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M10D-IT Technical Specifications
Dual-Lens Outdoor IP Camera

Security-Vision-Systems

MOBOTIX AG

... the new face of IP video

M10D-IT: IP Camera System With Integrated Recording

The M10D-IT has two integrated image sensors and two lenses (wide-angle and tele). With 640 x 480 pixels, the resolution of the M10-IT is about six times as high as the CIF images from an analog camera. When delivering VGA (640 x 480) and CIF (320 x 240) images, the MOBOTIX camera reaches 25 fps (CIF) with the lowest network load (MxPEG: approx. 1 Mbit/s).

Bidirectional audio, video motion detection and a passive IR sensor are also part of the standard delivery. The integrated Ethernet, ISDN and RS232 interfaces provide access to all current IT standards, including GSM/GPRS/UMTS (3G).

Video motion detection, event-controlled frame rates and freely selectable image sections reduce the storage requirements of the M10 to a minimum. The camera software features integrated alarm management including pre- and post-alarm images, FTP, e-mail, external ring buffer storage on Windows, Linux and Mac OS X computers as well as playback and MultiView functions for up to 30 cameras in the browser. Since the camera does not require additional heating, power can be injected into the network cabling, even under extreme conditions. The operating temperature of the camera ranges from –30 to +60°C. An ISDN modem is integrated as well.

Highlights

- In/Outdoor, IP65 weatherpr., -30..+60°C
- Robust and reliable, no moving parts
- Dual lens camera with wide-angle and tele lenses
- MOBOTIX TrueColor software for brilliant colors
- Max. resolution VGA (640x480 pixels)
- Ethernet and ISDN interfaces
- Video motion detection/PIR sensor
- RS232 interface (e.g. GSM/GPRS/UMTS)
- Software DVR for Windows/Linux/OS X computers
- IP telephony (SIP) and DynDNS client
- Camera phone calls, intercom features

Dual Camera System VGA

- Fully digital color CMOS image sensor with 640x480 pixels and backlight correction
- 8 mm standard wide-angle lens: 5-element glass lens 1:2.0, 45° horiz.
- 25 mm standard tele: 5-element glass lens 1:2.5, 15° horiz.

Automatic Exposure Without Iris

- Auto exposure times from 0.1 msec. to 1 sec.
- Configurable min./max. shutter speeds
- Freely definable exposure windows
- Purely software-based control with exposure windows, white balance, automatic contrast, sharpness filter and backlight correction
- MOBOTIX TrueColor software
- Individual exp. control for each image sensor

Image Formats and Frame Rates

- Color 640x480, 320x240, 160x120
- Dual camera: 1280x480, 640x240
- Image formats: JPEG, Motion JPEG, MxPEG, BMP
- Frame rate using MxPEG (320x240): 25 fps
- Frame rate using MxPEG (640x480): 12 fps
- Image size (320x240 JPEG): 6 to 20 kB

Image Storage Included

- 32 MB internal image storage (up to 1,250 VGA, 2,000 CIF images or 3 min. video)
- Event and time-controlled image storage
- Adj. number of pre- and post-alarm images
- Browser playback with event search features

Recording Included

- Integrated ring buffer recording by the camera on Windows/Linux/OS X computers
- Event-controlled Snap Shot image recording with pre- and post-alarm images

Video Management Included

- Ring buffer with up to 1 million alarms on the PC/server (no software installation or FTP!!!)
- Adjustable ring buffer size and delete time
- Image management with time/date search
- Definable MultiView for up to 30 cameras
- Freely definable function buttons
- MxViewer Windows client with Layout Editor

Event/Alarm Control Included

- Freely definable time functions/repeats
- Passive IR motion sensor, signal input
- Temperature, illumination, microphone volume
- Motion detection in definable video motion fields
- TCP/IP messages on IP ports (Ethernet and ISDN)

Alarm Signalling Included

- Signal output and sounds on camera speaker
- E-Mail and FTP via network and ISDN
- TCP/IP messages on IP ports (Ethernet and ISDN)
- Phone call (list & PIN test), with voice message

Audio SIP Telephony

- Integrated microphone and speaker
- ISDN telephony (with PIN test)
- Voice-over-IP to/from Windows PC
- Custom voice messages easily recorded
- DHCP-assigned IP address on speaker
- Announcement of dynamic IP address via phone
- Touchtone remote control using phone keys
- Lip-synchronous audio recording (MxPEG)

