

## MOBOTIX - Digital Recording Network Camera no Software Installation or Plug-Ins

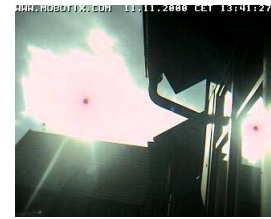
### *IP Security*

The MOBOTIX digital recording network camera is an all-in-one IP network camera, recorder, player, audio, motion sensor, ISDN, & video management solution.

### *Advantages at a glance*

The MOBOTIX camera has a unique new design and features a variety of innovations without the need to install additional software components:

- optimised automatic exposure on user-definable image areas for exposure & white balance
- digital MOBOTIX image optimiser for brilliant colour images



- dual lens system for parallel wide-angle and zoom images
- time and event-controlled home page updates via FTP & email-based image distribution
- integrated audio channel for event control and audio storage



- centralised uninterruptible power supply thro a network or ISDN connection
- time and event-controlled image storage either internally or on file servers
- integrated ISDN port for simultaneous dial-in for remote administration & internet dial-out
- weatherproof IP65 outdoor design(-20 to +60 °C; -4 to 140 °F) with combined wall mount
- computer-adjusted lenses at the factory reduce installation and maintenance costs
- very low network load of 1% at large video formats (640 x 480)

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## Outdoor version Wall Mounted

From £699.00 + VAT (Dependant on specification)

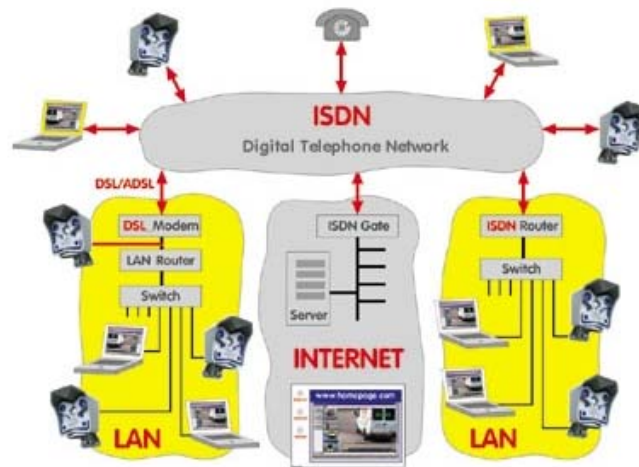
Installation charges variable subject to quotation.



## Indoor version Ceiling Mounted

From £975.00 + VAT (Dependant on specification)

The MOBOTIX digital camera transmits live video in large format (640x480) at minimal network load, saves several hundred images in the camera itself and automatically updates images on web sites or sends emails. Actions can be triggered time or event-controlled. The camera features an integrated computer and web server; Ethernet and ISDN ports are already integrated. Images can be live transmitted or stored on a Local area network or on a 'live' Internet link to enable monitoring or storage at a remote location.



For low light conditions or infrared lighting MOBOTIX offers special lenses or the **Day & Night camera** featuring two image sensors and two lenses (for daylight and night)

The MOBOTIX camera's integrated **software-based image enhancement facility** runs a white balance, contrast adjustment and a digital sharpness filter on every image, thus producing brilliant colour images. Exposure control using the freely configurable **exposure zones** provides for efficient control of backlight scenarios.

Due to its low power consumption (approx. 2 W), power can be **supplied directly through an ISDN line** or through the network cable. It does not require a 230V power outlet on-site. Moreover, using the centralised power supply provides for easy emergency power by UPS.

**No software installation** is required. Video images are loaded and camera parameters are set using a standard web browser (e.g. Explorer). Provided the camera is physically connected to it, it can be accessed through the Internet There are six different ways a MOBOTIX camera can be used over the internet: For this purpose the camera uses **FTP** or **SMTP** protocols. In addition, using the integrated standard ISDN port the camera autonomously dials into the Internet.

