

SharpView Mobile - CCTV for tough environments: Military, Police, Fire, Ambulance vehicles, Trains, Coaches, Naval vessels



SharpView Premier SVR-16NR

- ▶ World's fastest network video recording engine
- ▶ Records megapixel and HD cameras
- ▶ Records analogue* and IP cameras
- ▶ M-JPEG, MPEG4, H.264, JPEG2000
- ▶ Enterprise class Linux OS
- ▶ Industrial grade Tower server
- ▶ Outstanding thermal properties
- ▶ 8TB storage available
- ▶ Scalable recording of unlimited number of cameras to as many required units from multiple sites

When you need a CCTV security system in the toughest environments, SharpView Mobile is the perfect choice. Delivering the highest performance and reliability with the lowest power consumption in the industry. Ideal for use in Military, Oil and Gas works, Railways, Emergency vehicles; Trains, Fire Engines, Ambulances, Police cars.

SharpView Mobile solution consists of **SVR-16NR** with **SharpView Manager Professional** combining the World's most powerful video recording engine in a ruggedised unit with EyeLynx's video security management software.

SharpView systems are scalable providing solutions for unlimited numbers of cameras, recorders and any security devices (panic alarms, fire sensors, access control... etc) that requires integration with the CCTV.

* Record analogue cameras via IVE (see below)

SharpView Manager Professional



- ▶ Security Management System
- ▶ Unique megapixel digital-PTZ
- ▶ Integrate security systems with plug-ins:
 - Alarms
 - Site-Map
 - Intercoms
 - Action on Event
 - Macros
- ▶ Simultaneous live view, download, export to DVD
- ▶ Cross platform: Linux, Windows, Apple Mac OS X

SharpView Mobile, SVR-16NR is supplied with **16 inputs** enabled and an **80GB automotive class 2.5"** hard disk drives. Larger capacity hard disks are available on request up to **1,000GB**. Storage is also possible to external USB disks.

SharpView Mobile Video Recorders meet the stringent standards for EU rolling stock **EN50121, EN50155, EN61373** specifications. Military grade units complying to **MIL-STD-810** are available on request.

Utilising the latest **Enterprise class Linux** operating system, the recording engine used in SharpView mobile recorders exhibits the fastest storage and retrieval performance in the industry. All units record network (IP) video of standard compression formats including; **M-JPEG, MPEG-2, MPEG-4** and **H.264**.

Record multi-megapixel or HD video from most industry standard IP cameras. These include **Arecont, Axis, Hikvision, IQEye, JVC, Lumenera, Panasonic, Pelco, Samsung, Sanyo, Sony, UDP, Xvision** and any HTTP or RTSP source.

Recorders can be configured using any web browser, including hand held devices connected to the unit. All system parameters can be set or changed over SSL connection and vital system information can be accessed in the same way. Video recording parameters are set up via web-browser; frame rate, resolution, motion detection, storage times and schedules can be set.

Sources can be a mixture of PAL/NTSC, standard definition IP and High Definition, Multi-MegaPixel cameras. Resolution can be set as **CIF, VGA, 4CIF, D1, HD720p, HD1080p** through to **4008 x 2672**. Image rates can be set to 25/30fps PAL/NTSC or any other desired rates that can be output from the cameras.

FEATURES AT A GLANCE

- **16 input rugged network video recorder**
- **Low power fan-less system**
- **Enterprise grade Linux operating system**
- **IP65 protection, extended operating temperature range**
- **Full EU rolling stock standards - EN50121, EN50155, EN61373. MIL-STD-810 available on request**
- **Full frame rate and time lapse recording**
- **Integrated SSL configuration software for remote access**
- **Built in alarms for hardware monitoring and diagnostics**
- **Internal hard disk or optional external USB disk**
- **Pentaplex operation; record, playback, archive, search and stream at the same time**
- **Operating system on solid state memory Disk-On-Module ***
- **Single 9 to 36V DC power supply**
- **Gigabit Ethernet LAN port**
- **WiFi 2.4GHz 802.11b, 802.11g,e as standard**
- **Integrated GPS, GSM / GPRS (UMTS)***
- **7 digital inputs and 5 digital outputs**

