

Digital Video Management

for **Video** and **Audio** Surveillance

The new **STANDARD** in integrated DVR servers



digital video management

Recording of digital images and audio from up to 16 channels simultaneously

Ability to integrate seamlessly with AmanoNet Access Control Software

Stackable - up to 5 recorders in a system

Support for analog and IP cameras

High resolution images

Support for PTZ camera control

Bidirectional voice-over-IP audio for door/gate applications

Media clip export to CD/DVD

A Scalable & Flexible DVR Solution . . .

The Amano V Series is a Digital Video Management System (DVMS) for video and audio surveillance applications. The system is based on standard Microsoft .NET / PC platform, distributed and modular architecture and TCP/IP data communications. Amano DVMS is scalable from a single, local video recorder all the way to a large distributed surveillance network, fulfilling the requirements of any vertical segment including:

Commercial Markets

Banks and financial institutions, retail and wholesale, casinos, manufacturing industry, sports and entertainment;

Government Agencies

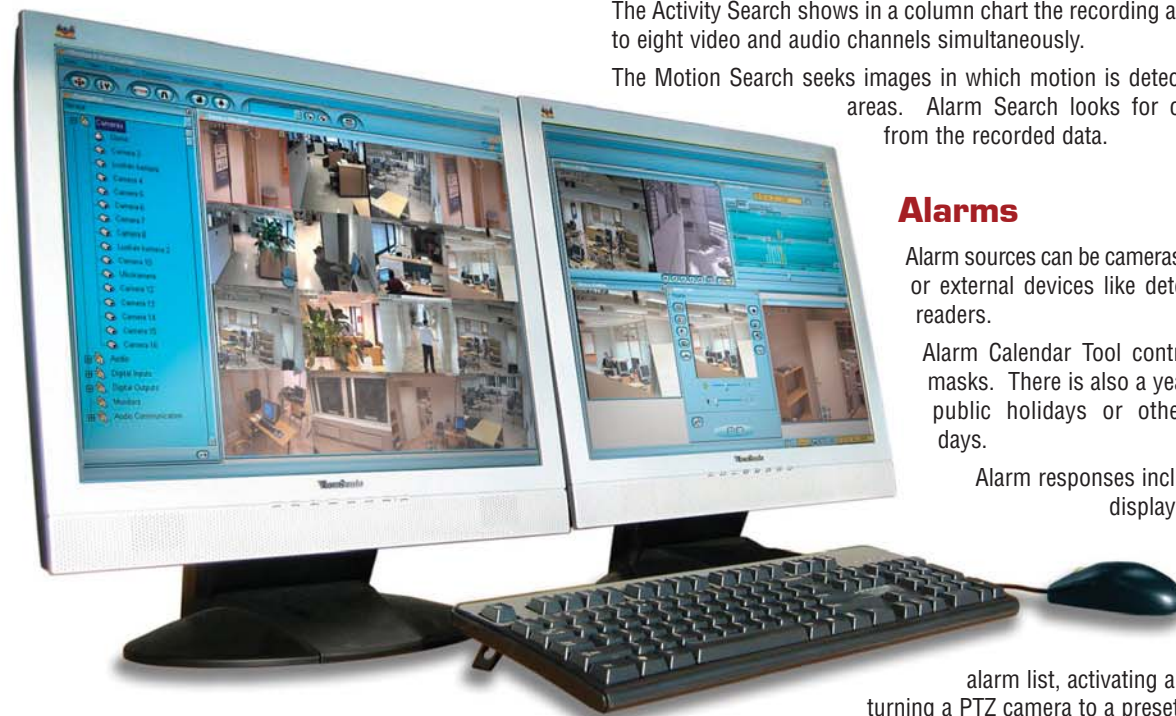
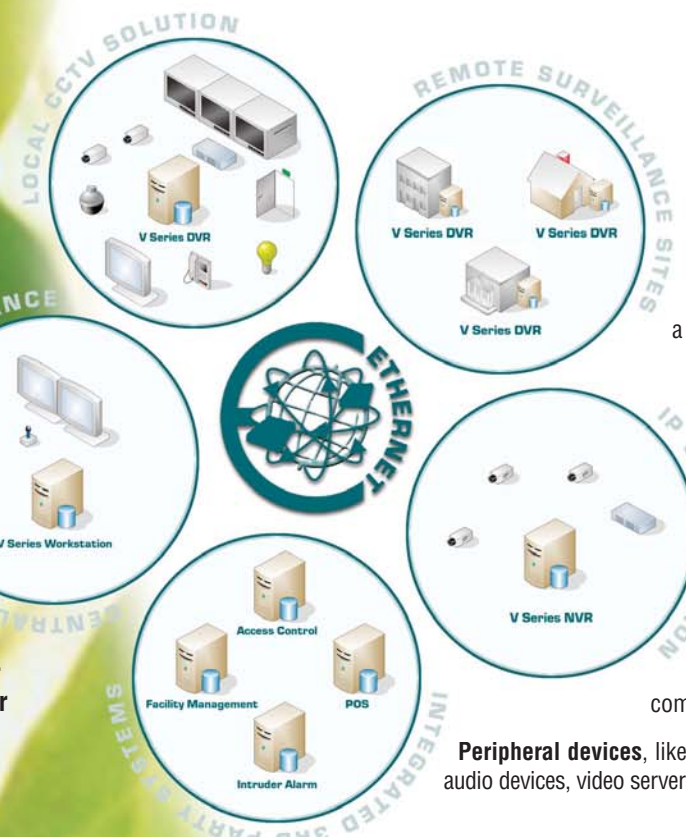
Homeland security, law enforcement, energy and facilities, military, schools and universities;

Traffic, Transportation and Logistics

Public transportation, logistics services, airports, ports and shipping, traffic management.

