



Control your space
with video surveillance

Enterprise Video Management

Software & Appliances



Mirasys NVR Enterprise

Datasheet, November 2013

Cutting-Edge Enterprise Grade IP Surveillance Solution

Mirasys NVR Enterprise is a feature rich video surveillance solution that scales easily to suit the needs of businesses of all sizes. The system supports up to 6,400 analog and/or IP cameras in one centrally managed environment. All cameras can be managed as a single system independent of location. Mirasys NVR Enterprise can be extended with intelligent VCA and ANPR solutions, and due to its openness, it is easy to integrate with other systems. The user interface is available in 19 languages.

Features

- **Powerful VMS** – Up to 100 recorders and 6400 cameras in one centrally managed environment
- **Wide camera support** – Supports thousands of IP camera models from all major camera manufacturers
- **Customisable** – Plugins to enable multi-stream, multi-cast, two-way audio, Video Analytics, ANPR and management reports
- **Flexible** – Open platform architecture supports Access Control, Intruder Alarm and Video Analytics from a wide variety of 3rd party partners

Recording

- Recording of MJPEG, MPEG-4, and H.264 video from up to 64 analogue and IP cameras, audio (optional up to 128 channels), and text data to 32 channels per recorder
- Supports a wide range of IP cameras and IP video servers from the leading camera manufacturers. Generic support for ACTi, Arecont Vision, Axis, Bosch, Elmo, Hikvision, IQEye, JVC, Messoa, Mobotix, Panasonic, Pelco, Pixord, Samsung, Sanyo, Seorim, Sony, UDP, Vido, and Vivotek cameras
- Supports recording from IP video servers with analogue cameras
- Resolution independent and especially designed for high resolutions
- Continuous, motion-based, and event-triggered recording modes
- Adaptive motion detection adjusts to continuous movement
- Weekly and holidays recording schedule for each camera
- Up to a year storage depending on hard disk capacity
- Scheduled backup copies of recorded video data once a day or once a week saved to a local or a network drive



Local & Remote Monitoring

- Monitoring: Simultaneous live view, record and playback
- Layouts: Ready-made layouts and the option to save your own customised multi-screen layouts
- Maps: Multi-layered maps to access devices and show alarms

PTZ & Tracking

- Automatic object detections and tracking with digital zoom
- PTZ: Manual control, preset positions, camera tours, joystick control, turn to preset position on alarm event, turn to home position when idle
- Joystick control: DirectX compatible USB joysticks (e.g. Axis) and Pelco KBD300 via RS485/232 connection

Alarm Event

- Event triggers: motion/no motion in camera view, text data input from 3rd party system (i.e. video analytics, access control etc), digital input
- Actions: email, text message, camera/audio recording, increase fps/resolution, digital output, dome pre-set/tour
- Alarm schedules: separate weekly schedule for each alarm; special schedules for holidays

Search & Export

- Advanced search tools: Graphical Activity Search, Motion Search, Date & Time Search, Text Search, Alarm Search.
- Image export: Single images as JPEG, GIF, TIFF, PNG, and BMP files
- Video export: Video image as AVI, Matroska (MKV), and ASF (WMV) files
- Original video clip authentication: With stand-alone Mirasys Media Player

Management

- User authentication: User names, passwords, user profiles (1 to 5 profiles per user)
- 10 users per single system
- Three user levels: Users, users with monitoring rights, and administrators.
- Watermarking to guarantee the authenticity of recorded data
- Modified RAID 0 recording: Data can be recorded on several hard disk units to eliminate loss of data in case of a disk failure

System Requirements

- Supports Windows 7 and 8
- Supported languages: Arabic, Chinese (simplified), Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Icelandic, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Thai



First Class Entry Level IP Surveillance Solution

Mirasys NVR Pro is single-server IP video recording software that runs on a standard Windows PC. It contains all the functionality of any professional network video recording (NVR) solution, such as continuous 24/7 recording, real-time monitoring, playback, and intelligent motion detection. The software is suitable for areas or buildings that can be covered with up to 50 cameras. Thanks to its rich set of features, it is an ideal entry-level package with advanced functionality and compelling cost of ownership.

