FireVu

Installation and Operation Guide

FireVu
Video Smoke Detection

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Whilst every attempt is made to ensure these manuals are accurate and current, D-Tec reserve the right to alter or modify the specification of the machine described herein without prejudice.

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Introduction

FireVu from D-Tec, the inventors and market leaders in Video Smoke Detection (VSD), is an advanced embedded VSD server.

FireVu overcomes detection challenges such as smoke stratification, varying air flow and contaminated environments. FireVu "sees" the source of smoke and/or flames, identifying them anywhere within its field of view, on any of its 8 camera channels and at any height or direction of flow.

"At source detection" is faster than other forms of detection as there is no need to wait for the smoke to reach the detector. It works by using standard CCTV cameras as sensors, with the video information fed into FireVu, extensive algorithms are used to analyse movement. Should the motion patterns be recognised as smoke and/or flames, the system will alarm. Each FireVu system can simultaneously identify smoke from each of its cameras using up to 16 separate detection zones per camera.

An operator can use a standard PC to view individual or multiple camera images in real time. Early identification via a remote monitor allows the appropriate action to be taken in the shortest possible time. When an event occurs, a live image showing clear boundaries of the alarm area is shown to the operator with the option to view pre-event recorded footage, invaluable in reacting to the incident in the quickest and safest way.

Each FireVu system has 8 camera inputs and multiple units can be connected to the network; creating a highly scaleable Fire Detection system controllable from a single interface.

The camera inputs can be recorded using the renowned MultiMode record feature, enabling an operator to set different recording rates, resolution and compression formats across scheduled, normal and alarm modes when recording for each individual camera.

Incorporating AD Group's 'NetVu Connected' technology architecture providing for seamless connection and communication with AD Group companies CCTV based solutions.

Note: *Please refer to the D-TEC FireVu Dashboard User Guide for guidance on installing and operating the PC based FireVu detection software.*

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Features

The FireVu from D-Tec is equipped with an array of valuable features designed to enhance the operator experience.

- 8 Camera inputs
- Bespoke embedded detection algorithms
- Identifies Smoke and Flame at source
- Visual confirmation of any alarm
- Unaffected by smoke / heat stratification or airflows/dilution
- Allows for smoke detection in hazardous / toxic environments
- Camera recording at QCIF to 4CIF resolution
- MultiMode Recording - Dynamically-switchable resolution, record-rate & compression (MPEG4/JPEG) per camera
- Web pages provide easy remote configuration
- Internal storage
- Up to 16 configurable detection zones per camera
- 22 configurable relay outputs
- 20 Alarm Inputs
- Evidential quality event recording
- Telemetry camera support (Coax & Serial)
- Single and Multiway camera displays
- Live and playback viewing locally and over Ethernet
- Point&go telemetry control
- Embedded NetVu Console functionality
- Easy to use on-screen, colour coded softkey menu options
- Built in DVD-R writer and USB ports for download of video archive to external flash memory and uploading software updates
- Configuration via USB mouse and USB QWERTY keyboard
- Meets BS 5839 part 1 requirements
- EN 50130-4 certification

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The FireVu has NetVu Connected technology built-in to ensure maximum compatibility with future developments in networked security. NetVu Connected technology enables the FireVu to fully interact with other NetVu Connected compatible products including the DV-IP Decoder, NetVu ObserVer and PDA Viewers. Providing interoperability between the worlds leading security companies, NetVu Connected uses industry standard networking protocols supported by a wide range of third party integration products and SDKs to ensure future on-going compatibility.

COMMON CONFIGURATION INTERFACE

A Common Configuration interface is displayed when the unit's configuration screens are accessed locally at the unit or remotely via a web browser. This unified system ensures that the installer is familiar with the configuration screens irrespective of their location to the unit, minimising training and familiarisation time and increasing the speed of installation and alteration.

The FireVu includes a unique colour-coded menu structure and onscreen Graphical User Interface (GUI). Context sensitive, the menu structure always represents the area of the menu the user is in, allowing them to quickly select the options and settings they need without having to trawl through menu pages and options.

MAPS

Users can now navigate around their CCTV installation using graphical maps. Selecting the relevant camera from the map will instantly connect the user to that cameras image stream. With the ability to load bespoke map images and floor plans to reflect their installations, the Maps feature is ideal for quickly identifying camera locations around a site or CCTV network.

