www.dowshu.com

# Network DVR Management System

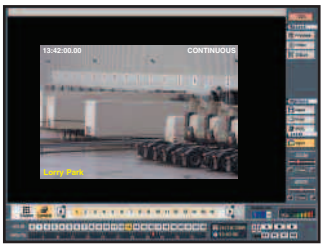
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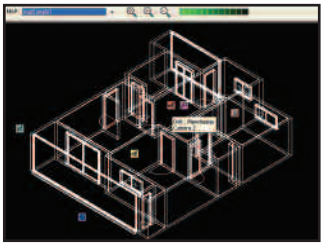
NDMS



NDMS central and remote monitoring solutions







DVR 3000 series, remote menu navigation and a typical site map

The Dowshu Network DVR Management System (NDMS) makes central monitoring and central security management far more comprehensive yet incredibly easy to control.

The NDMS provides users with detailed multi site surveillance data from Dowshu Digital Video Recorders (DVRs), all of which can be accessed remotely and controlled from a PC.

The NDMS is suitable for the most highly complex applications involving multiple sites and multiple cameras. It is, however, equally effective in smaller multi site applications and even where remote viewing and control of only one DVR is required.

The NDMS is extensively used as an efficient tool for verifying alarms at remote sites, replacing or reducing the need for on-site security guards. Built in DVR intelligence, such as from motion detection, ensures no unwanted site activity is missed. The speed with which the visual information is available means an appropriate response can be given. In centralised security applications, an operator response means that in 90% of cases a crime is prevented, proving the need and effectiveness of immediate site interaction and contact. Doors, gates, barriers and lights can all be controlled remotely as part of a complete remote monitoring solution, saving overall security and building management costs.

Established in 1998, Dowshu is already the world's largest supplier of 32 and 64 channel DVR's. Cutting edge products, combined with outstanding customer service, have resulted in Dowshu becoming the leading DVR manufacturer and network specialist to the security industry. At Dowshu, however, excellent products are not enough. We believe in developing close customer relations in order to meet our customers' needs. We offer all our customers a comprehensive service package, from sales and technical support to logistics and our product range is available for next day delivery in the UK and Ireland with bespoke systems and solutions delivered within 6 working days.