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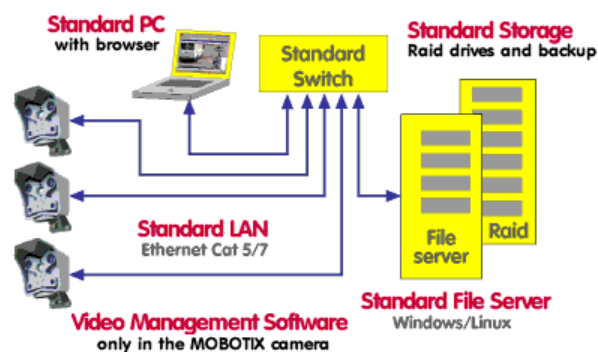
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As the **integrated sensors** (microphone, passive infrared (PIR) motion sensor, signal input) and the **video sensor** can react to movements in the image area, the camera can trigger event-controlled actions like recording and uploading images to the Internet.

## Internet Connectivity & functionality:

**1.Live:** The camera has a static public IP and users can access it through a router (via DSL or similar) directly from the Internet. Due to the large RAM and the specific internal structure of the camera's web server it can serve up to 25 users simultaneously. They are connected with static IP addresses through a firewall equipped with port mapping functionality.

**2. Updating a home page:** When the camera images are to be presented to a larger audience it would be too expensive to download them directly from the camera. Instead, the images are uploaded to a web server. In order to do so, the camera automatically dials into the Internet and uses the integrated FTP application to replace the defined image file (e.g. myImage.jpg) on the designated web site. On the web server, the images are typically stored for a certain period of time since "live" images may be illegitimate or unwanted. The camera can start an FTP image file at certain times of day (Time Tasks function), by events (Event Control) or a combination of both.



**3.Creating an hour-based image directory:** Some Internet applications require a new image every hour while providing access to the images of the last 24 hours. The camera can solve this task directly by creating several image files with an hour code (**hh**, as in <filename>hh.jpg). It will overwrite these files the next day at the same time.

**4. Log events:** When events are to be stored for a longer period of time, the MOBOTIX camera can save the images automatically to a time-related folder structure. The folder structure on the server is created automatically. For example, an image recorded on August 22, 2002 at about 17:45:33 is saved on the server to the folder with the following file name: cameraName/2002/08/22/17/filename.jpg The file itself can also be named "m020822174533.jpg" (where the syntax is: "m<yymmddhhmmss>.jpg").

**5.Swap events:** The camera can periodically export the events and image sequences recorded in the internal ring buffer to the Internet as compressed file. It also contains an HTML index file with an integrated player that can play back the image sequences in the browser.

**6. Send an email:** The camera can send an email with the current image triggered by certain events or based on the defined time tasks. All camera actions may be flexibly triggered by **time tasks** or **events**. For example: it is possible to use the integrated video motion detector to transfer an image when an individual enters the scene.

Saving to FTP is less appropriate on a local network (LAN), for here saving images directly to a file server (Windows, Linux) using the camera's integrated video management system is possible.

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## Standard Features

The **network CCTV concept** of MOBOTIX provides for long-term recording and management of video data on a standard file server (Linux, Windows) without installing any specific software. The database software and the search and play functions are shipped with the camera. **For archiving and playback purposes**, the MOBOTIX camera can simply use the integrated video management system and a standard file server (Windows 2000(tm), NT, XP Professional, Linux(tm) NFS). For the user, it does not make any difference whether the images are stored in volatile RAM (Secure model) or non-volatile flash (optional, 256 MB to 2 GB, internal installation).



The camera price includes video management, archiving, and playback functions.

For archiving purposes, neither the PC nor the file server, require the following: software installation, FTP server application, Web server application or video application.

The camera organises the folders, it writes, reads, deletes the images and folders, just like a regular PC on your workgroup's file server.

