

Mirasys N series

Network Video Management System





Mirasys N series: Top Class Network Video Surveillance with Invincible Features

Mirasys N series is a state-of-the-art, high performance software for network video surveillance applications of any type, scope, and size. It fulfils the requirements of even the most challenging security applications.

Mirasys N series software brings you highly efficient tools for managing and analyzing video, audio and text data as well as alarms. The open platform also enables faster and easier integration with other systems and partner plug-ins.

Advanced Motion Detection

For each camera, it is possible to select areas where motion is detected and to adjust the sensitivity of detection. Each camera can have several different detection settings that can be used at different times.

The adaptive motion detection method used by the system adjusts to continuous movement in the camera view, such as moving tree leaves, snow or rain, and learns to filter these out. Similarly, the system adapts to small movements of camera. This leads to a lower number of false alarms and a faster response to incidents.

Secure Multi-Disk Recording

Mirasys N series NVRs record on multiple hard disk units. This modified RAID 0 recording format divides data between disk units in short sequences. Should a hard disk fail, the system automatically ignores the faulty unit and records only on the functioning hard disks. This ensures that a minimal amount of data is lost.

Software Watchdog

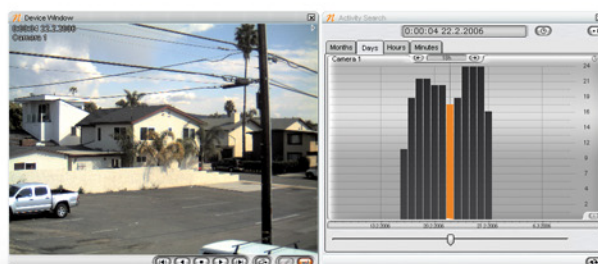
Mirasys N series includes a Watchdog to help the system recover from unexpected events and to inform the user of those events. This is done by e-mail notification to one or several e-mail addresses.

Search Tools

Activity Search

Activity Search shows the amount of recorded data in a column chart. It is possible to examine recorded data from as many as eight video, audio and text channels at the same time. All channels are automatically synchronized and the synchronized data can be replayed with just one click of the mouse.

The time scale can be chosen between months, days, hours, and minutes. A slide control is available for fast movement on the time scale.



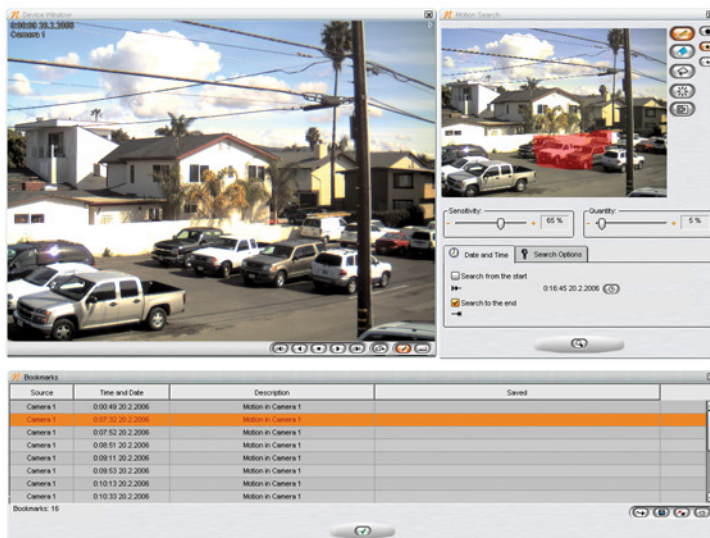
Motion Search

Motion Search finds images that contain motion in specified areas of the camera view. You can freely specify the shape, size, and number of areas to search.

Motion Search is launched from the playback window. The start and end times/dates can be set. The search results are listed in the bookmark list.

Bookmark List

Users can mark any recordings with a bookmark. These markings are stored on the bookmark list, where they can be easily retrieved again.



Digital Zoom & Other Image Tools

Zoom and other image tools can be used on real-time and recorded video. The image tools only affect displayed images while the original ones are recorded unchanged.

An area in a camera window (real-time or playback) can be zoomed. It is possible to adjust the dimensions of the zoomed area. A new camera window is opened to display the zoomed area.