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Design of the manual

For ease of use, this manual has three parts:

1. Installation — Shows details of how to install the unit and connect external devices.
2. Configuration — Shows details of the unit's menus.
3. Operation — Shows quick reference details on how to control the unit.

The order and layout of these pages has been designed to help the setup process. It is recommended that the menus are edited in sequential order to enable accurate, easy and efficient setup.

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Important Safeguards

Read Instructions
All the safety and operating instructions should be read before the unit is operated.

Power Sources
This unit should be operated only from the type of power source indicated on the manufacturer's label.

Servicing
Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
Refer all servicing to qualified service personnel.

Ventilation
Ensure unit is properly ventilated to protect from overheating.
All the safety and operating instructions should be read before the unit is operated.

To prevent fire or shock hazard, do not expose this equipment to rain or moisture. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of this equipment that there are dangerous voltages within the enclosure which may be of sufficient magnitude to constitute a risk of electric shock.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Lightning Strike
The unit has some in-built protection for lightning strike, however it is recommended that isolation transformers be fitted to the system in areas where lightning is a common occurrence.

Regulatory Notes and FCC and DOC Information
(USA and Canadian Models Only)

Warning: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

If necessary, the user should consult the dealer or an experienced radio/television technician for corrective action. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the US Government Printing Office, Washington, DC20402, Stock No. 004-000-00345-4.

This reminder is provided to call the CCTV system installer's attention to Art. 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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CE Mark

If this product is marked with the CE symbol it indicates compliance with all applicable directives.

Directive 89/336/EEC.

A 'Declaration of Conformity' is held at D-Tec Ltd.,

1200 Daresbury Park, Daresbury, Cheshire, WA4 4HS, UK.

Laser

The unit supports an integrated CD/DVD writer, the following are additional warnings associated with installing and operating the CD/DVD writer, please pay particular attention to this information.

- Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- To prevent exposure to laser emanations (harmful to the eyes), do not attempt to disassemble this unit.

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Installing the Unit

Before you start

Check the contents of the box

Remove all items from the packaging and check the items listed below are present:

- FireVu unit
- Power Leads
- Rack mounting brackets
- FireVu Software disc
- FireVu Installation & Operation Guide

If any of these items are missing, please contact D-Tec Technical Support team.

Note: *Before installing the FireVu, carefully read all Safety Instructions and the following information on where the unit should be located.*

Available Accessories

The following accessories can also used in conjunction with the FireVu:

- Managed Storage Unit - Extend storage capacity
- Managed Continuous Archiving - Mirrored RAID1 storage unit
- Configurable 8 disk RAID system (default is RAID5)

For further information about any of the above products, please contact D-Tec customer services in your region.

Choosing a location for installation

- The FireVu is designed to be desk, shelf or rack mounted.
- Ensure the FireVu is properly ventilated to protect from overheating.
- Ensure there is a 3cm gap on both sides of the unit.
- Ensure the unit is not located anywhere it could be subject to mechanical shocks.
- The unit should be located in an area with low humidity and a minimum of dust. Avoid places like damp basements or loft spaces.
- If the unit is to be installed in a closed assembly, the maximum operating temperature must not exceed 40°C (104°F).
- Ensure there is reliable earthing of the mains outlet when fitted to supply connections (other than direct connection to the branch circuit).
- Any branch circuit supplying the unit must be rated at 15Amps.
- It is recommended that an uninterrupted power source be connected to the unit in case of power failure (to ensure continuous operation of the unit).

Please ensure the following are available and have been tested prior to the installation:

- Mains point
- Network point
- Network cable
- Active video signals i.e. at least one working camera feed
- PC with CD ROM drive and connection to the same network as the FireVu unit (Recommended)

Quick Overview of FireVu Record Settings

The FireVu provides as default:

High performance recording on ALL cameras with minimal configuration.

Consistent recording duration and smooth motion video per camera regardless of the number of cameras.

Default record settings are MPEG4 25pps, JPEG 4pps or MultiMode recording.

MultiMode Recording

The unit supports MultiMode recording which is a storage technology. This offers the ability to set different recording rates, resolutions and compression formats across scheduled, normal and alarm modes for each individual camera.

By varying the quality, bit rate and file size of the recorded images, the MultiMode function can increase recording capabilities of the unit.

MultiMode offers:

Ability to set different recording resolutions.

