

MOBOTIX News 11/2007

Security-Vision-Systems



New: All cameras now with 3-megapixel sensors and recording in megapixel video format



3 Megapixels As Standard

MOBOTIX cameras are now produced with 3-megapixel color sensors (2048 x 1536). The new software (3.4) can generate customised image formats in **all** sizes and aspect ratios. This greatly reduces the required bandwidth and storage size since only the most important areas of an image are transferred and recorded (see picture of the gas station above).

The high sensor resolution of 2048 x 1536 pixels and the **variable** image scaling in the camera itself provide highest sharpness of detail without image artefacts or aliasing, even for medium level resolution settings such as XGA (800 x 600).

One MOBOTIX Instead Of Four Cameras

Just one single high-resolution MOBOTIX camera can monitor four gas station lanes at the same time and record on the PC. Four turnstiles at the World Cup stadium in Kaiserslautern were also monitored with only one MOBOTIX camera. Moreover, the investment expense is also reduced thanks to simpler installation and an emergency power supply. And all this is available at a very attractive price – a D22-Secure, including weather-proof casing, lens and the professional control center software, MxControlCenter. Event-driven recording up to 30 F/s and extensive alarm functions via email or VoIP telephony are also integrated.

Image Format: Continuous Zoom

Along with the Secure models, also the IT series features integrated continuously variable zooming with the new software version 3.4 as of December 2007. Both model series have a 3-megapixel sensor, however only the Secure models support variable image formats, while the IT series is limited to VGA (but has continuous zoom and pan functions).

D22: Universal 3-Megapixel Dome

The compact, competitively priced D22 family is available in six models:

- Standard casing, as illustrated below
- Vandal-proof model in stainless steel
- Ceiling-mounted housing flush to ceiling
- On-wall mount with space for cables
- Wall mount with free space, e.g. WLAN
- Solid stainless steel pole bracket



The D22-IT model for € 548 includes a lens, IP65 weather protection, PoE power supply and the professional control center software, MxControlCenter. Event-driven recording up to 30 F/s and extensive alarm functions via email or VoIP telephony are also integrated.

Elegant Ceiling Design

A ceiling installation kit is available for € 98 for inconspicuous ceiling mounting. It is small in height and can be easily installed from one side.



Successful Entry To Stock Market

MOBOTIX AG shares have been trading since October 10, 2007 in the entry standard of the open market at the Frankfurt stock exchange under the international security identification number DE0005218309 (MBQ).

With growth figures of 52% in the last fiscal year (ended June 30, 2007) and again over 50% in the first quarter of the new year (July – September 2007) MOBOTIX continues to expand, not only in Germany, but also internationally, with an export ratio of 60%. MOBOTIX has been highly profitable with an EBIT margin of 18.8%.

<http://www.mobotix.com/other/investors>

8GB: Integrated Flash Recording

As of December 2007, the M12, D12 and M22 cameras include an integrated flash memory (8 Gbytes) for recording. Whether a PC is running or not, all events are digitally recorded in the form of single images or in video format for several days – and the camera has no moving parts (type: M12-Sec-R8).

D12 In Vandal Proof Casing

As of December 2007 the D12 family features a stainless steel casing with a reinforced polycarbonate dome, thereby opening up new areas of application for the 3-megapixel dual camera.



The casing with dome is offered as a set and can also be retrofitted to existing D10/D12 cameras for Eur 148.

MxCC: Simple Installation

The MOBOTIX control center MxCC has been developed with ease of installation in mind. At the touch of a button it automatically finds the cameras in the network and can configure them for automatic recording when detecting movement. The integrated update assistant helps to maintain an overview of a large set of cameras.



The MxCC contains an integrated layout editor for fast composition of building plans. You can search for events for multiple cameras with automatically synchronized time tracking. Distortion correction of wide-angle lenses both in live and recorded images is integrated as a standard.

Other standard features are magnification of image sections and post-processing for print and storage functions.

Megapixel Video Instead Single Images

The differences are in the video. Anyone looking for high-resolution video in megapixel cameras will usually find only MPEG-4 in VGA format with 480 lines (poorer quality than a TV image). If you want high resolution nonetheless, you have to save sequences of individual images (motion JPEG).

But not with MOBOTIX, because the MxPEG video format delivers **real video** with lip-synchronised sound and in high resolution of up to 1536 lines. MOBOTIX cameras are significantly more efficient than conventional cameras since a video stream requires about 4 times less memory than a sequence of individual images at the same frame rate.

Megapixels Efficiently Stored

MOBOTIX cameras have been offering megapixel video recording for years now – cost-effective, using little bandwidth, with variable frame rate and with audio. The video image can be reduced in size and aspect ratio to the required image display to save memory. This takes place in the MOBOTIX camera, greatly reducing the workloads on the network and PC. This reduced PC workload in particular makes MOBOTIX systems very attractive in price and performance since around 40 cameras can save their **high-resolution video** on a single standard PC. MOBOTIX thus operates with the least possible number of recording systems. Fewer cameras, less installation work and fewer recording PCs mean that MOBOTIX, Made In Germany, high-resolution systems are unbeatable in competition.

VDE-Certified: Lights And Doors

The CamIO has been certified by VDE (German Association for Electrical, Electronic & Information Technologies) for M12 cameras since October 2007 and can handle loads of up to 500 W (110/240 V). Using the large integrated loudspeaker, door-opener relays and the two button inputs, remote entrances can be easily equipped with a video doorway station.

Communication is performed either using the browser or via VoIP telephone connection to the camera. Door openers and lights are controlled by the number keys. Power is supplied via the network cable (PoE) or locally with 110/240 V.

1000 Megapixel Cameras In Singapore

After a two-year trial with about 80 cameras at the old site, the new campus of the Singapore Polytechnic has been equipped with about 1000 megapixel cameras. Only MOBOTIX was able to guarantee the required high resolution in the recording with 960 lines. The new MxCC (**free of charge and no license required**) was used as control center software.



MxPEG 2: Now Without Tiling

The MxPEG video codec in the cameras has been optimised in regard to tiling formations and bandwidth, meaning that slow transitions in brightness can now be transferred without the appearance of tiling effects. Version 2.3 is also available as of December 2007 for the former models M10 and D10.

Securing Mobility On Highways

Monitoring of crucial highway sections has been further extended with MOBOTIX this year. MOBOTIX is ideal for this application because of its low power consumption and small transmission bandwidth as well as the fact that it requires **no heating** and has no moving parts. No wonder that MOBOTIX has been a standard fixture on motorways for years now, for example at toll collect bridges in Germany.