**Video verification of remote alarm events**

**Multiple site, multi screen viewing**

**Remote control of Dowshu DVR functionality**

**Evidential video record quality**

**"Health check" remote diagnostics**

**Intuitive graphic menu**

**Two way audio**

**Audio recording**

**Interactive site map**

**Remote telemetry control**

**Remote control of barriers, gates, lights and other safety installations**

**Remote DVR set up optimisation**

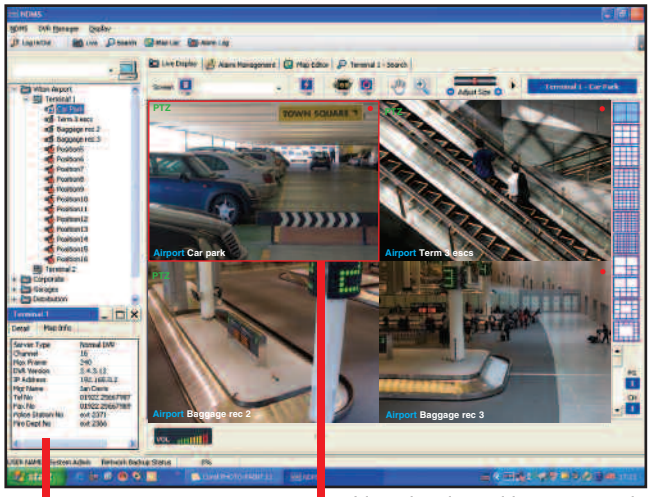
**Critical site information window**

# REMOTE SECURITY INTELLIGENCE

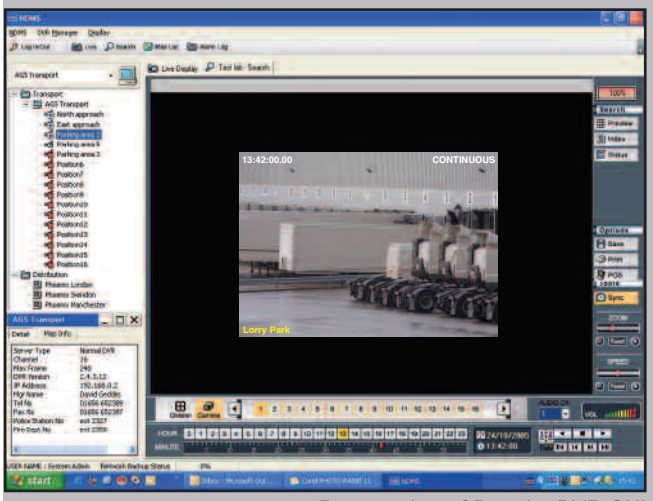
## DIGITAL VIDEO RECORDING AND MANAGEMENT

NDMS allows logical, intuitive PC control and management of multiple Dowshu DVRs located anywhere in the world.

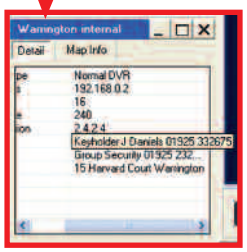
NDMS



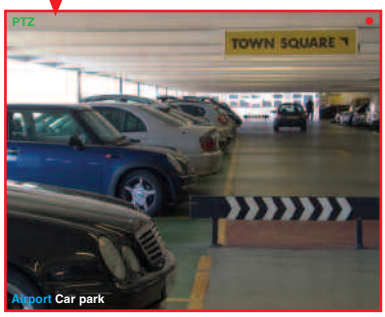

Live view in multi-screen mode




Remote view of Dowshu DVR GUI



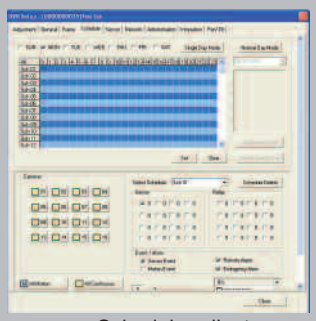

Site information window




Camera view showing PTZ (dome control), recording (red dot) with camera location and name



Screen adjust menu



Schedule adjust menu

Designed for central monitoring and management, NDMS is flexible and simple enough to be used in single site, remote viewing applications. Live view, set up, pan and tilt control, search and back up are all accessible, with video export options for storage on the NDMS PC, local DVR hard drive or any networked PC

## NDMS system set up

This opening menu relates to system set up. Options include:

+ NDMS
+ DVR manager
+ Display

### NDMS

Within the NDMS the menu options are:

+ **Version.** A quick reference to the issue level of the software being used.
+ **Register.** A register of software license information
+ **NDMS options**. All system parameters and privileges are set up using the following submenus:-

***DVR list set up.*** Used to add new DVR access, IP addresses and site information.

***Health check.*** Used to set up email warnings for video loss, recording loss, available disc space and storage failure.

***Alarm management.*** Used to link sensor alarms to camera names, triggering the viewing and recording of relevant footage.

***Administation.*** Used to add operators, set their access parameters and log email contacts needed in the event of an alarm activation or health check alert.

+ **Recording options**. For recording video information from IP cameras connected to hybrid DVR's.

### DVR manager

Each accessible DVR can be set up and managed remotely from NDMS. Parameters include detailed individual camera settings, including motion sensitivity and pre and post alarm setting; frame rates and resolutions; scheduling of system settings for different times of day, weekends and holidays; allocation of sensor dwell time; network port control; audit log parameters; site information and contact details; telemetry settings.

Network back up is also activated from this menu allowing locally recorded incidents to be downloaded and exported across a network to the NDMS PC, or for the remote set up and recording to a local DVR, or from one DVR to another.