Ability to set and switch MPEG4 or JPEG compression recording as required.

Ability to set PPS recording rate per camera.

Dynamically switchable resolution when switching from Normal to Event recording.

Dynamically switchable compression between MPEG4 and JPEG from Normal to Event recording.

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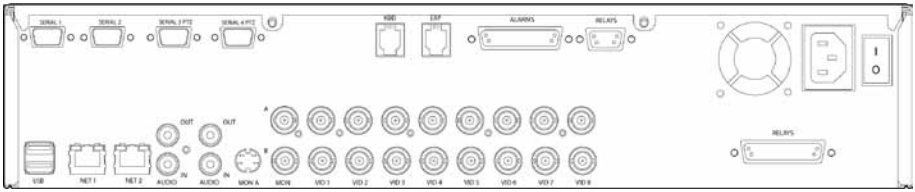
Installation

Front Panel connections

Data

DVD-R	Internal CD/DVD-R drive (located under hinged flap)
USB	USB2.0 connector (located under hinged flap)
LED's	**Power** -The Power LED will be green to indicate power is connected to the unit
	Alarm- The Alarm LED will be red to indicate a connected alarm is in the alarm state
	Fault - The Fault LED will be red to indicate a fault has been detected on a connected input

Rear Panel connections



Video

VID1 to VID8	75Ω BNC composite video input, 1V pk-pk with loop through
MON A	75Ω BNC composite monitor output, 1V pk-pk
MON B	Spot Monitor output
MON A	S Video Connection

Audio

Audio IN (Dual)	Inactive
Audio OUT (Dual)	Inactive

Data

SERIAL 1	RS-232 (3 wire & 9 wire)
SERIAL 2	RS-232 (3 wire & 9 wire)
SERIAL 3 (PTZ)	RS-485 (2 wire) or RS232 (5 wire)
SERIAL 4 (PTZ)	RS-485 (2 wire) or RS232 (5 wire)
USB	2x USB2.0 connectors
NET1	RJ45 Ethernet network connector, 10/100 Mb/s Ethernet Network
NET2	RJ45 Ethernet network connector, 1 Gb/s Ethernet Network
KBD	RJ12 Keyboard port for future us
EXP	RJ12 expansion port for future use

Power

POWER	IEC mains power socket & switch

Alarms and relays

ALARMS IN	Via 25-way (female) D Type 24V 200mA 20 general alarm inputs
RELAYS x2	i. Via 9-way (female) D Type rated at 24V 200mA 4 onboard light duty relay output (500mA@ 12V-48V Max) ii. Via 37-way (female) D Type rated at 24V 200mA 18 smoke detection onboard light duty relay output (500mA@12V-48V Max)

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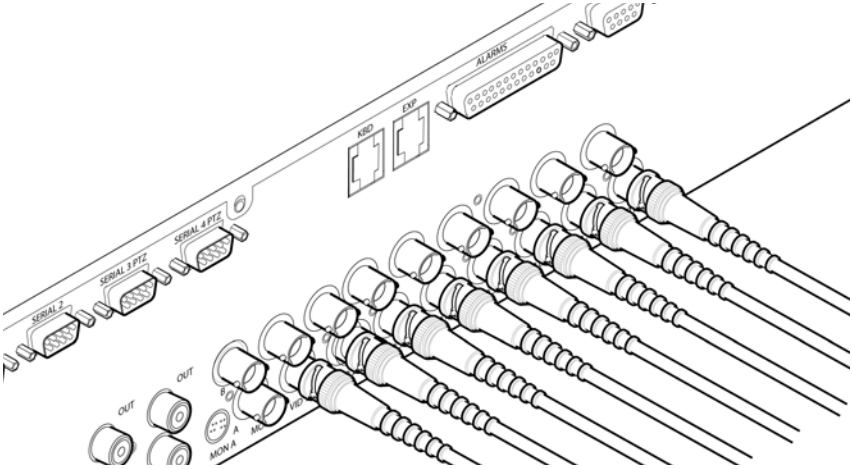
Installing the FireVu

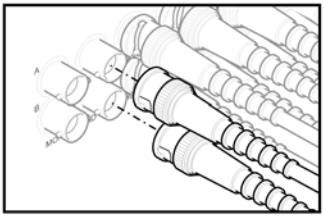
Step 1 Connecting Video



The FireVu supports up to 8 connected Video Inputs via the 75Ω BNC connectors. Connect cameras to the video inputs, starting from input 1.