Software Everything Included

- No software installation required
- Live images and admin. using web browser
- Complete video management software and recording integrated in camera software
- 4 simultaneous browser operating modes: HTML/JavaScript with M-JPEG, streaming (Java), ActiveX (MxPEG), PDA-optimized pages
- PDA interface with HTML-only pages
- Website updates via FTP, also using ISDN
- Several cameras in one browser window
- Simultaneous ISDN dial-in/dial-out using PPP
- Freely definable user groups and access rights

Power Supply 3 Watts

- Power supply injected into Ethernet or ISDN cabling (MxPoE)
- Ethernet: 24...32V DC; 3W power consumption

Mechanics Maintenance-Free

- Fiber-reinforced casing with weather protection
- Optional wall/ceiling mount with fully concealed cabling (white)
- Weight (incl. ball joint wall mount): 580 g
- Dimensions (incl. wall mount w/ ball joint): 130 x 140 x 170 mm (w x d x h)

Characteristics

- Hardware resolution:
  Two CMOS 640 x 480 color
- Frame/data rates for MxPEG video streaming (50% JPEG):

25 F/s	CIF (320x240)	1.2 Mbit
12 F/s	VGA (640x480)	1.3 Mbit

- Wide angle lens sensitivity (8 mm/2.0):
  1 Lux at 1/60 sec., 0.05 Lux at 1 sec.
- Tele lens sensitivity (25 mm/2.5):
  1 Lux at 1/60 sec., 0.05 Lux at 1 sec.
- Audio codec
  64 kBit/s ISDN and SIP (IP telephony)
- Temperature: -30° ... +60° C, IP65

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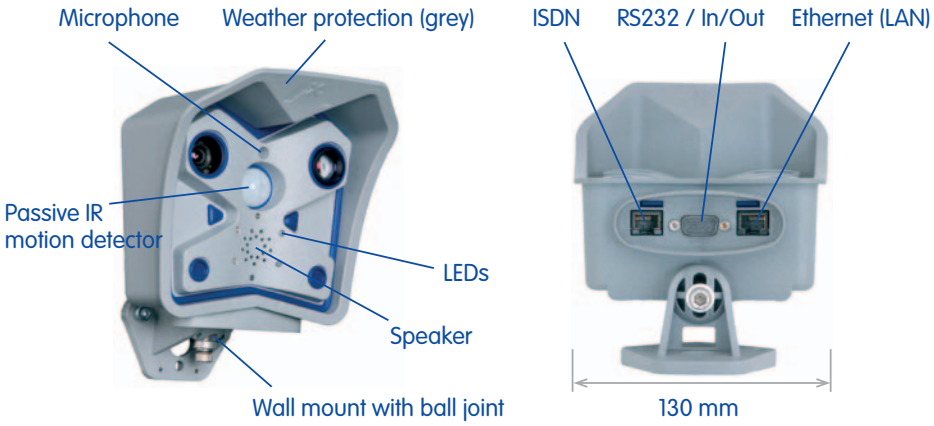

Outdoor wall mount* with space for RJ45 wall outlet (*optional accessory)

L22 Fisheye 90°*	L32 Wide-angle*	L43 Wide-angle	L65 Tele*	L135 Tele

MOBOTIX Lenses

90° hor. x 67° vert. in 10 m: 20.0 x 13.3 m	60° hor. x 45° vert. in 10 m: 11.5 x 8.2 m	45° hor. x 34° vert. in 10 m: 8.2 x 6.1 m	31° hor. x 23° vert. in 10 m: 5.5 x 4.0 m	15° hor. x 11° vert. in 10 m: 2.6 x 1.9 m

*not available for M10

M10-IT Standard Models (see price list for details)

- M10M-IT-D43: Indoor/Outdoor camera, VGA (640x480), L43 wide-angle lens
- M10M-IT-D135: Indoor/Outdoor camera, VGA (640x480), L135 tele lens
- M10D-IT-D43D135: Indoor/Outdoor **Dual** camera, VGA (640x480), L43 wide-angle and L135 tele lens
- Wall Mount: **Optional accessory** for mounting to walls or ceilings with fully concealed cabling

Standard Delivery Includes

- M10D-IT camera
  - Camera with two camera modules
  - two color image sensors with L43 wide-angle and L135 tele lens
  - Rubber cable protector
  - Adjustment ring for tele lens
  - Ethernet cable 3 m

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