Alnet Systems Inc.

NetStation:
Open Platform
Network Video Surveillance System

NetHybrid:
Open Platform
Hybrid Video Surveillance System

NetHybrid HD:
Open Platform
Hybrid Video Surveillance System HD-SDI

CMS Professional:
Advanced Powerful
Remote Client Software

CMS Mobile:
Video Client
Software For Mobile Devices

About Us

Alnet Systems Inc., for nearly 10 years has engaged in developing digital video recording software for CCTV systems. The first line of products named VDR-S series has been installed on over 70,000 systems worldwide.

Many years of experience allows us to create reliable solutions that are also very functional. For over 7 years we have been developing systems designed for IP cameras.

Currently offered are hybrid systems named NetHybrid as well as strictly IP systems named NetStation, both are "open platform" types. NetHybrid and NetStation are systems for the most demanding customers who seek reliable and professional solutions.

Our engineers are constantly working on developing features to meet new market demands. Intensive development, focused on intelligent image analysis will soon bring us to a new era in video security systems.

NetStation:

Open Platform Network Video Surveillance System

NetStation open platform software was developed to be implemented on installations consisting from four to hundreds of IP cameras. Full scalability of the software allows you to fine-tune the size of the system to meet customer needs.

Thanks to an extensive network possibilities NetStation software is perfectly suited for surveillance sites scattered across large areas. Constant updates provide the guarantee that you always have at your disposal the latest solutions in line with current market trends.

Thanks to the open software architecture, the user is free to choose from nearly 1,000 integrated IP cameras from all major manufacturers. The software has been developed for over 7 years and works on about 70 000 installations worldwide, which confirms the high reliability and functionality.

NetStation software is compatible with the newest IP camera solutions utilizing the HDTV standard. Mega-Pixel IP Cameras which provide video at resolutions, several times greater than PAL/NTSC, which will be a common industry standard in all future installations. The use of Mega-Pixel cameras will change the quality and reliability of CCTV systems.

The Advanced Client Software named CMS allows for an unlimited amount of remote connections to access live video streams, recorded video, and many other functions from one location. There are also clients available for Mobile Devices. The application is considered one of the most advanced and expanded application for monitoring CCTV systems. The application can be used on devices equipped with SymbianOS / iOS / Android / BlackBerry and Windows Mobile Operating Systems.

System specification:

Up to 512 cameras in one system

Up to 32 cameras in one server

Support for Video Analytics

Advanced motion detection

Bookmark Function

Advanced archive browser

PTZ control

Digital zoom

Alarm Inputs and outputs support

Advanced Scheduler

Easy to use GUI
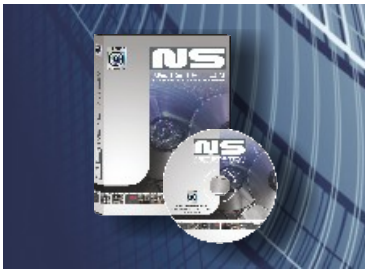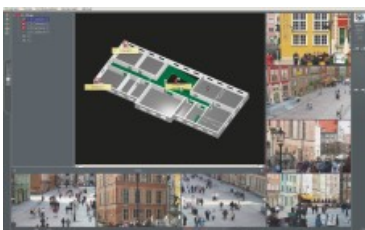
Multi level e-maps