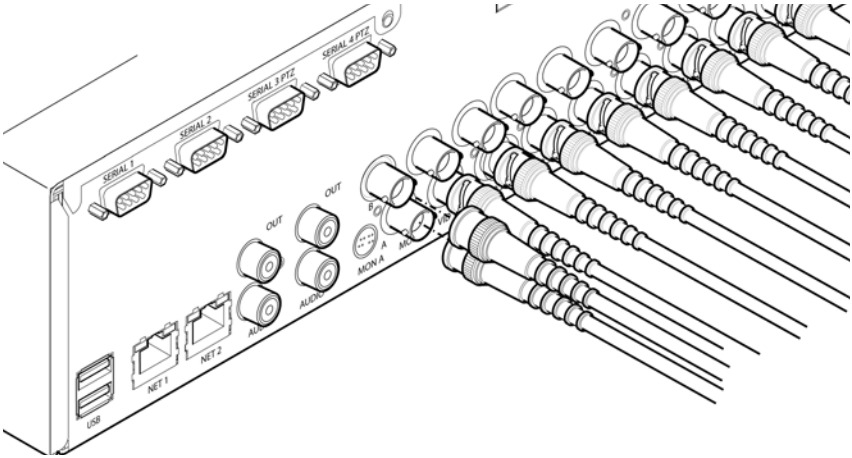
Two rows of connectors provide video input and loop-through support. It is possible to use either the top or bottom row of connectors; For consistency and quality of installation, it is recommend one row is used for video inputs and the other for all required loop-through connections onto other pieces of equipment e.g. monitors and matrices.

Note: *Remember the last piece of equipment in line must be terminated.*



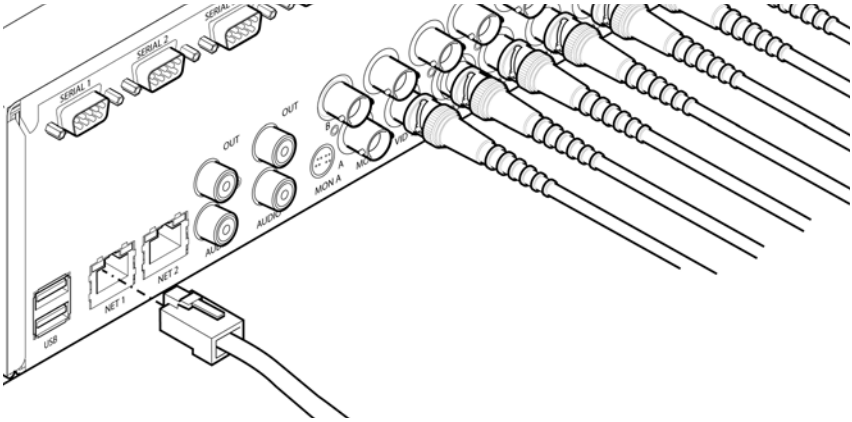
Double termination (not removing termination from the unit) will result in the 1V peak to peak video signal being crushed. This can reduce the colour rendition of the video source and may cause the video signal not to be detected by the last piece of equipment i.e. the signal is no longer 1V peak-to-peak.

Step 2 Monitor



The FireVu supports a main monitor via 'BNC 'A'. A spot monitor can be connected via BNC 'B'.

Step 3 Connecting to the Network



The FireVu has both 10/100/1000Mbps (labelled NET 1) and 10/100Mbps (labelled NET 2) auto-detecting network ports.

The Network port labelled 'NET 1' should be used for 1Gb Network Connections. If utilising this port, network configuration should be undertaken via the Configuration Menu pages:Network Settings->GbNetwork.
For other Network connections, utilise Network port labelled 'NET 2'. If using this port, network configuration should be undertaken via the Configuration Menu pages:Network Settings->Networ*k.*

It is strongly recommended that:

- NET 1 (1Gb ethernet port) be used for all Server IP video sources.
- NET 2 (10/100 ethernet port) be assigned to the Client Network for Viewing and Control.

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IMPORTANT: *If utilising both Network ports, different IP addresses must be assigned to both connections. These IP addresses must not be in the same subnet.*

It is possible to utilise only one network port; however this will limit the performance of the unit and should be avoided if possible.

