MOBOTIX News 6/2005

Security-Vision-Systems

MOBOTIX AG

... the new face of IP video

M10-Web: Megapixel Camera with Logo Generator
multiple logos · free outline with holes · transparency · time driven

Free Contour

1280 x 960 Pixel

30 Cameras Live On One Monitor

When comparing image display performance, MOBOTIX is top class because the Windows client (MxPEG-Viewer) supplied with the camera supports image display of up to 30 cameras live, each at 25 fps in CIF format (Pentium IV with 3.2 GHz). The typical network load is under 1.5 Mbps per camera.

With an integrated event memory, layout editor, site map display, remote access function, bidirectional audio to the cameras and many other features, the MxPEG-Viewer is included with every camera or can be downloaded from the website free of charge (for further details go to the Technology menu on the MOBOTIX website).

Backlight At Lübeck Harbor

There are currently 25 MOBOTIX systems in operation at the scanning portals for incoming truck traffic as well as in the various entry control points to Lübeck Harbor. After problems were encountered when the sun was low, the old analog cameras were replaced by MOBOTIX cameras because they have automatic backlight compensation. This new solution has been so successful that plans have been made to add another 25 cameras.

M10-Web: Time-Controlled Logos

The M10-Web is acclaimed around the world as the outdoor webcam. The camera has a temperature range of -30° to +60° Celsius, and needs no additional weatherproof housing or heating. It can be operated directly on the network or by ISDN and, priced at € 799 net, can pay for itself quickly by displaying advertisements.

With 1280 x 960 pixels and an improved color system, the M10-Web even outperforms the proverbial image and color quality of the M1. Image section as well as panning and zoom can all be freely selected for the M10 so that the camera can also be focused to capture narrow skyline views (e.g. 1000 x 250 pixels). Thanks to software reduction, VGA or CIF images are also of highest quality compared to competitor models.

The logo generator on the M10-Web supports the time-controlled display of multiple logos in the image; logos can also be loaded online via a URL. The MOBOTIX M10 is the only IP camera to support animated logos (.png) with pixel-precise positioning, contours and cutouts. The transparency function allows watermarks to be integrated into the image, for example.

D10: Dual-Fixdome Outdoor

The new attractive MOBOTIX "D" camera collection is ideally suited both for interior settings where design is of the essence, and in conjunction with its integrated wall mount, for use on elegant façades. The new wall mount enables cables to be concealed and also seals off standard RJ-45 flush sockets. The Dual version of the D10 offers two camera modules, which can be positioned independently of one another, allowing two different image areas to be monitored simultaneously, for example, the lobby and an entrance door. The Day&Night variant uses one color and one black-and-white camera module and switches automatically depending on the brightness of the surroundings. All this is completely electronic, without any mechanical parts that are more susceptible to failure.

The D10 is equipped with audio, long-term recording, playback and multiview functions for direct connection to the network or ISDN.

References

- MOBOTIX in Antarctica
- Bank application with UVV (accident prevention regulation) certificates
- Dual camera at an ATM
- German Railway 3-S program
- MAN-Logistics relies on MOBOTIX
- Lübeck Harbor surveillance
- Truck license plate recognition at Fendt
- Coventry Airport in England
- 130 pump stations in the Everglades
- ==> New website: www.mobotix.com

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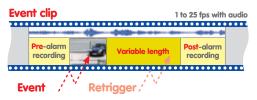
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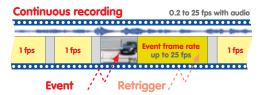
Integrated Video Recording

MOBOTIX secure cameras are the only IP cameras that can record complete video and audio clips on an event-controlled basis. There is no need for any software installation and

Event clip — 1 to 25 fps with audio

Pre-alarm recording | Variable length | Post-alarm recording

Event — Retrigger

FTP because the cameras use a folder on the hard disk of a PC or server which is allocated via the network. This MOBOTIX process allows a standard PC to record images of up to 30 cameras at a frame rate of 25 fps.

