

D10Di-night Technical Specifications

Dual-FixDome Day&Night IP Camera



D10Di: 1.3 Megapixel IP Camera System

The D10Di-night Fixdome camera is equipped with two independent camera modules, which can be freely positioned in (virtually) any direction. Each of the camera modules has a sensor resolution of 1280 x 960 pixels. In the night version, one module is fitted with a color sensor and a daylight lens, while the other is equipped with a black-and-white sensor and an IR lens. Depending on the prevailing light conditions, the D10Di-Night automatically switches from one module to the other, reliably, using no mechanical parts.

With 1280 x 960 pixels, the D10D has a resolution twelve times higher than that of CIF images from an analogue camera. Added features include the digital zoom, pan, video-motion-detection, a variable frame rate and the free selection of the frame segment, which can reduce the storage space required to a minimum. Alarm management with pre- and post-alarms, FTP, e-mail, external ring buffer recording on Windows or Linux servers, playback and multiview of up to 25 cameras in the browser are already integrated into the camera software.

The integrated ISDN, Ethernet and RS232 interfaces enable the use of all IT standards and GSM modules can also be connected. The indoor camera's power supply comes via the network cable (Dual Power-Over-Ethernet). The D10D-camera can be mounted on the wall or the ceiling with the wiring concealed in a cable duct.

Highlights

- Dual-sensor principle using two lenses as well as a color and an IR black-and-white sensor
- Microphone, speaker and PIR detector
- Bidirectional IP & ISDN telephony
- Audio transmission to the browser
- Definable zones for measuring exposure
- Integrated video-motion sensor system
- Nightvision with up to 1-second exposure times
- Digital zoom and panning
- Video/audio recording and playback
- Software DVR for Windows/Linux servers
- Alarm management with pre-/post-alarm
- 1 Mbps typical data throughput (640 x 480)
- Power supply via network cable

Dual Camera System

- Fully digital 1280 x 960 color CMOS image sensor (backlight compensation) and
- Digital 1280 x 960 black-and-white CMOS with eight times the sensitivity
- Two 8-mm standard wide-angle lenses: 5-lens glass lens 1:2.0 with 55° diagonal
- Optional: fisheye with 100° diagonal

Automatic Exposure

- Automatic exposure time from 0.1 ms to 1 s
- Configurable minimal and maximal shutter
- Freely definable exposure window
- Purely software-based control with exposure window, white balance, automatic contrast, sharpness filter, backlight correction
- MOBOTIX TrueColor software
- Individual control for each image sensor

Image Formats and Transmission Rate

- Color: 1280x960, 640x480, 320x240, 160x120
- Dual camera: 2560x960, 1280x480, 640x240
- Free image format selection with zoom and pan (e.g.. 1000 x 200 for the Skyline)
- Image formats: JPEG, Motion-JPEG, MxPEG, BMP
- Transmission rate with MxPEG (320 x 240): up to 25 fps
- Transmission rate with MxPEG (640 x 480): up to 12 fps
- Image size (320 x 240 JPEG): typ. 6 to 20 kB
- Time-controlled fade-out of image segments

Frame Storage

- Internal 64-MB frame storage (approx. 600 mega, 2,500 VGA, 4,000 CIF images or 6 min. of video)
- Event and/or time-controlled image storage
- Adjustable number of pre- and post-alarm images
- Playback via the browser with event search feature

Recording

- Integrated recording by the camera even on Windows or Linux servers
- Event-controlled individual image recording in JPEG format with pre- and post-alarm images
- Event-controlled video/audio recording in MxPEG with typ. 1.3 Mbps at 640 x 480 pixels

Video Management

- Ring buffer for up to 1 million alarms on the PC/server (without software installation or FTP!!!)
- Adjustable ring buffer and delete time
- Image management with time/date search feature
- Definable Multiview for up to 25 cameras
- Freely definable function keys
- Windows client with layout editor

Event/Alarm Control

- Freely definable time functions/repeats
- IR motion detector, switch input
- Temperature, brightness, volume
- Motion in definable video sensor fields
- TCP/IP message on IP port (network & ISDN)

Alarm Signaling

- Switch output and voice output locally
- E-mail or FTP via network or ISDN
- TCP/IP message on IP port (network & ISDN)
- Telephone call (list & PIN) with voice message

Audio

- Integrated microphone and speaker
- ISDN telephony (for outside calls with PIN)
- Voice-over-IP with Windows PC (and browser!)
- Individually recordable voice messages
- Outgoing IP message with DHCP via speaker
- Outgoing dynamic IP message for telephone call (patent pending)
- Touch-tone camera control via telephone
- Lip-synchronized audio recording (MxPEG)

Software

- No software installation necessary
- Live image and administration via web browser
- Entire 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 (Pocket PC-compatible)
- Homepage update via FTP as well as via ISDN
- Several cameras in a single browser window
- Simultaneous ISDN log on and off via PPP
- 3 access levels (Admin, User, Guest)
- Configuration file for all parameters

Power Supply

- Power input via data cable with concealed cable duct to the device
- Ethernet: 24...32V=; typ. 3W power consumption

Mechanics

- Plastic housing with clear and tinted dome included
- Weight: ca. 650 g
- Dimensions: Ø 201 x 110 mm (D x H)
- Temperature range: -20° to +50° C

Characteristics

- Hardware resolution:
1280 x 960 CMOS each for color & B/W
Free software format with zoom/pan
- Image/data rate for MxPEG video streaming (medium quality, 50% JPEG)

25 F/s	CIF (320x240)	1.2 Mbps
12 F/s	VGA (640x240)	1.3 Mbps
4 F/s	Mega (1280x960)	1.2 Mbps
- Day lens sensitivity (8 mm/2.0)
1 lux for 1/60 s - 0.05 lux for 1 sec
- Night/IR lens sensitivity (8 mm/2.0)
0.2 lux (1/60 s) - 0.005 lux for 1 sec
- Audio codec
64-kbps ISDN and SIP (IP telephony)
- Temperature: -20° ... +50° C

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