Note: *The unit will not act as a router between the subnets on NET 1 and NET 2. A 3rd party router would need to be configured for this purpose*

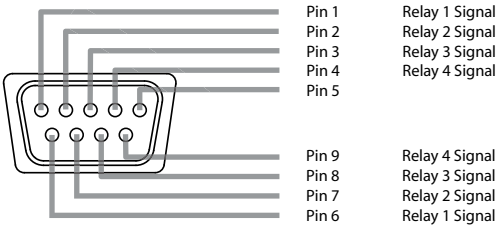
Use a CAT5 cable to connect the unit to the network.

By default the unit is configured for DHCP i.e. the unit is automatically allocated an IP address from a network DHCP server.
DHCP works by assigning an IP address at initial connection to the network. It is possible however that this IP address can change without notification i.e. following power failure. It is therefore recommended that the FireVu be allocated a fixed IP address. A fixed IP address can be assigned via the Configuration Menu pages:Network Settings->Network->IP Address or Network Settings->GbNetwork->IP Address.
Use the 'GbNetwork' menu for 1Gb Network connections (using network port 'NET1') and the 'Network' menu for other network connections (using network port 'NET2').

When the unit is powered up, the network address can be found by viewing on a local monitor and navigating to Configuration Menu pages:System Settings->System->IP Address.

Refer to 'Configuring The Unit' for further guidance on locating the unit's IP address and for details of the default DNS (Domain Name Server) address.

Step 4 Global Relays

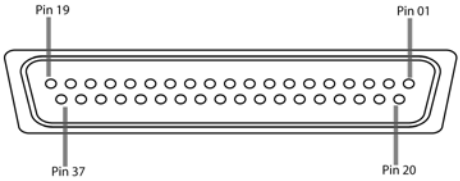


The FireVu supports up to four Global 24V 200mA relays.

Relay Connector

Pins	Connection
1 / 6	Relay 1 signal
2 / 7	Relay 2 signal
3 / 8	Relay 3 signal
4 / 9	Relay 4 signal

Step 5 Smoke Detection Relays



The FireVu supports up to 18 24V 200mA smoke detection relays.

Relay Connector

Pins	Connection
1 / 20	Relay 5 signal
2 / 21	Relay 6 signal
3 / 22	Relay 7 signal
4 / 23	Relay 8 signal
5 / 24	Relay 9 signal
6 / 25	Relay 10 signal
7 / 26	Relay 11 signal
8 / 27	Relay 12 signal
9 / 28	Relay 13 signal
10 / 29	Relay 14 signal
11 / 30	Relay 15 signal
12 / 31	Relay 16 signal
13 / 32	Relay 17 signal
14 / 33	Relay 18 signal
15 / 34	Relay 19 signal
16 / 35	Relay 20 signal
17 / 36	Relay 21 signal
18 / 37	Relay 22 signal

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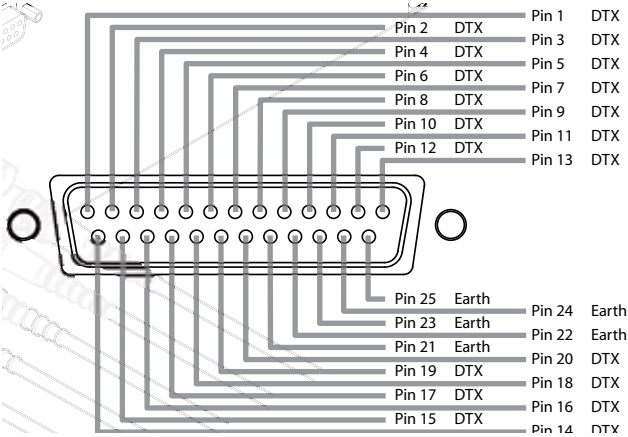
Step 6 Alarms



The FireVu supports 20 normally alarm inputs, or (one Global keyswitch) activated by shorting the relevant pin connection.