Features

- **Cost-effective** – Attractively priced solution with professional features. Easily expandable
- **VMS** – Single server IP recording and viewing software for up to 50 cameras
- **Mobile** – Free Spotter Mobile application for iPhone, iPad and Android
- **Reliable** – Mirasys' unique non-fragmenting RAID0 video storage
- **Expandable** – Easy to expand to multi-server, richly featured Mirasys NVR Enterprise

Recording

- Recording of MJPEG, MPEG-4, and H.264 video from 1 to 50 analogue and IP cameras, audio to 16 channels, and text data to 32 channels per recorder
- Supports a wide range of IP cameras and IP video servers from the leading camera manufacturers. Generic support for ACTi, Arecont Vision, Axis, Bosch, Elmo, Hikvision, IQEye, JVC, Messoa, Mobotix, Panasonic, Pelco, Pixord, Samsung, Sanyo, Seorim, Sony, UDP, Vido, and Vivotek cameras
- Supports recording from IP video servers with analogue cameras
- Resolution independent and especially designed for high resolutions
- Continuous, motion-based, and event-triggered recording modes
- Adaptive motion detection adjusts to continuous movement
- Weekly and holidays recording schedule for each camera
- Up to a year's storage depending on hard disk capacity
- Scheduled backup copies of recorded video data

Local & Remote Monitoring

- Monitoring: Simultaneous live view, record and playback
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- Maps: Multi-layered maps to access devices and show alarms



Mirasys NVR Pro

Datasheet, November 2013

PTZ & Tracking

- Automatic object detections and tracking with digital zoom
- PTZ: Manual control, preset positions, camera tours, joystick control, turn to preset position on alarm event, turn to home position when idle
- Joystick control: DirectX compatible USB joysticks (incl. Axis) and Pelco KBD300 via RS485/232 connection

Search & Export

- Advanced search tools: Graphical Activity Search, Motion Search, Date & Time Search, Text Search and Alarm Search
- Image export: single images as JPEG, GIF, TIFF, PNG, and BMP files
- Video export: video image as AVI, Matroska (MKV), and ASF (WMV) files
- Original video clip authentication: with stand-alone Mirasys Media Player

Management

- User authentication: user names, passwords, user profiles (1 to 5 profiles per user)
- 5 users per single system
- Three user levels: users, users with monitoring rights, and administrators
- Watermarking to guarantee the authenticity of recorded data
- Modified RAID 0 recording: Data can be recorded on several hard disk units to eliminate loss of data in case of a disk failure



System Requirements

- Supports Windows 7 and 8
- Supported languages: Arabic, Chinese (simplified), Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Icelandic, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Thai

Alarm Event

- Event triggers: motion/no motion in camera view, text data input from 3rd party system (i.e. video analytics, access control etc.), digital input
- Actions: Recording of video, alarm output, show video on analog monitor, turn dome camera to preset position, start a dome camera tour, set motion detection mask, send e-mail
- Alarm schedules: separate weekly schedule for each alarm; special schedules for holidays

Microsoft
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Partner



Mirasys Spotter Mobile

Datasheet, May 2013

Mobile Access to Video for iPad, iPhone, iPod, and Android

Mirasys Spotter Mobile brings true mobility to video surveillance. It allows remote access to video surveillance footage via various mobile devices – such as phones, PDAs and hand-held tablets. Authorized personnel can use Spotter Mobile when roaming, whether that be on-site, or from elsewhere. This supports situational awareness for first responders; provides security professionals with a more adaptable method for mobile monitoring; and much more.

Features

- **Ease of use** – Free download from App stores provides an intuitive interface for viewing live camera or playback recordings
- **Powerful** – Clear image quality with flick to zoom facility. Control PTZ cameras and switches, and resolve alarms.
- **Fast** – Single tap to send snapshot via email
- **Flexible** – Ability to access across multiple sites

How to get started

You can download the Spotter Mobile easily to your iPhone, iPad or iPod touch from the Apple App Store. For Android based devices, visit the Android Market. Once downloaded, the application contains local demo video and a connection to Mirasys server.