It is also possible to sharpen, equalize, deinterlace, mirror, or flip the image, reduce noise or find edges in the image, toggle between color and grayscale and, adjust the contrast and brightness of the image.

Alarm Management

An alarm is triggered by an event such as motion in the camera view, changes in the sound level or an input signal from an external device, for example a detector or a card reader. Another type of event can be a missing camera signal or a full hard disk.

The activation of alarms is controlled with a calendar tool. There is also a year calendar for public holidays or other exceptional days. If the trigger to the alarm is motion in camera view, the calendar tool defines also which calendar mask is used. Alarm settings always override other settings.

Alarm responses include alarm video and/or audio recording, adding the alarm on the alarm list, activating a digital output, turning a dome camera to a preset position and directing a camera signal to a video output. Several alarms can also be connected. This allows the system to perform multiple tasks as a response to an event.

In addition, it is possible to have alarm windows appear on the screen automatically.

Megapixel Cameras

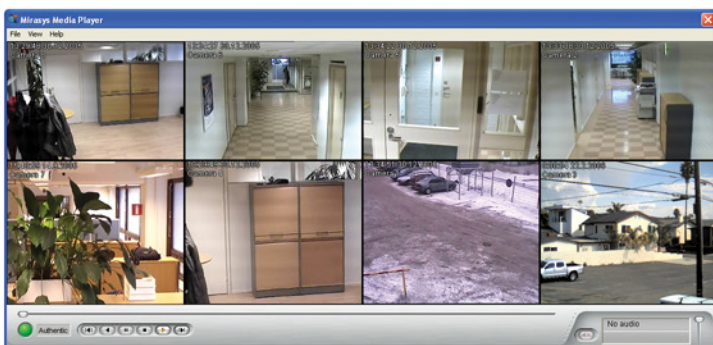
Mirasys N series supports the high-resolution images delivered by megapixel cameras. With only one megapixel camera, users can monitor a wide area and then zoom in to an area of interest. The zoomed area is displayed in a separate window so that the wide view and the zoomed area can be viewed simultaneously. Due to the high resolution of the images, important details such as facial features or license plate numbers can be clearly seen.

Dome Cameras

Dome cameras can be panned, tilted, and zoomed through the Workstation interface. Camera positions can be saved and recalled quickly. A home position as well as camera tours can also be programmed.

Camera Tours

Dome camera tours can be easily created. In a dome camera tour, the camera moves automatically from one position to the other. It is also possible to create camera tours where video is shown in sequence from different cameras.



Mirasys Media Player can be used to play media clips. The clips can contain data from up to 8 video and/or audio channels. All data can be played synchronously. Single images can also be printed. In addition, the player verifies the authenticity of the media clips. The player is automatically exported with media clips and saved to the same folder as the clip.

Profiles & User-Defined Desktop Views

A profile sets a user's rights in the NVR system. It contains all the cameras, audio devices, digital inputs and outputs, video outputs, external programs and alarms that a user has access to. Each user has at least one and a maximum of five profiles.

Every user has a username and a password, which are registered in System Manager. There are three types of user accounts in the NVR system.

