(O) SmartSight ®

nDVR Pro™
Professional Video Management and Storage Software

SCALABLE.
DISTRIBUTED.
INTUITIVE.

Product Overview

The nDVR Pro software is the core intelligence of the SmartSight's enterprise-class managed video solutions. It is based on a distributed client-server architecture that enables simultaneous viewing, storage and capture of high quality, high resolution, video, voice and data services.

The nDVR Pro provides virtual matrix functionality found in a traditional analog matrix without the limitations associated with hardware matrices. The nDVR Pro system offers an infinite number of inputs/outputs with no location constrains to the virtual matrix; it can literally manage video feeds from multiple locations from all around the world. This means greater scalability and accessibility than could be offered by a hardware matrix at a much lower cost.

The nDVR Pro software also offers unlimited scalability, supporting thousands of cameras and audio feeds. When combined with the S1000w™/S1100w™ wireless video transmitters or the S1500e™ series of Ethernet video servers (including the S1508e™), the nDVR Pro software provides unprecedented surveillance capabilities to enterprise campus, airport and sea port perimeter security, and citywide locations.

The nDVR Pro offers a unique software solution capable of leveraging the enterprise's server platform by using the same maintenance program for both CCTV and IT equipment thus reduces the long-term cost of the surveillance system; this integration facilitates the update of the system with the latest SmartSight features. Unlike conventional DVR systems, which may quickly become obsolete, Versalis represents a long-term investment solution with its support for software updates at all system architecture levels.

Key Features

- Built on Windows NT and MSQL technology

- Truly distributed IP architecture from end to end, reducing the cost of cabling and maintenance

- Scalable client-server architecture enabling simultaneous live and archive viewing by multiple authorized users

- Storage of 64 cameras on a single server at 30 frames per second each

- Multisite, enterprisewide management and supervision over both LAN/WAN and the Internet, for maximum flexibility

- Capability to support decentralized monitoring of an unlimited number of archiving sites and cameras without geographical constraints

- Virtual Matrix capabilities; infinite number of input/output matrix ports

- Unlimited storage capability using local disks (IDE or SCSI), network attached storage (NAS) devices, or both

- Scheduled backups on mapped drive, NAS, or tape

- End-to-end SSL-based authentication and data encryption enabling high security across the network

- 248-bit RSA digital video signature for unalterable credible evidence

- Enhanced integration capability with third-party security systems and management information systems (MISs) using the nDVR Pro software development kit (SDK)

- Internet Explorer 5.0+ Web-client support

Specifications

nDVR Pro Client
Three user-interface modules that can run on multiple workstations simultaneously

Monitor
Capabilities include:
- Monitor up to 32 live cameras and site maps simultaneously*
- Configure split views and set dwell times between views
- Manually trigger audio and video recording
- Instant Replay capabilities: review an event that has just occurred, while continuing to monitor the live feeds.
- View and control camera sequences within the Monitor
- Use live audio communication
- Define up to 99 presets and patterns for motorized cameras and domes
- Enter motorized camera or dome menu directly without exiting application
- Activate digital zoom mode
- Select internal/external alarms and displayed messages
- View real-time alarms and alarm history (since initial login)
- Connect an external CCTV keyboard to control remote cameras and send video streams to specific external analog monitors

Archive Player
Capabilities include:
- Play back video from any camera by time and date
- Search video sequences based on events, alerts, bookmarks, and motion
- Search video sequences for motion in specific image areas
- Play back up to four video sequences simultaneously (synchronous or asynchronous)
- Create new bookmarks on any sequence
- Play back video to analog monitors (or send to VCR)
- Perform frame-by-frame or fast-mode playback and play forward
- Digitally zoom in to image
- Save selected images to JPEG or bitmap formats
- Save selected sequences to disk along with standalone archive player application
- nDVR video files can be converted to .AVI format

Configurator
Parameters include:
- Archive camera and Virtual Matrix scheduling
- Virtual Matrix capabilities: Camera Sequencing within a single viewing tile, macros for easy integration with 3rd party systems (access control), and direct keyboard support without the use of a PC
- Archive triggering (continuous, motion detection, dry contact alarm, or via SDK)
- Number of days to keep video record per camera
- Pre/post-event storage duration per camera
- Motion detection zones and sensitivity levels per camera
- Live and recorded video parameters per camera
- Backup schedules per camera
- Network (multicast, multicast by server, or UDP protocol per camera)
- Setting of actions based on system events
- Creation of camera sites and grouping of cameras per site
- Creation of multilevel interactive HTML maps per site
- Pan-tilt-zoom (PTZ) protocol per motorized camera or dome
- Dry contact and relay output
- Users, passwords, and user rights

* Must have ATI Radeon 32 MB or Matrox G450/G550 graphics card installed and minimum P4/2.4 GHz computer with 512 MB DRAM

nDVR Pro Server
Management and storage modules installed on one or more computer servers

Configuration parameters:
- Directory Fail Over System (FOS): automatic transfer system control to the next machine in line
- Internet Explorer 5.0+ Web-client support
- Local or remote MSQL database
- Storage devices: local disk, remote disk, network attached storage (NAS)
- Backup: digital tape, NAS, remote disks, etc.
- Video encryption configuration
- Remote access via the Internet
- Location of system log file
- Ethernet port selection
- Enabling/disabling audio recording
- Email accounts for alarm notification

Ordering

Part number	**nDVR-PRO**
Description	Professional Video Management and Storage Software with maps and keyboard functions (includes 10 licenses)
Part number	**nDVR-PRO-2U**
Description	Connections for two (2) additional user/client licenses (nDVR)
Part number	**nDVR-PRO-2C**
Description	Connections for two (2) additional camera/analog monitor licenses (nDVR)

Optional add-ons

Part number	**nDVR-PRO-AUDIO**
Description	nDVR-PRO with audio recording and intercom functionality
Part number	**nDVR-PRO-WP**
Description	nDVR-PRO with internet connectivity and web client software for Internet Explorer 5.0+
Part number	**nDVR-PRO-1P**
Description	nDVR-PRO with connection for one PDA client (Pocket PC only; live viewing only)
Part number	**nDVR-PRO-VM**
Description	nDVR-PRO with virtual matrix with support for camera sequences, macro functions/scripts and keyboard connectivity via S1500e-R
Part number	**nDVR-PRO-AS-4**
Description	nDVR-PRO with remote archive server for 1-4 cameras
Part number	**nDVR-PRO-AS-8**
Description	nDVR-PRO with remote archive server for 5-8 cameras
Part number	**nDVR-PRO-AS-16**
Description	nDVR-PRO with remote archive server for 9-16 cameras
Part number	**nDVR-PRO-AS-64**
Description	nDVR-PRO with remote archive server for 17-64 cameras
Part number	**S8700**
Description	Intel-approved rack-mount computer that includes internal storage capacity of 1.2 TB and an additional 6 TB of external storage (refer to S8700 specification sheet). Preinstalled with nDVR-Pro, one or more nDVR-Pro-4Packs, and Windows 2000 Professional