Mirasys Spotter Mobile

Datasheet, May 2013

View Real-time and Playback Video

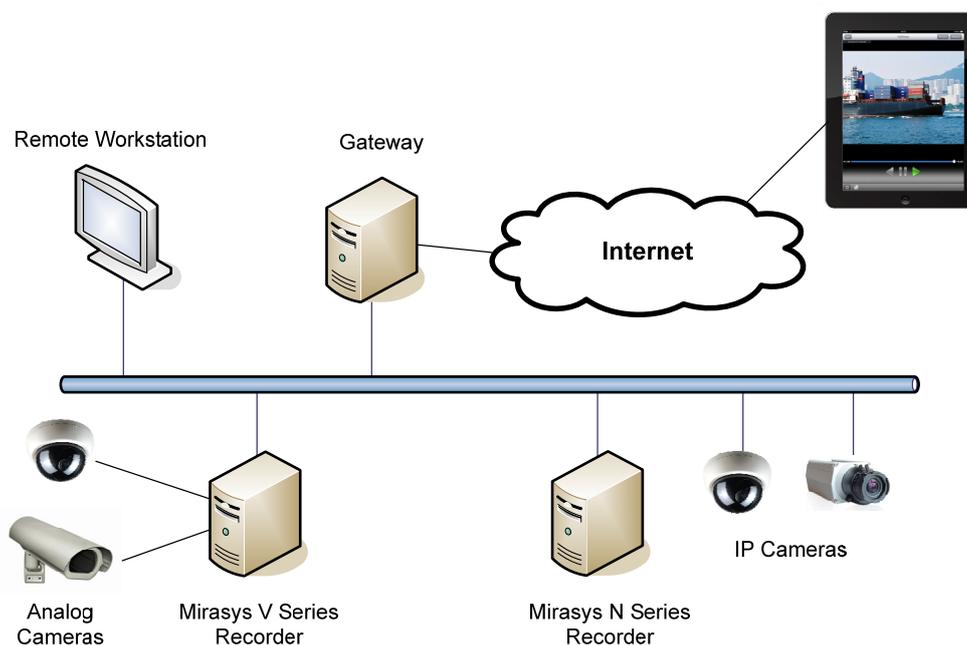
- Sites can be easily configured and directly accessed from Mirasys Spotter
- Each site can include up to 100 Mirasys recorders and 6,400 cameras
- View live video from any camera attached to the system
- Zoom in to the streaming video easily
- Easy date/time searching for video footage
- Still images can be sent via email as JPEG files
- PTZ control: Manual control, pre-set positions, camera tours
- I/O controls, such as doors and lights, can be controlled via Spotter Mobile
- Receive triggered alarms via email

Connectivity

- Supports WLAN and 3G networks, as available in the specific device
- Connection to Mirasys VMS Enterprise through the Gateway service
- No further components need to be opened for Internet / mobile connectivity
- Setting user authentication based on username / password information to allow remote access to authenticated users only

Supported Devices

- Supports iPhone, Android, iPad and iPod Touch devices, with iOS 3.X and 4.X operating systems
- All cameras supported by Mirasys VMS – included ACTi, Arecont Vision, Axis, Bosch, Elmo, Hikvision, IQEye, JVC, Messoa, Mobotix, Panasonic, Pelco, Pixord, Samsung, Sanyo, Seorim, Sony, UDP, Vido, and Vivotek and more.





Mirasys Carbon Video Analytics

Datasheet, May 2013

Powerful Video Analytics for Surveillance and Business Intelligence

Mirasys Carbon VCA Platform enables seamless integration of intelligent analytics modules into the market leading Mirasys video management system. The rich and open interfaces of the platform allow any type of VCA solution to be integrated – whether running in the edge (camera), network or recorder – with no changes required in the Mirasys VMS itself.

Mirasys Carbon VCA Surveillance is a built-in solution for both IP and analog cameras, providing a cost-effective easy-to-implement solution targeted for advanced protection and monitoring. It is a general purpose analytics package aimed at intruder detection, flow analysis, counting, tampering detection, and many other commercial and government CCTV applications.

Features

- **Powerful** – Pre-packaged integrated analytics available per camera. Supports full VCA functionality with camera stabilization, object classification and enter/exit, direction, stopping, dwell time, speed etc. filtering
- **Reliable** – Tested and approved for high-accuracy detection and recognition. Meta-data is saved to common database for easy searching, and tamper detection mechanisms to prevent camera vandalism and data forging
- **Flexible** – Open platform integration with leading 3rd party analysis solutions; includes two built-in applications for counting and full VCA

Video Analytics Package

- Can be implemented either as a counting functionality or with full VCA functionality
- Includes tampering detection mechanism to prevent camera vandalism
- Easy-to-use, graphical configuration tool for camera calibration and generating the zones, lines and rules for VCA events
- Full forensic metadata storage in XML format
- VCA functionality includes a full set of filters, such as enters/exits, dwell time, tripwire, object detection/removal and speed detection
- Can select on a camera-by-camera basis the most appropriate analytics functionality to be used
- Web based reporting tool