(*) Factory fitted option - request on ordering

TECHNICAL SPECIFICATIONS SVR-16NR

Operating System Software	Linux
Inputs	16 inputs enabled, any resolution
Supported Cameras	Arecont, Axis, Hikvision, IQEye, JVC, Lumenera, Panasonic, Pelco, Samsung, Sanyo, Sony, UDP, Xvision, HTTP, RTSP video
Operating System Storage	Internal Hard disk drive or Solid State Disk-On-Module (option)
Storage Capacity	Up to 80GB internal hard disk. (1,000GB non-transport option)
Maximum Recording Rate	25Mbps, 120 fps
Interfaces	1000 Mbps (Gigabit) Ethernet LAN, USB1.1, USB2.0, RS232, VGA, PS/2
Wireless interface	2.4GHz WiFi 802.11b, 802.11g,e optional GSM/GPRS (UMTS) available on request
Operating Temp. Range	-20 to +55 degrees C
Power Supply	Single 9V to 36V DC supply
Power Consumption	12W (typical)
System Monitoring	6 LED indicators for Power ON/OFF, plus 4 programmable
Front Panel Connectors	IP65 circular connectors for DC supply, power switch, serial RS232, parallel port, USB1.1, USB2.0, RJ45, R-SMA antenna
Compliance / Ratings	Climatic: EN 50155 Humidity, Ambient air, storage temperature Mechanical: EN 61373 Shock and Vibrations Electrical: EN 50155 Power Supply regulation, surge, insulation EMC: EN 50121, EN 61000, EN 55011, ECE ONU reg.10 (immunity emission) Safety: EN 60950
Dimensions (D x W x H)	255 mm x 129 mm x 57 mm
Weight	1.5Kg (max)

Intelligent Video Encoders IVE-XX

Intelligent Video Encoders are available as single channel, quad channel module or rack mount version with 4-channel blade cards.

Using **IVE-XX** encoders is the easiest way to migrate an analogue system with existing PAL/NTSC cameras to SharpView digital IP CCTV platform. **IVE-XX** encoders convert the analogue signal to digital M-JPEG, MPEG4 or H.264 compression with D1 resolution and full frame rates 25/30 fps PAL/NTSC on all channels. **IVE-XX** encoders include 4/4 digital I/O and RS-232, RS-485 for every 4-channel module or blade card. PTZ protocols for all major manufacturers is supported. are provided. Refer to datasheets for detailed specifications.

IVE-04; 4 channel encoder



IVE-12; 12 channel rack mountable encoder



IVE-40; 40 channel rack mountable encoder

Video Content Analytics

Video intelligence or 'video content analytics' is carried out by the powerful and intuitive tracking engine built into each IVE-XX. This video analytics software algorithm provides alerts for any scene changes meeting the users pre-defined conditions, providing a highly reliable, high performance capability that results in the lowest false alarm rates and maintains ease of use for operator control.



Abandoned object in car park



Intruder alert at perimeter fence

Video Intelligence - Premium

High Performance	Lowest false alarm rate algorithm
Ease of use	Intuitive configuration and set-up
Detection Zones	Multi-segment polygon and lines
On-Screen display	Real-Time display of tracking / events

Video Intelligence - Professional (optional)

Detection Behaviour	Direction, stopping, loitering, left object, removed object
3D Behaviour	Perspective corrected filters for size and speed
Statistics	Counting functions
Image Stabilisation	Removes camera shake
Tracking	Auto PTZ tracking



SharpView Manager Professional

Feature rich security management software that allows users to manage their CCTV with complete integration of other security devices. Access Control, Fire Alarms, Motion sensors and Intercoms can all be managed alongside CCTV and more importantly linked to each other using the Connections module that allows local on-site customisation via simple macro scripting. Security personnel can be alerted to specific events and have confidence in their system to carry out automated responses to alarms. The user interface is configurable and all feature modules (plug-ins) can be repositioned or undocked for multiple screens.