Relay Connector

Pin	Alarm Input Connection
1 - 20	1-20
21-25	Earth Common

Step 7 Connecting Serial Ports
Serial ports have two main uses:

1. Connecting twisted pair telemetry for PTZ cameras.
2. Providing text data recorded with the video e.g. Point of Sale.

Note: *Telemetry cameras should be connected to Serial 3 and 4. Text data can be retrieved from any serial port.*

RS232

RS-232	Serial 1 & 2 Pin Allocation	Serial 3 & 4 Pin Allocation
Data Carrier Detect (DCD)	1	-
Receive Data (RX)	2	2
Transmit Data (TX)	3	3
Data Terminal Ready (DTR)	4	-
Ground (GND)	5	5
Data Set Ready (DSR)	6	-
Ready To Send (RTS)	7	7
Clear To Send (CTS)	8	8
Ring Indicate (RI)	9	-

RS485

RS-485	Serial 3 & 4 Pin Allocation
Transmit Data (TX+)	1
Transmit Data (TX-)	9
Ground (GND)	5

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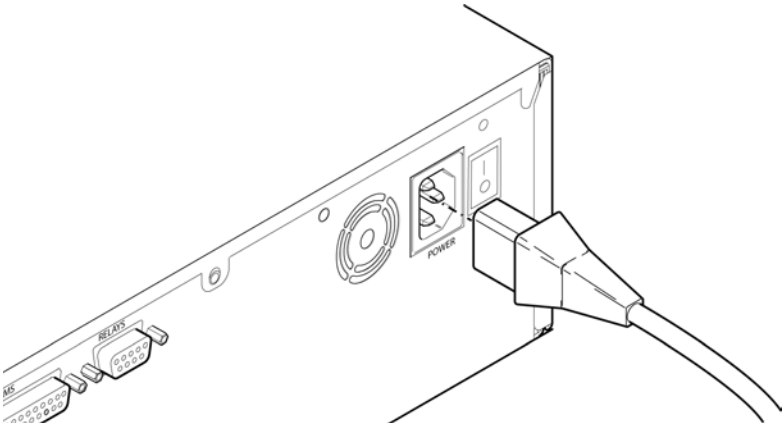
Step 8 Connecting Power



The FireVu has an internal power supply unit. Connect the mains lead to the unit and then to the wall socket, or to a fused spur connection. Check local regulations before installation. Some countries require an Alarm/Security device be connected to a fused spur and not a wall outlet socket.

Configuring the Unit

The unit can be configured either on the local monitor or over the network using a PC with Internet Explorer or similar browser. Both have near identical menu interfaces.

Accessing the menus on a local monitor

1. The Configuration pages can be displayed on a local monitor (connected to BNC Connector Mon A on the rear of the unit).

Accessing the menus on a PC web browser

Locating the Unit IP address

The IP address of the unit is required to access the webpages. It can be identified from the configuration menu pages using the local monitor. Navigate to the System Settings->System menu to find the DHCP assigned IP address.

Note: *The unit can be installed in a DHCP network environment where an IP address, subnet mask and default gateway will automatically be allocated from the network DHCP Server (DHCP is enabled by default).*

Note: *If a DNS (Domain Name Server) address is not to be used, it is strongly advised that a fixed IP address be assigned (a DHCP assigned address can change without notification i.e. following power failure).*
If using the 1Gb network capability (network connection via Network port 'Net 1') a fixed IP address can be assigned via the Network Settings->1Gb Network menu.
If connected via Network port 'Net 2', a fixed IP address can be assigned via the Network Settings->Network menu.

Default DNS Address

It is recommended that a DNS (Domain Name Server) address be configured. Assigning a recognisable name can help a remote user to locate the unit.

If no System name is allocated to the FireVu, the default DNS address will be:

machine serial number.yourdomain.com

- <machine serial number> is displayed in the System menu page and also on the underside of the unit.
- <yourdomain> is the name assigned to your DNS network.

The default DNS address can be renamed via the Network Settings->Network menu. Following renaming, the DNS address will be:

yourname.yourdomain.com

- ' yourname' is the name assigned via the Network menu.

Note: *To activate an assigned DNS address, it will be necessary to reboot the unit. The FireVu can be rebooted via System Settings:Maintain-> Reset.*

IMPORTANT: *To set the time and date on the unit, navigate to System Settings->Time and Date.*