The advantages to the user are:

**unlimited scalability** of the storage capacity

**low network load** due to integrated image buffer

**unlimited system size** by using several file servers

**high data security** when using standard RAID and backup systems

**high reliability** when using 24/7-certified servers and hard disks

**high reliability**, since the system does not depend on central components

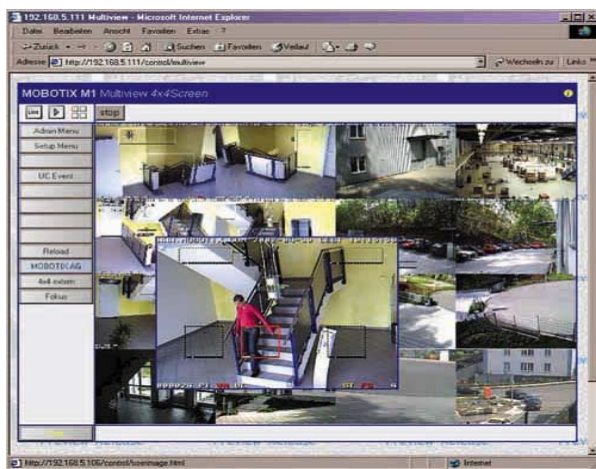
**efficient firewall capabilities**, since only the camera accesses the server

**automatic restart capability** after network or server downtimes

**multi-user capability** from any PC on the network without any license fees

**no software installation** required on any PC or server

Another MOBOTIX standard feature is **Multi View** which allows displaying several live and/or recorded images/events in one single browser window simultaneously.



You can assign any desired camera function to the configurable **soft buttons** on the left side. The camera can also be used to transmit control sequences via the serial interface, e.g. to control a PLC, a heating control system, or a telephone system.

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The wide functionality range of MOBOTIX cameras allow operation in fields varying from the Internet, industrial applications to professional security technology. The functions implemented in a camera model are present only in the integrated software. The hardware of all models is identical-except for the storage capacity. When a camera is delivered, the software is already contained. Camera control and playback of live and recorded images requires nothing but a browser (Explorer or Netscape). Even managing event-controlled recordings of a file server (Linux, Windows) no additional software has to be installed. It's all in the camera.

MOBOTIX publishes the latest software development stage as a **free** download on the Internet about every 6 months. The file for the update is identical for all camera models. Which function it activates or updates depends only on the camera type.

Here's a summary of the many reasons why we *actively* recommend MOBOTIX for you:

## Reliability

- robust design without moving parts in the camera and the optical system
- advanced CMOS image sensors for resist against sunlight and prevention of anti-blooming
- sophisticated hardware and software with low power consumption (2.5 Watt)

## Installation

- weatherproof IP65 outdoor design (-20 to +60 degrees Celsius; -4 to 140 degrees F)
- fixed lenses preset at the factory reduce installation and maintenance costs
- centralised uninterruptible power backup & supply through the network or ISDN connection
- integrated wall mount for easy but robust mounting

## Image Quality

- fdefinable image areas for automatic exposure provide for efficient backlight compensation
- digital MOBOTIX image optimiser for brilliant colour images and increased sharpness
- highest quality images through automatic toggling between daylight and infrared lens

## Compatibility

- no software installation
- no browser plug-ins
- no ActiveX

## Integrated Video Management Software

- recorder/player integrated in camera
- can store up to 2,400 images within the camera
- almost no network traffic due to integration into camera
- data management on standard file server (Windows/Linux)
- live images and recordings viewable from every computer
- multi-user operation without licensing costs
- image search via the network

## Internet Access

- dial-in via ISDN or network to an FTP or email-server
- automatic date/time-based folder structure
- variables used to generate image file names
- automatic archiving (WinZip) of event image sequences via FTP

## Money Well Spent

- a fully digital and software-oriented design
- adaptable to future requirements by a simple software upload via browser
- free support and free software updates

For further design specifications visit the Mobotix website: <http://www.mobotix.com/>

For a full presentation of the features & benefits of Mobotix call Nigel on 024 76 474 124 today!