Back-up function
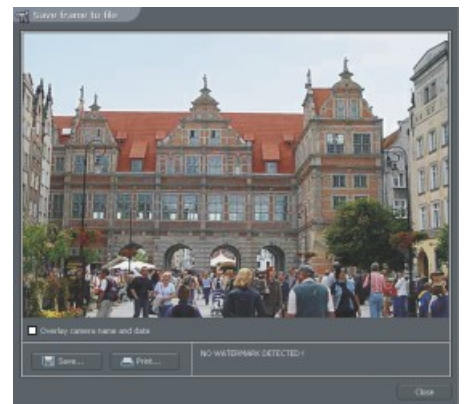
Powerful CMS Client software
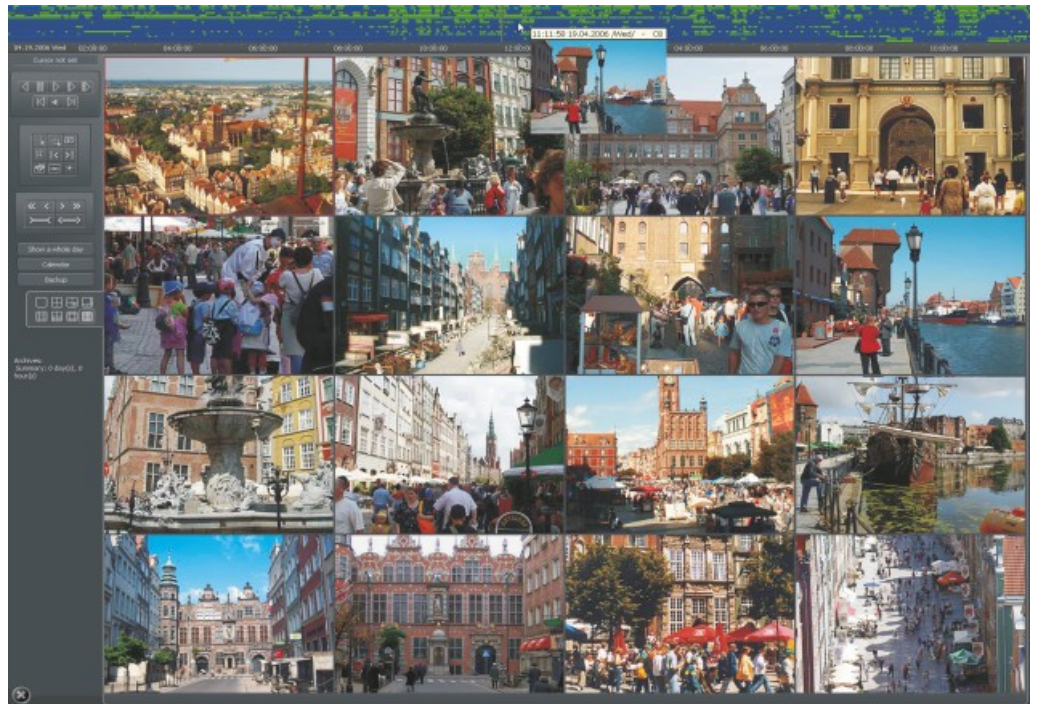
Multi stream support
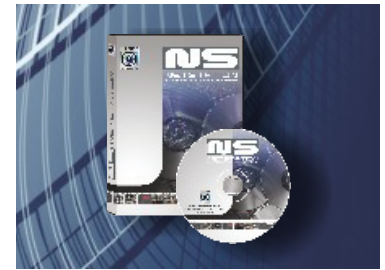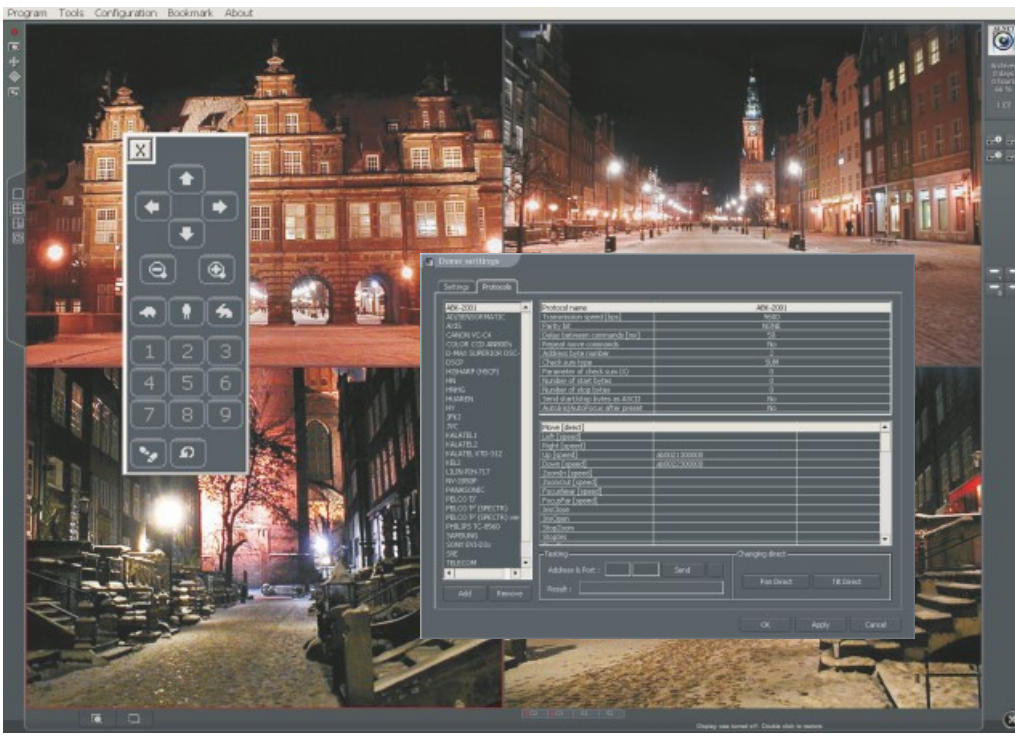
Multi layer user accounts