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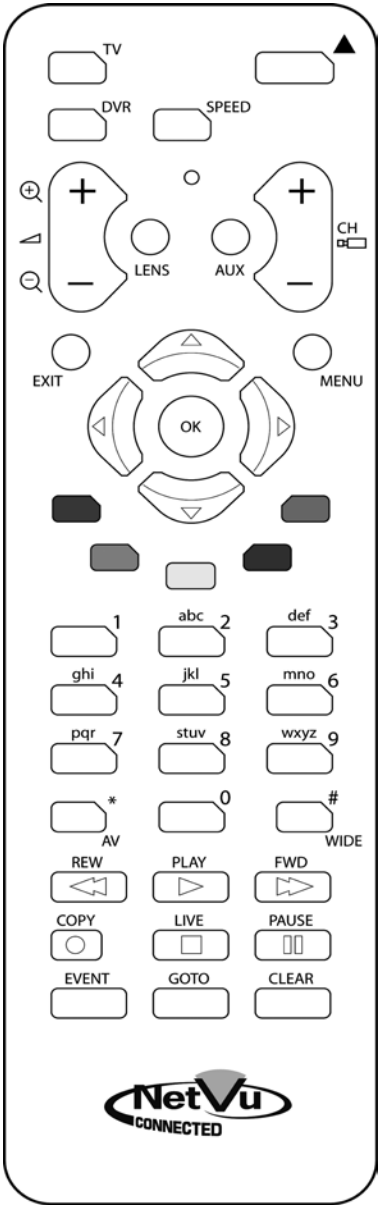
Accessing the Configuration Webpages

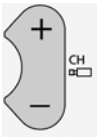
The unit can be configured using the webpages. To access these:

1. Launch Internet Explorer (or similar web browser package).
2. Type the URL for the unit (IP or DNS address).
3. The Opening menu page will be displayed.

On-Screen Remote Control

The on-screen interactive Remote Control offers all the control functionality required to navigate the menus.



Key	Button
	Switches the Remote Control to 'TV' mode and sends codes understood by common TV sets.
	Switches the Remote Control to 'DVR' mode. Note the DVR mode is the default mode of operation.
	Toggle the speed of PTZ camera movement (two speeds available).
	Use the Zoom button to zoom in/out with a selected camera. Also used to zoom (x2) into Live or Playback images.
	This button will change the Zoom Keys operation to focus or iris functions (when available).
	Use this button to cycle through available cameras.
	This button should be pressed (followed by a numeric entry) to carry out auxiliary actions on a PTZ camera.
	Press the Menu button to enter the Configuration menus.
	Press the Exit button to exit the Configuration menus.

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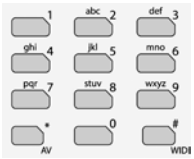
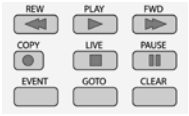
Use the Directional and OK buttons to navigate through the menu screens and accept changes.

Use the Softkeys (Red, Green, Yellow, Purple) to directly access the corresponding function displayed on the menu screen.



The Number pad should be used to select specific cameras and preset positions when available.



Use the Playback buttons to interrogate recorded images. Use the LIVE button to switch from Playback or menus to a LIVE display.

Using the Webpages

Navigate the menus by clicking the tabs displayed on the left of the menu headings (on the menu tree). The first option is highlighted with a red tab. Select a main menu heading to open a drop down list of further sub-options.

Highlight an editable field by clicking on it directly.

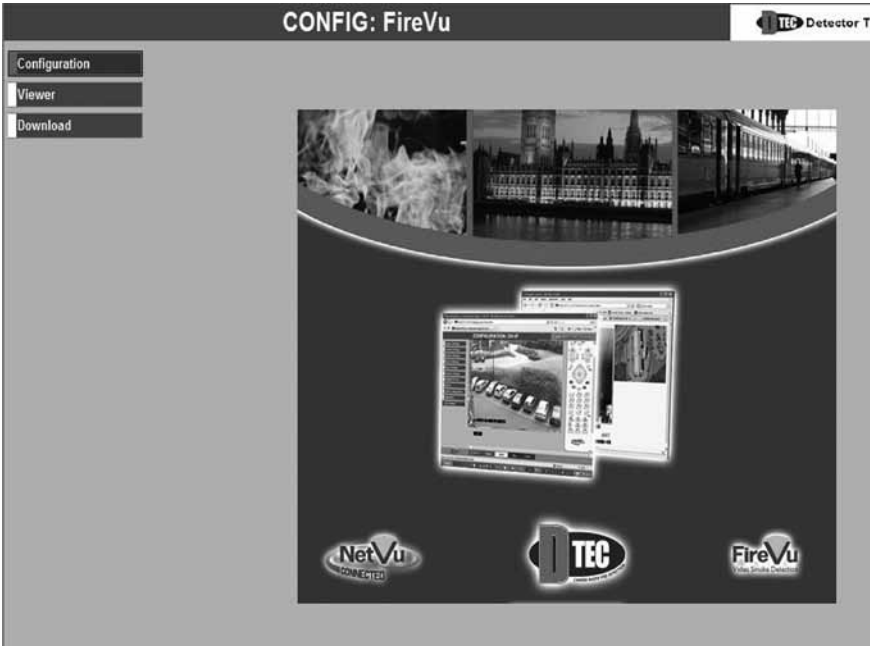
Note: *A selected item in the drop down list will appear highlighted.*