Event-Controlled Frame Rate

MOBOTIX cameras are able to adjust the frame rate between 0.2 and 25 Hz, depending on events (such as motion in the image). Despite the change in the frame frequency, it is still possible to record high-

Continuous recording — 0.2 to 25 fps with audio

1 fps | 1 fps | Event frame rate up to 25 fps | 1 fps

Event — Retrigger

quality lip-synchronized sound. This process, which is only possible with the MxPEG-Videocodec from MOBOTIX, reduces the amount of storage space required dramatically.

Annual Schedule Included

Thanks to the camera's variable time program, recording can be enabled with up-to-the-minute precision over the course of the day, even taking holidays into account.

The actual recording process can be started, extended and stopped by events. For example, images (and sound) are only recorded if movement is detected in a room.

Audio In The Browser

MOBOTIX cameras have a fully integrated audio channel that doesn't just record, but it also supports the output of lip-synchronized, live images via a network from any browser with ActiveX-capability.

Alarm Via IP Telephony

MOBOTIX cameras can now transmit messages or be called via the integrated SIP client both locally in the LAN and worldwide via a SIP provider.
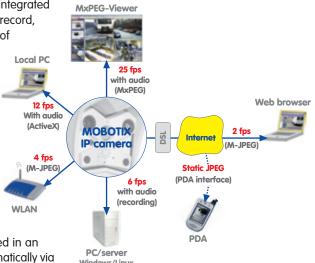
Alarms (such as motion detected in an image) can be forwarded automatically via ISDN and IP telephony. To do so, the camera dials the phone numbers stored for this purpose until the agreed PIN is entered via the telephone keypad.

Using the integrated touchtone interface, camera functions such as enabling recording or opening a door can be remote-controlled via the camera switch output by simply pressing the number keys.

Multi-Channel Capability

MOBOTIX cameras are able to transmit different frame rates simultaneously with a lip-synchronous sound channel. This means that every camera user can adjust the frame rate to the bandwidth of the connection used. Even at full frame rate, the system seldom requires more than 2 Mbps, i.e. approximately 2 % of a standard network.

Parallel to MxPEG video and audio streaming, the camera still creates JPEG or Motion JPEG

MxPEG-Viewer

Local PC

12 fps With audio (ActiveX)

4 fps (M-JPEG)

WLAN

MOBOTIX IP camera

DSL

25 fps with audio (MxPEG)

6 fps with audio (recording)

PC/server Windows/Linux

Internet

Static JPEG (PDA interface)
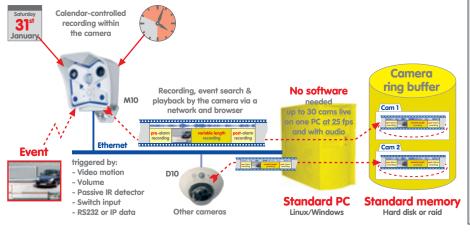
PDA

2 fps (M-JPEG)

Web browser

images for the browser interface without requiring any plug-ins (Java or ActiveX).

The integrated web-based PDA interface also allows direct access to the camera simultaneously using smartphones.

Saturday **31**st January

Calendar-controlled recording within the camera

M10

Event

triggered by:
- Video motion
- Volume
- Passive IR detector
- Switch input
- RS232 or IP data

Ethernet

D10 — Other cameras

Recording, event search & playback by the camera via a network and browser

pre-alarm recording | variable length recording | post-alarm recording

No software needed up to 30 cams live on one PC at 25 fps and with audio

Standard PC Linux/Windows

Camera ring buffer

Cam 1

Cam 2

Standard memory Hard disk or raid

MxPEG Data Rate with Audio

- **0.2 Hz** frame rate (one frame every 5 seconds)
  Network load: 0.155 Mbps (0.2 %)
  Storage requirements: 70 MB/h - 1.6 GB/day

- **2 Hz** frame rate (2 VGA frames per second)
  Network load: 0.4 Mbps (0.4%)
  Storage requirements: 180 MB/h - 4 GB/day

- **12 Hz** frame rate (12 VGA frames per second)
  Network load: 1.6 Mbps
  Storage requirements: 720 MB/h - 17 GB/day

- All specifications in VGA format (640x480) with good quality (50%) and sound (MxPEG)

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