The Archive menu in the NetStation system is highly advanced and simultaneously very simple to operate, while reviewing and managing archived video. Recording for each camera channel in the archives creates its own timeline, which clearly shows all the events that occurred to initiate recording. This creates an easy and functional way to localize and view events that occurred. The recordings are shown the same way, using a timeline in the archives. In the archives, as the operator rolls over the timeline, a new preview window is displayed, where fast playback either forward or backward can be initiated. The speed of the playback using the roll over function depends on the speed that the mouse is moved at across the timeline. The Archive Control Panel speed settings provides for functions such as forward/reverse playback with three speed selections, normal, 2x and 4x. Searching for specific motion areas is an advanced feature, which allows for better analyzing of specific areas of recorded video. All events that are found can be marked with bookmarks, for later review, and easy access. Bookmarks can be placed manually in the archives, they can be user initiated, or can be done automatically upon Input Activation.

The Camera Configuration menu allows for the precise configuration of all camera parameters on all individual cameras. Multilevel menus allow for easy to understand tools that are available for each camera. Motion detection is one of the tools available in the camera configuration, where sensitivity and object masking are essential for each camera, especially for areas with constant motion.

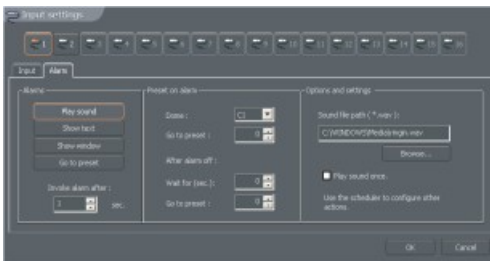A specialized photo album stores screenshots of cameras where they can be watermarked, and printed with ease from specific events. The intuitive backup function allows for fast and trouble free ways to backup your archived data to any device e.g. DVD, CD, or network storage. Also options such as backing up to video files e.g. AVI, this way they can be played back on most PC's without additional software having to be installed.

NetStation allows for the connection of up to 32 PTZ cameras. Controlling of the P/T/Z functions, can either be done manually using the keyboard, joystick, mouse or the on screen control panel. Wide range of supported domes made by several manufacturers, provide great compatibility. Preset Control is an option that can be set manually on PTZ cameras, so specific cameras can monitor larger areas.
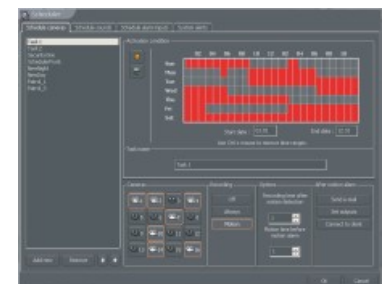

The control of Digital Inputs and Outputs is a seamless process, as a number of programmed events can be programmed to be invoked based on specific inputs. Functions as moving a PTZ camera to a preset, start recording and controlling outputs, can be invoked using a simple input such as a motion sensor, doorbell or any other input.

Extended sound channel control is a strong feature of the NetStation software. It is possible to record up to 32 audio channels from IP cameras. Recorded sound can easily be browsed in the archives alongside with video recordings. Recording based upon sound detection is useful as it allows to record whole events even when motion is not necessarily detected. Tools for sound detection allow the precise tuning of all parameters available for sound.

To make any CCTV system function correctly, a precise system of predefined times and actions is required. Included in the NetStation software is a very advanced scheduler with a multitude of options available to control all functions.