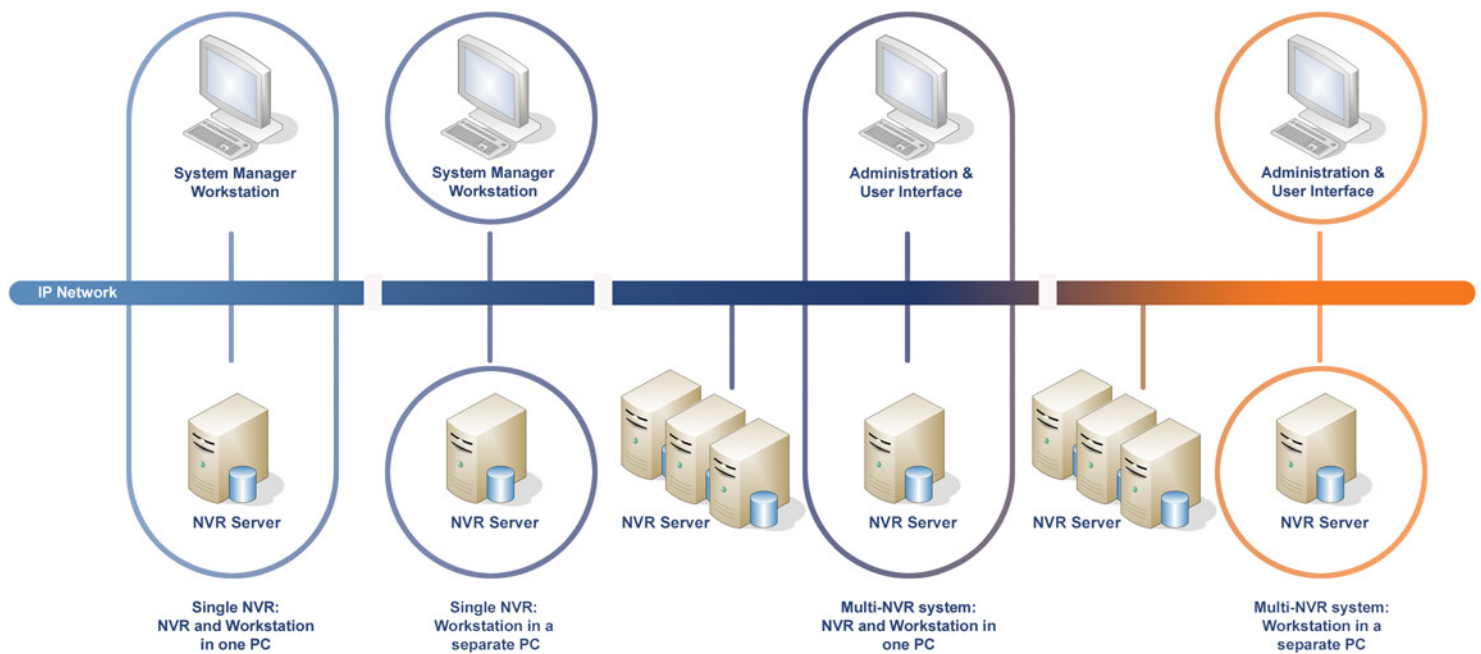
Each user can create several user-defined layout views. These are saved under the user name.

One-Click Media Clip Export to CD/DVD

Media clips of any length can be exported to CD/DVD or other media. A clip can contain data from several video and audio devices. Clips are exported simply with a click of the mouse. Clips are stored as Windows Media files, which means that they can be played with Windows Media Player or other media management software. For clip authentication purposes, a separate Mirasys Media Player is necessary.

More Value to a System

Mirasys N series NVRs are able to acquire and process text data from other systems (e.g. cash registers and ATM devices). Recorded text stream data can be searched by using Activity Search or Text Search. Real time and recorded text data can be viewed and exported in synchronization with video and audio data.



The system consists of one or several NVRs, one or several Workstations, a System Manager and peripheral devices. The Workstations can be installed in same computer as the NVR, but they can also reside on separate computers in the same network.

True Scalability and Flexibility

The Mirasys N series is scalable from a single, local network video recorder all the way to a large distributed surveillance system with integration to other security systems. The open architecture based on IP technology enables easy upgrading and adaptation to operational and user requirements.

6 Key Features

- 1** One NVR allows recording of video from up to 50 channels simultaneously - with e.g. 100 NVRs you get 5,000 video channels in one system
- 2** NVRs are image resolution independent and support even megapixel cameras
- 3** Simultaneous support for JPEG and MPEG-4 network cameras from all leading manufacturers
- 4** One NVR allows recording of audio from up to 16 channels simultaneously and supports bidirectional VoIP for door or gate phone applications
- 5** Built-in modified RAID 0 for secure data recording
- 6** One-click media clip export to CD/DVD. Data is watermarked, and media clips authenticated with Mirasys Media Player



Mirasys Ltd, established in 1997, is a leading software provider for video surveillance solutions. Based in Helsinki, Finland, Mirasys cooperates globally with the leading security service providers, system integrators, and technology manufacturers. With over 160 000 cameras managed through their software, Mirasys has a proven track record on high end security segments such as banks, retail, logistics, schools, government, and law enforcement.

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