### Display

All NDMS menu system structures are available from this menu, described next, including the ability to view health check status and identify the triggers of system alarms.

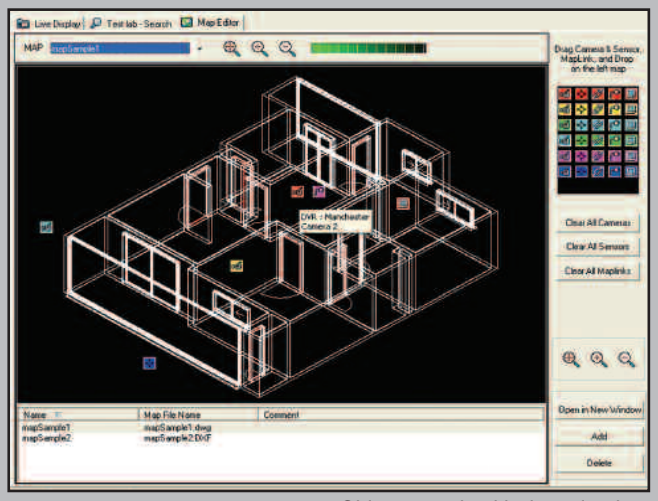
Multiple user names and passwords provide different levels of access for different operators giving greater security.

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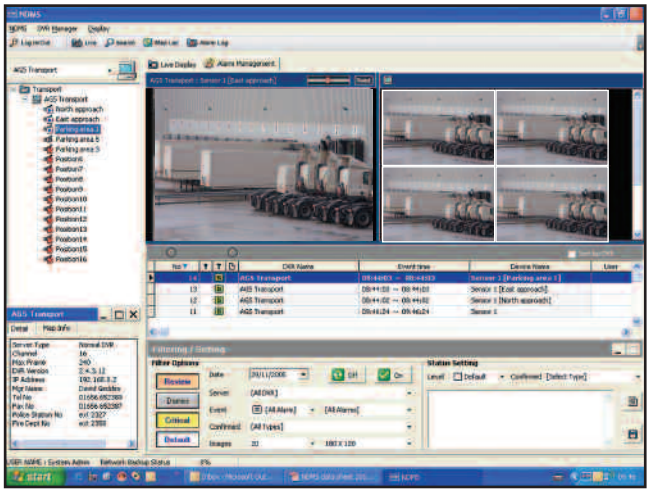
## Minimum system requirements

**Main Board (CPU)**: Pentium 4 recommended, Celeron 500-700 (minimum)
**Operating System**: XP Pro recommended, higher than Windows 98, minimum DirectX 7.0A

**Memory (RAM)**: 512M recommended, minimum 256M
**VGA**: Overlay YV12 Format Graphic Card, all Radeon, NVidia (Higher than Geforce) Matrox (Higher than G400) compatible video cards



Object search with detection box



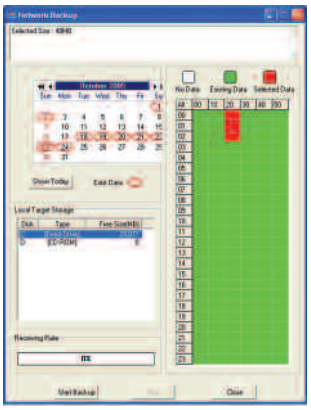
Alarm management

NDMS

## NDMS menu system

The Dowshu NDMS menu divides into 4 categories:
+ Live
+ Search and multiple search
+ Map list
+ Alarm management

These titles are repeated on screen tabs at the camera display view which allow the operator to “drag and drop” each screen independently on the monitor. If a “multi head” graphics card is fitted in the PC these screens can be dragged to any one of up to four separate monitors - a level of functionality which allows for easy management of larger or centrally monitored sites.