All camera recorded events, sound events, system alerts and even inputs and outputs can be specified to do specific options such as turn on recording, send output, connect to client, and emailing notifications.

The connecting to remote client function is especially useful as no one is able to constantly monitor a CCTV System, and this would automatically show someone what action is happening and where.

The scheduler is based on a 24/7 system where any time frame can be specified to run on set times and events.

NetHybrid:

Open Platform Hybrid Video Surveillance System

System specification:

Up to 32 analog cameras

Up to 16 IP cameras

25,50,100,200,400, 800 frames per second for displaying and recording

High image resolutions CIF, 2CIF, 4CIF, D1, HDTV (IP)

DJPEG, MPEG4, JPEG, H.264 compression

Advanced motion detection

PTZ dome control (mouse, keyboard, Joystick)

Programable alarm inputs and switches

Advanced archive browser

Watermark

Recording and "live" playback of up to 32 audio channels

E-mail and SMS notification

Dynamic IP server

Client application for Windows 7, Windows Mobile, SymbianOS, iPhone, BlackBerry, Android.

Alnet Systems NetHybrid is a professional solution for digital recording and remote transmission created for use in modern CCTV systems. Advanced techniques of compression and transmission of video allow for remote viewing of video with HDTV quality, even using a slower connection such as GSM/EDGE.

Advanced system settings allow for precise setting of each parameter such as: resolution, displayed frame-rate, and recording frame rate.

NetHybrid system based on hardware and software components allows the usability of a maximum of 32 Analog Cameras and 16 IP cameras.

Hybrid solutions are useful in installations where an existing Analog installation is present, and camera expansions are based on IP. In such cases, the NetHybrid system is a very scalable and flexible solution which at a low cost allows the migration of Analog and IP Technologies in one system. Support for many IP Cameras Manufacturers allows project managers multiple choices as many solutions to each project. Functions such as Digital Zoom, Dynamic Resolution, and Transfer of Video, allows for practical solutions using Megapixel IP Cameras.

Remote connections to NetHybrid are possible with the help of free client software - CMS Professional. Utilizing TCP/IP protocols it is capable of connecting to an unlimited number of servers in multiple locations. Expanded functionality, quality video archives, and high-speed transmission of video are only some of the features available in CMS Professional.

Besides Client applications for Windows 7, entire families of professional solutions exist dedicated for mobile applications utilizing Windows Mobile, SymbianOS, BlackBerry, iPhone and Android.

System overwiev	
NH PRO Series	Cost effective non-realtime hybrid system with software compression
NH RT Series	Economic real time hybrid system with software compression
NH AVC Series	High performance real time D1 system with H.264 hardware compression

NH - NetHybrid		PRO4/25/xIP	PRO8/50/xIP	PRO12/75/xIP	PRO16/100/xIP
Analog video inputs		4	8	12	16
IP inputs (optional)		0/4/8/12/16	0/4/8/12/16	0/4/8/12/16	0/4/8/12/16
Audio inputs (with AudExt)		1	2	3	4
ConExt module(s)		1	2	3	4
FPS PAL/NTSC	CIF	25/30	50/60	75/90	100/120
	2CIF	25/30	50/60	75/90	100/120
	4CIF	16/20	32/40	48/60	64/80
PC Slot Type		1 x PCI	2 x PCI	3 x PCI	4 x PCI

NH (NetHybrid)		AVC 16/400/xIP/1 LT	AVC 32/800/xIP/2 LT
Analog video inputs		16	32
IP inputs (optional)		0/4/8/12/16	0
Audio inputs		16	32
VRC7008ALM module(s)		1 / 2	1/2/3/4
FPS PAL/NTSC	CIF	320/400	640/800
	2CIF	320/400	640/800
	D1	320/400	640/800
PC Slot Type		1 x PCIe	2 x PCIe

