 2009

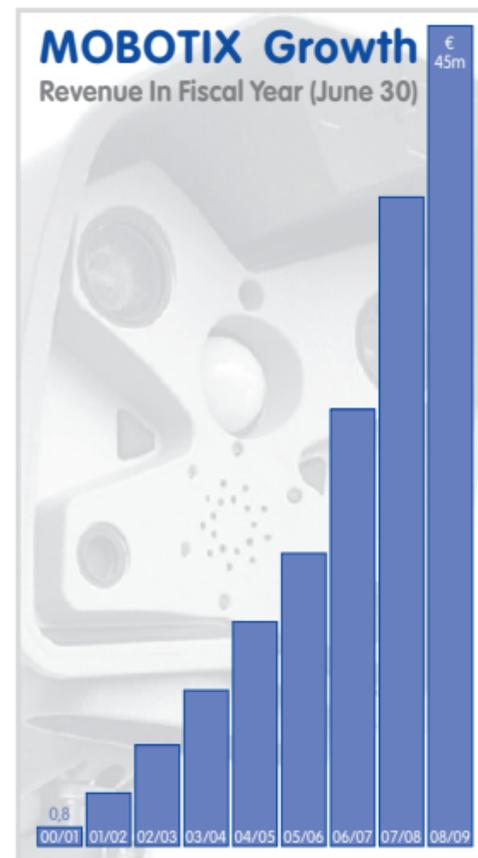


**MOBOTIX Headquarters • Langmeil • Germany**

## Strong Earnings. High Growth.

MOBOTIX has a proven track record of high sustainable growth at high profitability, shipping 8,000 cameras a month, with 75% of the total being foreign export. Going public in 2007, the company balance sheet is solid with an equity ratio higher than 55%. With a strong operating cash flow MOBOTIX continues to invest in R&D to ensure its ongoing success. Individual investors can purchase MOBOTIX shares through the Frankfurt Stock Exchange\*. [For more information - investors@mobotix.com](mailto:investors@mobotix.com)

\*Share symbol **MBQ**. MOBOTIX ISIN (International Securities Identifying Number) **DE0005218309**



## Recognized by Industry Experts



reddot design award  
honourable mention 2009  
honourable mention 2009  
reddot design award

# Cost Saving System for all Applications

The HiRes Video Company



MOBOTIX has been chosen as the preferred solution by thousands of customers around the world. Below are some actual case examples where the customer has saved, some upwards of tens of thousands of dollars, through deploying the MOBOTIX system.

Abu Dhabi Airport, Abu Dhabi

Commerzbank, Germany

Stadion Parc des Princes, France

Republic Polytechnic, Singapore (1,000 cameras)

Ritz Carlton Hotel, Bahrain (130 cameras)

Deutsche Bahn, Germany

Vatican Apostolic Library, Vatican

Italian Financial Services Authority, Italy

EON, Germany

Airbus S.A.S., Germany

Bergen County Prison, USA (350 cams)

Telecom Italia, Italy (500 cameras)

Manly Beach, Australia

Coventry Airport, UK

Max-Planck-Institute, Germany

City of Dillingham, Alaska

Panama Ports, Panama

Daimler AG, Germany

Bezeq Telecom, Israel (800 cameras)

Credit du Maroc Bank, Morocco (270 cameras)

Wahat al Khartoum Shopping Mall, Sudan (300 cameras)

EURO 2012 Stadium, Donbass Arena, Ukraine (500 cameras)

American School Dubai, United Arab Emirates (200 cameras)

Bus stations, Guatemala (250 cameras)

MAN Logistics, Germany

Fraport AG, Germany

... thousands more customers around the world are also benefitting from investing in a MOBOTIX system.



## Contact

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**Innovation.** That's what we stand for. **MOBOTIX.**