

## Professional IP-based audio and video surveillance



NETAVIS is an open, secure and robust software platform for IP-based audio and video surveillance offering live viewing, recording, alarm management and image analysis. The standard XML interface allows easy integration with many different security systems and business applications. With hundreds of successful implementations in Europe and the Middle East, many customers, from retail, banking, industry, logistics and public sectors rely on NETAVIS.

### NETAVIS Observer II advantages:

#### Open

- Free choice of hardware (cameras, servers, clients, etc.)
- Matchless system scalability (from 1 to more than 10,000 cameras)
- Reuse existing analog infrastructure (e.g. cameras)
- Freely programmable alarm and Event Management System (EMS)
- Standard XML interface for systems integrations (SNAP)

#### Secure

- Secure software architecture (communication exclusively via port 80)
- Freely definable authorization system (user groups, camera access rights, etc.)
- Encrypted data transfer between system components
- Manipulation-safe archive stream export (SAFE format)
- Regular audits of NETAVIS by independent, certified security experts

#### Robust

- Highly available operating system (especially for critical security applications)
- Failsafe operation with intelligent interconnected server cluster (NETAVIS server cluster)
- Automatic recovery functions (e.g. in the case of power failures)
- Segmented recording protects stored video sequences
- Redundant hardware solutions and storage systems supported (e.g. IP SAN)



**NEW!** NETAVIS Mobile Client  
for mobile devices



**NEW!** NETAVIS Image Analysis with  
iCAT (Image Content Analysis Toolbox)



Online Monitor  
and Archive

## Live monitoring with online monitor

Unlimited number of digital and analog cameras in arbitrary views from full screen to matrices with 10 by 10 images

- Unparalleled ease of use
- Fully bidirectional audio communication to MPEG4 cameras
- Works in a standard web browser on standard PCs or mobile devices (no complicated installation or configuration necessary)
- Predefined and freely definable camera views
- PTZ control with mouse or joystick, preset positions and route functions that can be triggered by motion detection

## Recording

- Recording of image and audio data in JPEG and MPEG formats
- Recording control via time, alarm, motion, external events or manually storage size and recording quality flexibly definable
- Intelligent dynamic storage management with prioritization for important cameras
- Unique timezoom function for fast archive search
- Export formats: JPEG, AVI, MPEG4 and SAFE (manipulation-safe export)
- Segmented recording for high data security even in the case of hardware failure (software RAID)
- Anonymization of Audio Recordings

## Event and alarm management

- All events and alarms are stored in a powerful event database for documentation and subsequent retrieval
- Alarm via e-mail, SMS, XML integration and I/O contacts
- Bidirectional Alarm Management to the Layout Navigation Tool

## Programmable Event Management System (EMS)

- Free definition of event types and related actions
- The control flow of NETAVIS can be freely programmed. Examples: start recording, switch cameras on the main monitor, send SMS or e-mail, switch I/O contacts, send messages to external systems, etc.

## Programmable Motion-Detection (MD)

- Support for server-based and in-camera motion detection
- Server-based motion detection via changes in pixels, color or brightness
- Control of other functions with EMS-based motion detection events (see above)
- Archive Motion Detection

## NETAVIS server cluster (distributed NETAVIS, server cluster)

- Powerful functions for building, operating and managing server clusters
- Geographical distribution of servers possible (also worldwide)
- Central server cluster management (but without central weak points)
- Failsafe function enables function of defective server to be assumed automatically
- Distributed upgrade to all servers automatically
- Floating License in server network

## HTTP/XML interface (SNAP)

- Data and control integration with external applications and systems (e.g. master control, access control, alarm systems, POS systems, etc.)
- Virtually the full NETAVIS functionality can be accessed via SNAP. Examples: exchange of live and recorded video data and events
- Availability for Java and .NET

## Image content analysis toolkit (iCAT)

- Built-in detection: removed object detection, abandoned object detection, camera moved (image content change detection), camera covered (abrupt darkness detection), camera glared (abrupt brightness detection)
- Interfaces to leading image content analysis providers

## Data security

- All video and configuration data on a NETAVIS server are stored in specially secured partitions, protected by multiple levels of security
- The transmission of video data between clients and servers is secure thanks to an ultra fast encryption mechanism
- The authentication data (such as user names and passwords) transferred between clients and servers are encrypted by powerful MD5 encryption

## Multi-language

- English, German, Croatian, Serbian, Czech, Hungarian, Arabic, Russian
- Selectable online via mouse click
- Additional languages are being added continually

## System requirements

NETAVIS Observer II minimum server requirements:

- Fully compliant to RedHat
- Hard disks IDE/SATA/IP-SAN/RAID/NAS
- Intel Pentium 4 starting from 2.0GHz or Athlon XP 2000 (Intel optimized)

NETAVIS Observer II Client Desktop PC:

- The Observer II application either runs in a standard web browser (no installation necessary) or as locally installed client (MS Window only)
- Operating system: MS Windows XP, Vista, 2000 SP4 or later, NT4/SP6 or later Linux, Sun Solaris, HP-UX and any operating system that supports Sun Java Runtime Environment (JRE) 5 or later
- Intel Pentium 4 starting from 2.0GHz to Intel Xeon
- For the browser-based client: Standard web browser with support for Sun Java JRE 5

NETAVIS Observer II Mobile Client:

- PDAs and Pocket PCs with Windows Mobile 2003 and 5
- Smartphones with Windows Mobile 2003 and 5
- Any mobile device with support for Java Midlets (J2ME)

## Supported video sources

- NETAVIS supports analog and IP-cameras from many different vendors
- Supported streaming formats of IP-cameras: MJPEG and MPEG4 incl. audio
- IP cameras: Axis, Mobotix, Panasonic, ACTI and Sony. On our website ([www.netavis.net](http://www.netavis.net)) you will find a detailed and up-to-date list of all supported video sources

## Optional modules

- NETAVIS Car Reader for number plate recognition and gate integration
- NETAVIS Layout-Navigation for powerful navigation
- NETAVIS UNBUNDLED for the installation on a pre-installed OS (RedHat, Centos)
- Client on server possibility



## VIDEOR TECHNICAL

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