NH (NetHybrid)		AVC 8/200/xIP/1	AVC 16/400/xIP/2	AVC 24/600/xIP/3	AVC 32/800/xIP/4	AVC 16/400/xIP/1	AVC 32/800/0IP/2
Analog video inputs		8	16	24	32	16	32
IP inputs (optional)		0/4/8/12/16	0/4/8/12/16	4/8/2000	0	0/4/8/12/16	0
Audio inputs		8	16	24	32	16	32
VRC7008ALM module(s)		1	1 / 2	1 / 2 / 3	1 / 2 / 3 / 4	1 / 2	1 / 2 / 3 / 4
FPS PAL/NTSC	CIF	200/240	400/480	600/720	800/960	400/480	800/960
	2 CIF	200/240	400/480	600/720	800/960	400/480	800/960
	D1	200/240	400/480	600/720	800/960	400/480	800/960
PC Slot Type		1 x PCIe	2 x PCIe	3 x PCIe	4 x PCIe	1 x PCIe	2 x PCIe

Digital inputs / outputs module	ConExt0404	ConExt1604	VRC7008ALM
Digital inputs	4	16	8
Digital outputs	4	4	8
RS 485	Yes	Yes	Yes

Audio input module	AudExt1	AudExt2
Audio inputs	1	4

System specification:

Up to 16 HDcctv inputs

Up to 16 D1 25/30 fps analog CCTV inputs

Up to 16 IP inputs

H.264 compression

720p / 1080p video at 25/30 fps

SMTPE 292M format

no latency

no compression for "live" picture

NetHybrid HD is the newest innovation from Alnet Systems. This Hybrid digital video recorder is designated to cooperate with standards for HDCCTV cameras (HD-SDI). This is the first solution of this type on the market allowing video recording from three different technologies (CCTV + IP + HDCCTV) on one system.

This system allows unlimited possibilities for modernization of existing installation as well as for building and upgrading future installations to any combinations specified by the client. Currently standard HDcctv (HD-SDI) in version 1.0 allows to stream video signal in two different resolutions 720p (1280 x 720) and 1080p (1920 x 1080). Progressive scan allows picture to be at best quality and can be compare to picture from Blu-Ray DVD player. HDCCTV (HD-SDI) system has all the best characteristics offer by analog TV and IP. The quality of the picture delivery from HDCCTV camera (HD-SDI) is a lot better than the picture offered by IP cameras with similar resolution. These are some of the direct benefits of using three different solutions: Picture is not compress, transmission is not packet and there is no delay. Do to these characteristics it happens that picture is crystal clear and very smooth even when PTZ camera is in motion. Installations of these cameras require basic knowledge of analog systems. There is no need for training session on how to setup a network.
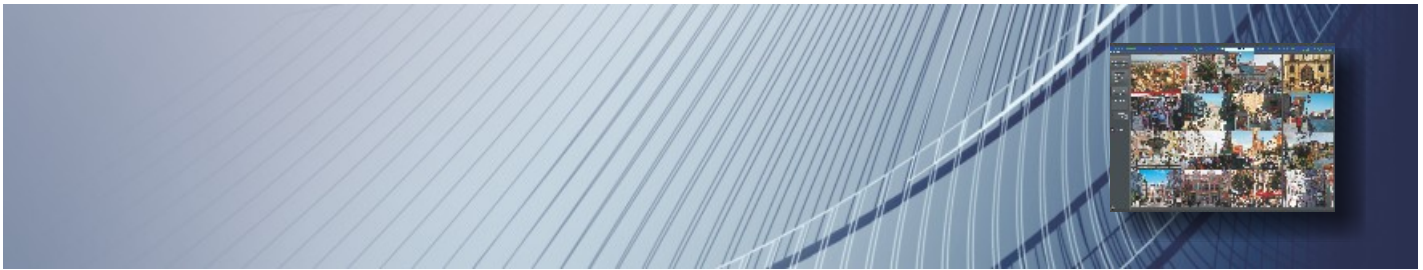
Second important argument is that to install HDCCTV (HD-SDI) cameras it's possible to use same existing coax cables for analog cameras CCTV. In many cases modernization of the system to improve picture quality will not require to build a new network and use of IP cameras which is not always possible or cost effective.