Mirasys Carbon Video Analytics

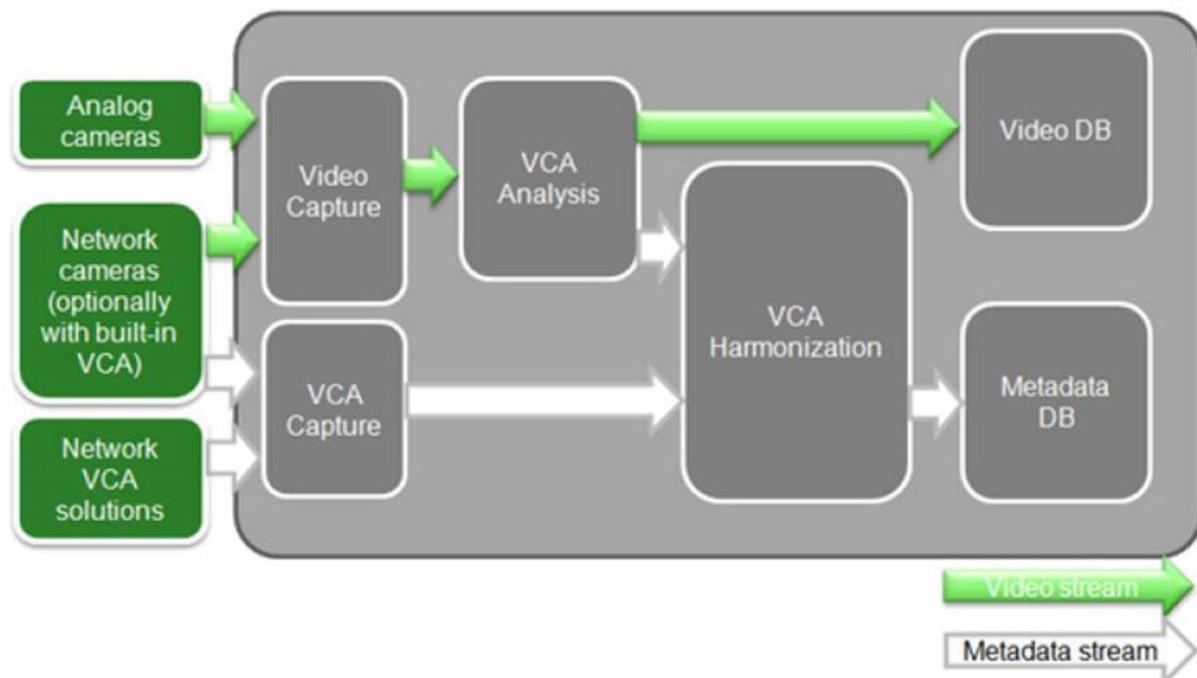
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Counting Function

- Set object counts based on object classification and movement direction
- Fully integrated with the Mirasys Video Management Solution
- Can be used on any camera added to the system
- IP and analogue camera support
- Create multiple counting zones on one camera
- Object distinction – car, bike, person
- Highly accurate self-training analytics engine
- Web based reporting tool for flow analysis and daily/weekly/monthly/yearly visitor statistics

Architecture

Mirasys Carbon Video Analytics platform consists of a set of interfaces and API's allowing different types of analytics solutions to be easily integrated to the Mirasys VMS. Analytics meta-data, such as object coordinates and properties, is captured through XML- configurable network interfaces. Once captured, then the semantics of different meta-data languages is harmonised and the data is checked against alarm rules. Finally the data is stored into an open database for later search and retrieval.





Mirasys Carbon Master Server

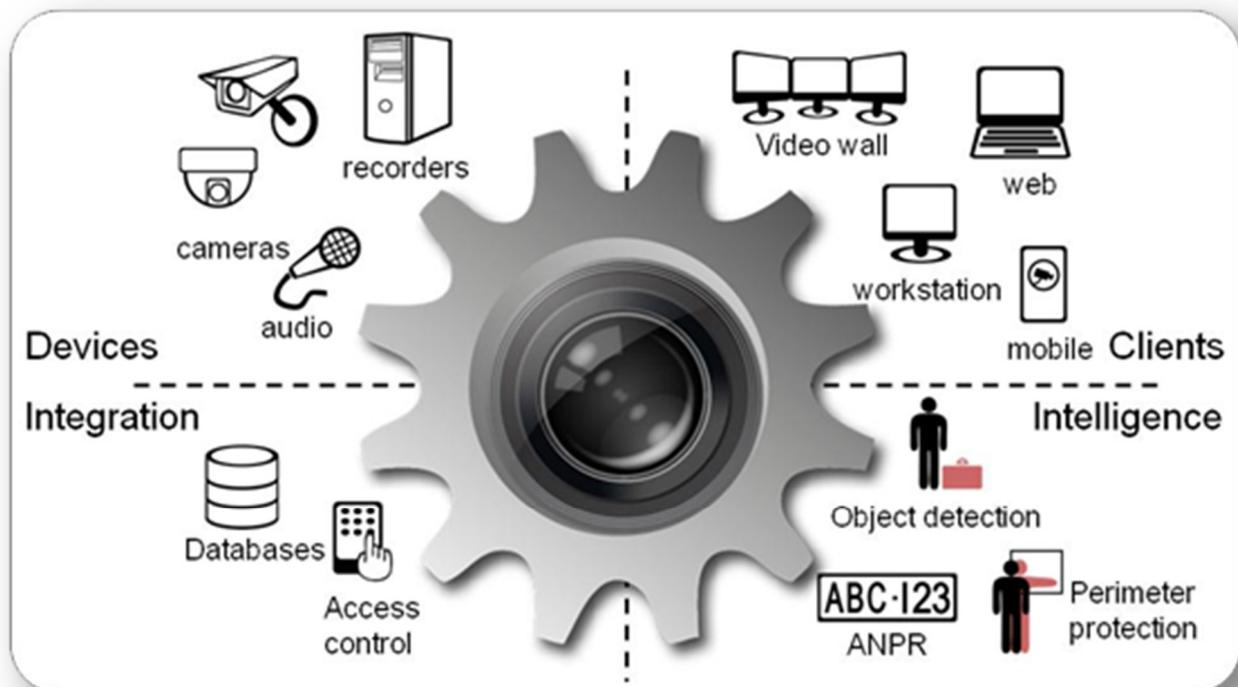
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Powerful Surveillance Software for Control Centers