Network back up screen




Telemetry control interface

### Live display

The opening display has multi screen display options from a single channel to 64 channels. A DVR group list is displayed to the left. Sites are arranged in a simple file format and when connected, reveal their camera list with a double mouse click. Individual cameras views can then be dragged and dropped where required on the multi screen view. A double mouse click on any camera view will give a full screen image. It is possible to have hundreds of sites with multiple cameras all managed using simple PC commands, making central security very simple. Multi screen views using cameras from many different sites in specific logical or intuitive layouts, can be named and recalled later. One mouse click and their respective site connections are reactivated.
The camera name or description is in the bottom left hand corner of each camera view. A red dot to the right of each view indicates if the camera is recording and if the camera has telemetry, green text indicates pan/tilt/zoom.
NDMS allows both talking and listening to a site. Audio can be recorded and verbal warnings can be by operator microphone or pre recorded instructions – such as building exit directions in emergencies.
An information window is present for each site providing details of equipment type, software issue, number of channels, IP address and monitoring station, site contact or key holder information. Quick access to site maps is also available from this window.

### Search and multiple search

The graphic user interface of the local DVR resides within the “search and multiple search”. All of the available DVR functions are displayed including search options; hard drive capacity; instant store; print; point of sale information.
It is also possible to retrieve, view and download video data to the NDMS PC. Please refer to our DVR data sheets.

### Map list

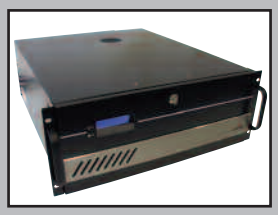
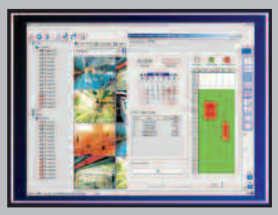
NDMS accepts maps produced as CAD files, JPG, BMP and TIFF. Camera and sensor icons can be positioned on the map and linked to the camera list or name automatically taking the operator to a requested camera. On complex sites this gives easy navigation around the site.

### Alarm management

All alarm activations and their subsequent resolutions are logged, whether locally or centrally. Logged details include an alarm severity rating, duration and device name, response data and alarm outcome. This data allows for detailed retrospective audits if needed.
If alarms are triggered concurrently, such as multiple alarm activations from one site or from a number of different sites, “emergency agent” warns the operator using a messaging system. The operator can then take appropriate action, in the correct priority order, without missing any alarms.

# PRODUCT RANGE

DOWSHU

| | Description | Dowshu data sheets |
|---|---|---|
|  | **DVR**<br>Available in 4, 8, 16, 32 and 64 channels with up to 400 FPS playback and 1600 FPS live view the DVR range delivers up to D1 quality and resolution. Its built in GUI helps optimise site set up and keeps video management simple. | **7000 series Digital Video Recorder**<br>**3000 series Digital Video Recorder**<br>**1000 series Digital Video Recorder** |
|  | **NDMS** (Network DVR Management System)<br>Designed for remote monitoring, NDMS allows fully functional control of over 100 remote DVR's across a network from a single location. | **Network DVR Management System** |
|  | **Hybrid DVR**<br>The Hybrid DVR allows both IP and analogue cameras to be viewed, managed and recorded within the same unit. The Hybrid DVR represents the future of digital video management. | **Hybrid DVR** |
|  | **Flexible Mass Storage Solutions**<br>Custom mass storage devices include:<br>+ JBOD for raw mass storage.<br>+ RAID for mass storage with integrity and redundancy. | **JBOD mass storage solutions**<br>**RAID mass storage solutions** |
|  | **Network Server**<br>The Network Server allows secure surveillance across IP based networks at speeds of up to 120 FPS. | **Network Server** |
|  | **Center**<br>Center software allows remote access to a single DVR from a PC. It comes free with each DVR. | **Center Remote Access Software** |
|  | **I-DVR**<br>I-DVR software allows web browser access for remotely viewing a DVR - simply type in your password and IP address for access. | **I - DVR Remote Web Viewer** |

Please call Dowshu at the addresses below if you require any of the above data sheets.

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