Advanced Motion Detection

Adaptive motion detection adapts to continuous movements in the camera view, such as trees, leaves, snow or rain and learns to filter these out from detected motion. Similarly, the system adapts to small movements of camera caused by wind. This leads to lower number of false alarms and better DVR functionality.



Amano V Series

Amano V Series is a fully scalable system consisting of one to five recorders, one or several workstations, a System Manager and peripheral devices.

Amano V Series DVR and NVR recorders acquire video and audio data from analog or IP cameras and audio sources, analyze it and store it on hard disks.

Workstations are used for daily operation of the system, such as real-time and recorded video display, alarm management and data search.

System Manager runs in the background as a service and controls the system and data communication as well as users and profiles.

Peripheral devices, like video matrices, PTZ cameras, keyboard controllers, audio devices, video servers and monitors, are an integral part of Amano V series.

Multiplexed Live Video

The V Series DVR has a local live display mode allowing multiplexed images to be shown on the PC monitor or on an adjoining analog TV monitor. Users can freely choose from several multiplexed formats and drag-and-drop images to any order.

Image Search

Recorded data can be searched and played. Links to search results can be added to a bookmark list, where they can easily be retrieved again.

The Activity Search shows in a column chart the recording activity from up to eight video and audio channels simultaneously.

The Motion Search seeks images in which motion is detected in marked areas. Alarm Search looks for chosen alarms from the recorded data.

Alarms

Alarm sources can be cameras, microphones or external devices like detectors or card readers.

Alarm Calendar Tool controls the alarm masks. There is also a year calendar for public holidays or other exceptional days.

Alarm responses include recording, displaying a real-time or playback camera window, adding the alarm on the alarm list, activating a digital output, turning a PTZ camera to a preset or directing a camera signal to a video output.

One Click Data Export

Media clips can be exported from even a multiview playback window. The window can encompass audio and video devices. The length of the clip is freely selectable and exporting is done with one click of the mouse. The clips can be stored on hard disk, CD/DVD or other media.

User-Defined Layouts

Device windows can be opened on the screen of any attached workstation, local or remote. The user can choose either real-time or playback view. Group device windows containing video, audio and I/O devices can also be created. Layouts are saved under the user name.

Remote Management

Amano V Workstation and System Manager offer the user access to the DVRs over the TCP/IP network from virtually anywhere in the world. The V Series DVR and NVR are also Amano RMC compliant for control room applications.

MULTIPLEXED LIVE VIDEO



ACTIVITY SEARCH



ONE CLICK DATA EXPORT



Operational

Digital Video Recording System

Amano V Series includes secure multi-disk recording. In this modified RAID 0 recording format, images and audio recordings are divided between disk units in short sequences. This ensures that minimum amount of data is lost in case of disk failure.

Storage capacity	320GB standard (2*160GB), larger capacity optional (up to 900GB)
Archiving format	DVD±RW, optional NAS / RAID
Record modes	Motion detection, sound level-based, continuous or alarm-based all according to calendar masks
Video standard	NTSC/PAL
Operating system	Windows® XP Pro
Compression	JPEG or WM9 (Enhanced MPEG-4)

Audio

Amano V Series supports bidirectional audio (voice-over-IP). The system can be used as a door or gate phone between surveillance site and control room.

Channels	1 stereo/2 mono ch as standard, software supports up to 16 channels
Devices	Support for USB and PCI audio devices
Sampling	22 kHz
Recording	Compressed / uncompressed

Events

Settings	Event source (motion, digital input, no signal, audio high/low, connected alarm), pre- and post-event recording duration, digital output, dome to preset, storage time
Adjustable duration	Pre- and post-event recording from 5 seconds to 30 minutes
Calendar	Programmable recording with several motion detection masks for each day of the week in one-hour increments. Separate calendar for holidays.

Image Rate, Resolution and Size

	Image Rate Maximum (ips)		Image Resolution	Average Image Size in WM9 Format
	JPEG	WM9	Pixels	kB
CIF	240	128	352*240	4-6
2CIF	120	64	704*240	6-9
4CIF	60	32	704*480	9-12
Single Camera	30	30	-	-

Security and Authentication

User rights are defined in profiles. They show the components the user has access to in a tree-like structure. Profiles contain devices connected to the recorders, such as cameras, audio devices, digital inputs and outputs, video outputs, external programs and alarms.

All applications and users are authenticated before granting access to the recorder. With users this is done with a unique user name and password combination. Amano V Series includes three levels of user accounts.

System Diagnostics

System Diagnostics is used to follow the state of the system and its components. Diagnostics keeps log of the principal data of the PC as well as of the software process.

System Diagnostics also includes a performance scanner, showing the CPU, memory and network usage for each system component, as well as total hard disk consumption.

Inputs / Outputs

There are several ways to perform online video surveillance. Video can be displayed on a PC monitor in user-defined formats and on analog TV monitors in multiplexed or single image format.

Hardware options allow the user to modify the recorder according to his needs. Internal matrices, quads and I/O cards are available.

Remote Client Software

Standard	Amano V Workstation and Amano V System Manager
Optional	Amano RMC (Remote Management Center)

Data Export

Data can be exported on CD/DVD. Single images can also be printed

File formats .wmv, .jpeg, .gif, .tiff, .png and .bmp

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