Mirasys Carbon Master Server provides an unprecedented level of scalability, performance and intelligence to any video surveillance system. Each Carbon Master Server can support up to 100 recorders, each with up to 64 IP and analog cameras. By combining Carbon Master Servers, a system can support thousands of video recorders and hundreds of thousands of cameras in an easily manageable frame. Optional video wall, reporting, VCA, and ANPR solutions further enhance the centralized surveillance and management capabilities.

Features

- **Powerful** – Up to 100 recorders and 6400 cameras in one single site; multiple sites can be easily connected
- **Flexible clients** – Multiple easy-to-use client options – ranging from mobile, web and workstation applications to an optional video wall solution
- **LDAP support** – Supports external LDAP user group management, enabling users to be synchronized from domain groups
- **Easy integration** – Open interfaces and SDK for seamless integration to other systems and devices.





Mirasys Carbon Master Server

Datasheet, May 2013

Recorders & Cameras

- Carbon Master Server supports all current Mirasys recorders
- Wide range of analog and IP cameras and IP video servers from the leading camera manufacturers including ACTi, Arecont Vision, Axis, Bosch, Elmo, Hikvision, IQEye, JVC, Messoa, Mobotix, Panasonic, Pelco, Pixord, Samsung, Sanyo, Seorim, Sony, UDP, Vido, and Vivotek cameras

Real-time viewing and playback

- Full featured Windows workstation client application – up to 64 open video windows and 16 synchronized playback channels
- Feature rich Web client – no client application installation needed
- Next generation user interface: Mirasys Spotter for Windows
- Easy-to-use mobile client applications – Spotter for iPhone, iPad, and Android
- 2-way IP audio for recordable audio solutions

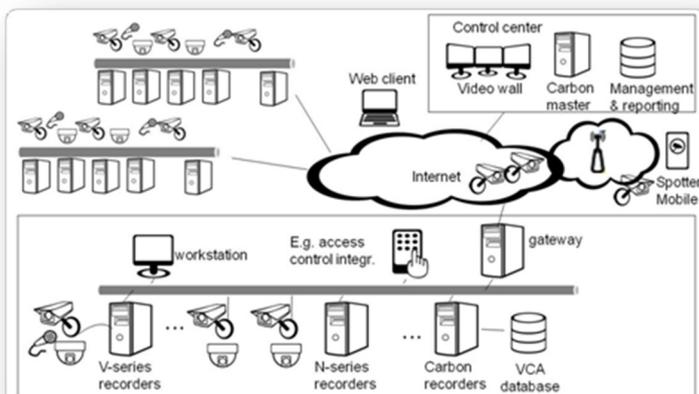
Manageability and robustness

- Centralized camera, user, and profile management
- Continuous monitoring of the system state, alarms for malfunctions
- Audit trail and alarm logging and reporting
- Non-fragmenting file system prevents hard disk failures
- Secure multi-disk recording

Networking

- Flexible and extremely customizable networking models through a wide range of interfaces
- Multiple sites can be combined easily to create large-scale complexes
- Enables both distributed and centralized systems, as well as sites with both centralized and distributed components and sub-sites

Integration to other systems



- Flexible and extremely customizable networking models through a wide range of interfaces (see the image below)
- Multiple sites can be combined easily to create large-scale complexes
- Enables both distributed and centralized systems, as well as sites with both centralized and distributed components and sub-sites