NH HD - NetHybrid HD	NH HD 4/0/0/xIP*	NH HD 8/0/0IP*	NH HD 12/0/0IP*	NH HD 16/0/0IP*	NH HD 4/AVC8/xIP*	NH HD 4/AVC16/xIP*
HD-SDI video inputs	4	8	12	16	4	4
IP inputs (*optional)	4/8/12/16	4/8/12/16	4/8/12/16	4/8/12/16	4/8/12/16	4/8/12/16
Analog video inputs	0	0	0	0	8	16
Audio inputs (analog cameras)	0	0	0	0	8	16
VRC7008ALM module(s)	1	2	3	4	2	2
FPS PAL/NTSC @ D1 (analog cameras)	0	0	0	0	200/240	400/480
PCIe Slots	1	2	3	4	2	2

NH HD - NetHybrid HD	NH HD 8/AVC8/xIP*	NH HD 8/AVC16/xIP*	NH HD 12/AVC8/xIP*	NH HD 12/AVC16/xIP*	NH HD 16/AVC8/xIP*	NH HD 16/AVC16/xIP*
HD-SDI video inputs	8	8	12	12	16	16
IP inputs (*optional)	4/8/12/16	4/8	4/8/12	4	4/8	0
Analog video inputs	8	16	8	16	8	16
Audio inputs (analog cameras)	8	16	8	16	8	16
VRC7008ALM module(s)	3	3	4	4	5	5
FPS PAL/NTSC @ D1 (analog cameras)	200/240	400/480	200/240	400/480	200/240	400/480
PCIe Slots	3	3	4	4	5	5

CMS Professional:
Advanced Powerful Remote Client Software

CMS Professional is an advanced client application that works in conjunction with NetStation and NetHybrid Servers. The software provides the capability of remote monitoring both one location and large systems consisting of several hundred servers no matter the distance between them. Expanded support for eight monitors makes the CMS application suitable for advanced monitoring stations in an inexpensive and fast installation.

A special synoptic table is able to check up to a 1000 NetStation/NetHybrid server simultaneously with full reporting capability. Advanced functionality allows the operator to have quick access to all the basic functions necessary for everyday use. Specially designed system of dynamic video optimization allows the CMS application to stream multiple cameras effectively using low bandwidth consumption. This type of solution is extremely useful with servers that record using Mega-Pixel cameras.Each client application has the capability of recording video streams from Alnet servers, creating a redundant backup in case of server damage. Recorded streams can be easily accessed through the Archive module, which contains all of the same functions that are available on the server. The advanced timeline allows for a quick and effective way to search for events in the recordings, and bookmarks help facilitate the marking of events to be watched at a later date. If the event needs to be exported, it can be easily done using the backup/AVI function.

System specification:

Multi monitor support,

Multi server connection support,

Remote servers status monitoring,

Advanced remot archive files support,

Up to 64 cameras on one screen,

Advanced PTZ control,

I/O control,

Multi level e-maps,

Automatic bandwitdh control,

Advanced digital zoom,

Local recordnig support,

Multi layout support,
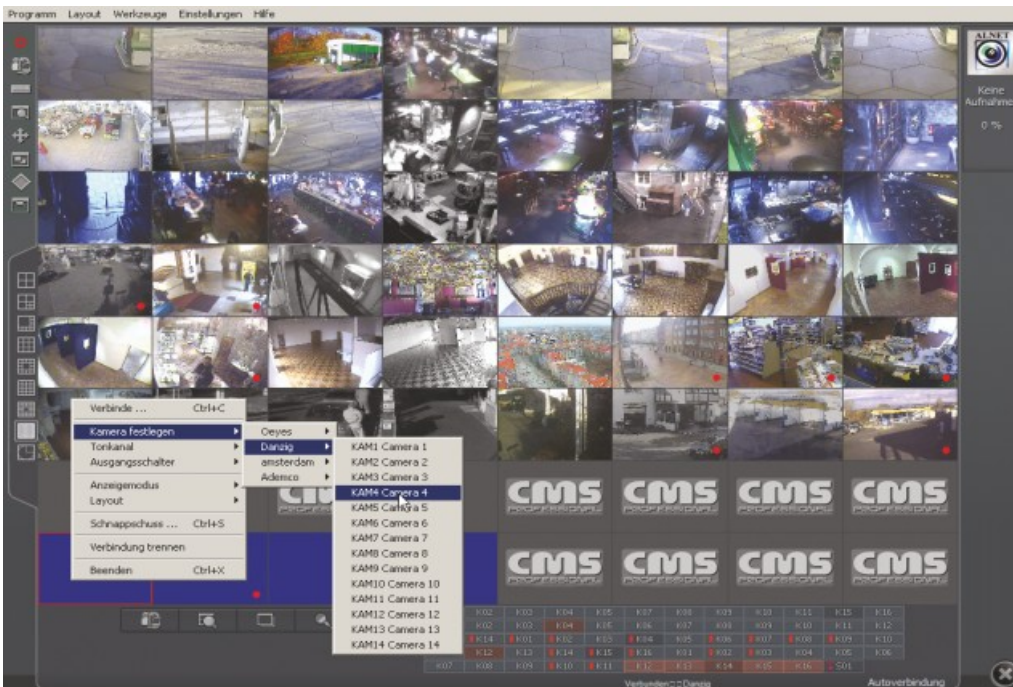
Back-up function,

Multi stream suppot,

Export evidence,

Audio support,

Advanced user accounts administration,

Easy to use GUI.

With extensive installations utilizing a large number of cameras, an E-map is a very useful tool to locate cameras in a given area. The ability to have multi-level building plans, allows for the easy monitoring of all cameras in any sized building.
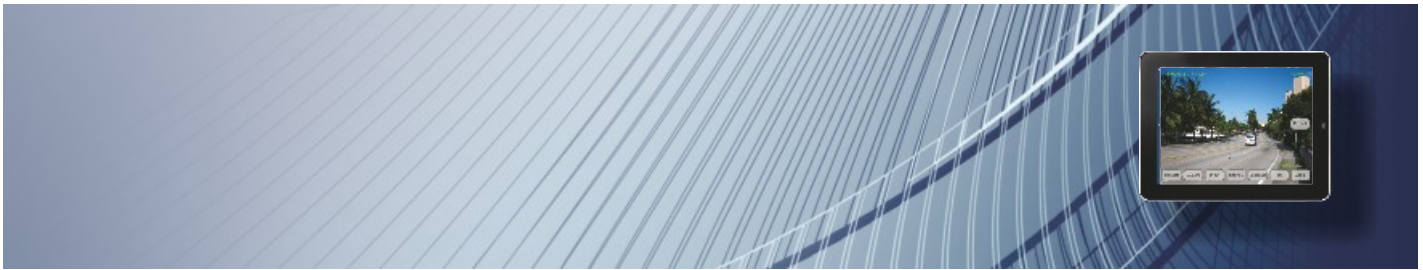
CMS Professional client software can be used for continuous monitoring, or it can be automatically initialized based on an event that occurred on the server. It can simultaneously connect to 16 locations at once and stream video with the ability to display 64 cameras per monitor or 512 cameras per video wall. Included with the functions of the CMS application, it is possible to check the presence of the operator and to set custom and dynamic layouts of different cameras.

The CMS application is designed around the server layout so it is very easy to train new personnel. With the Alnet CMS it does not take weeks of training to fully utilize its functions as it was professionally designed with the user in mind.

INTERNET

CMS Mobile:
Video Client Software For Mobile Devices

Alnet Systems' CMS Mobile application, designed for mobile phones and PDA, is currently one of the most advanced solutions on the market. CMS Mobile allows remote access to NetStation / NetHybrid servers from almost everywhere on the planet. Applications are available in versions for all mobile devices with Symbian OS, Windows Mobile, Blackberry or Android.

Thanks to the innovative solutions in the field of image compression CMS Mobile is an excellent solution for remote monitoring through low bandwidth networks GSM/EDGE. In spite of low bandwidth offered by GSM providers the image on CMS Mobile is fluent and high quality.

CMS Mobile application installed on a PDA with wireless transmission (WI-FI) is perfect for use by guards patrolling large areas. Now there is no need for permanent contact between guards and control room, images from cameras are always available on the PDA - immediately and everywhere. Such solutions make guards more efficient and in many cases allow personnel reduction. CMS Mobile, thanks to high image quality and vast functionality makes NetStation / NetHybrid remote monitoring systems more flexible and easier to use. System allows "live" view from all the cameras installed on the NetStation / NetHybrid servers.

Developed archive files menu allows quick and precise archive browsing recorded on remote server. Clear and "user friendly" PTZ dome control panel and digital input / output menu fulfils functionality of the system.

System specification:

PTZ Control,

PTZ Presets,

I/O Control,

Digital Zoom,

Megapixel camera support,

Dynamic Bandwidth Control,

Remote Archive files,

Multiserver connection,

Easy to use GUI,

Free of charge,

Multiplatform support:

www.alnetsystems.com