Unlimited number of users can use SharpView Manager on Windows or Apple Mac OS X.

Video View

Displays cameras with play controls in either 1, 4, 9, 16, 25 or 36-way screen split options. Monitor feature provides extra Video View for up to a total of 72-ways. Save images (snapshot) as jpeg, instant print, digital PTZ with preview window, create virtual cameras, mark incidents with Tags for instant access and review.

Play controls include slow-motion, x2048 fast forward and rewind speeds, pause and an interactive timeline marker bar which represents recorded video. Recordings can also be accessed by simple date and time entry for either a selected camera or all cameras in a multi-way.

Device Manager

Allows users to see all IP cameras, NVRs, DVRs, and workstations on the system either by classic tree view or by location groups. PTZ control for supported cameras is provided by use of the mouse or via USB joystick.

Back-Up Manager

Video clips can be downloaded from the recorder to the local hard disk or to any storage device on the network in the original video format. Downloaded clips can be further exported into .avi or .mov. Previously downloaded clips can be mounted and viewed alongside the live video.

Mapping

Cameras can be represented on an interactive map of the premises. Positions of alarms, access control points, intercoms and motion sensors can be marked out on the map.

The relative PTZ position of each sensor can be preset in the camera or DVR and linked to the device manager so that by simply clicking on a particular part of the map, the associated camera will reposition to that preset coordinate.

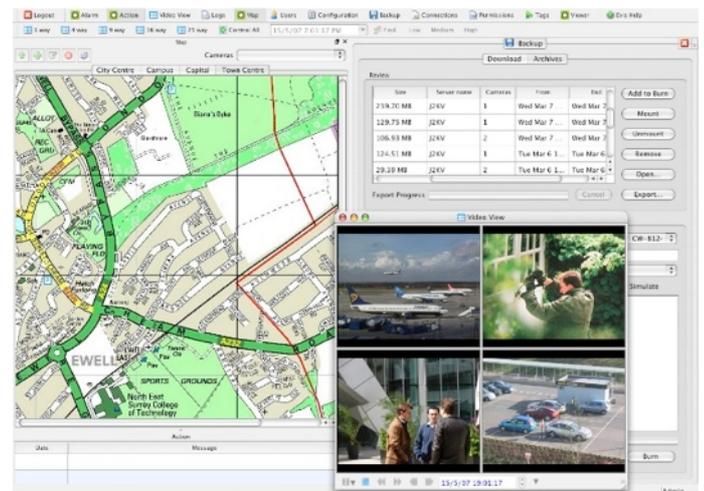
Alarm Manager

Alarm Manager 'listens' and logs events by time, date, reference and allows specific actions to follow after an alarm. Alarms could be video intelligence alerts, motion detection from cameras or PIR motion sensors, fire detectors, door entry systems or even monitors from other electronic devices on the network.

Connections

This module allows the user to create specific responses to triggers received by the system via simple scripting or by use of the wizard. This powerful module enables the user to design the security based on 'action on event' specified criteria.

An action could be to start a macro that sends an e-mail alert, plays a sound file and transmits an image to a security guard's workstation following the triggering of an intruder alarm. All plug-in modules are scriptable within Connections, thereby the user is able to link and control any devices that are connected to the system.



Typical Screen showing Video View, Back-Up, Mapping

Data Logs

This plug-in logs events from any plug-in or device driver in the system so the administrator can export the data for future analysis.

Users Profile

This module defines the users' access rights. The administrator can control which plug-in modules the user can and cannot access.

Permissions

Permissions allows the user to specify at the plug-in level which functions in the plug-in a user profile can execute.

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