Navigating away from a page (clicking on a different option on the menu tree) will automatically save any changed settings. To undo changes made to any menu, select the Refresh (Purple) option.

Main Menu

When first accessing the unit, the main menu will be displayed. This menu allows access to the Configuration menus, the Viewer menus and also several Download options.

Note: *The Download options will only be available if viewing remotely via an IP connection.*



Select the Configuration menu tab to access the unit's Configuration menus. Refer to 'Navigating the Configuration Menus' for further guidance.

Select the Viewer menu tab to access the unit's Viewer function. Refer to 'Unit Operation' for information on the numerous Viewer features.

Select the Download menu tab to access the various Download sub-options. Select from:

- Product Manual — Select to open an electronic version of the FireVu Installation & Operation Guide.
- ObserVer Manual — Select to open an electronic version of the NetVu ObserVer User Guide. NetVu ObserVer is a video management software package that allows users to seamlessly view distributed images from any 'NetVu Connected' product.
- NetVu ObserVer — Select to download the NetVu ObserVer video management software.
- Java (JRE) — Select to download the Java (JRE) software (from the unit). This software is required to successfully view Configuration and Viewer menus remotely.

IMPORTANT: *By default, no Usernames and Passwords are required to access any of the various menus. Usernames and Passwords can however be added to regulate access to the Configuration and Viewer menus. Refer to the 'Console Settings-> User Accounts' menu for information on establishing Usernames and Passwords.*

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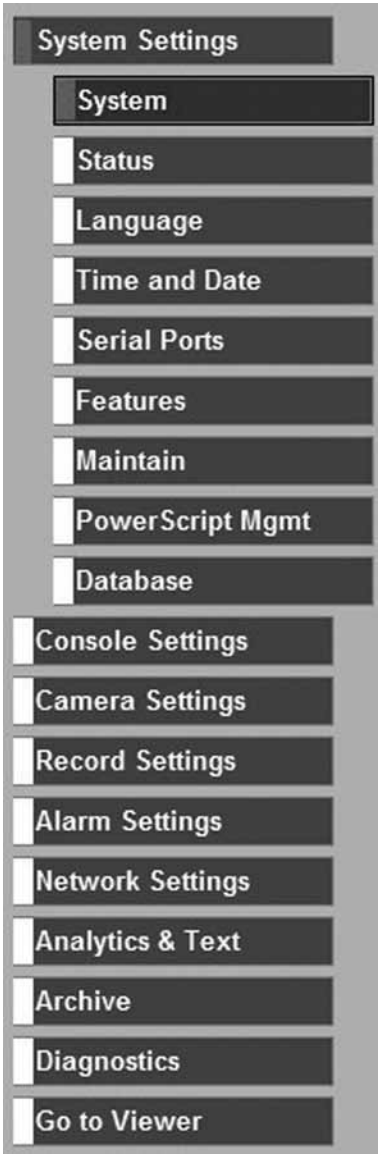
Navigating The Configuration Menus

When accessing the configuration menus, the menu tree will be displayed.



The configuration pages are navigated using the menu tree (displayed on the left of each page). Selecting one of the menu options will display the relevant page. Associated sub-menus will then be available.

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System Settings

The menus under the System Settings heading allow the unit's core settings to be viewed, changed and the system software upgraded.

The System option displays details about the unit including the IP address, unit serial number, MAC address and software version.

The Unit Status page displays information about the unit's operating condition, shows how long the unit has been operating and the reason for the last reset. It also shows camera status and displays any failed cameras.

The Alarm Status page shows which contacts are open, which zones are in alarm and which relays are operating.

The Language page allows the system language to be set. The language can also be changed for the current session only.

The Time and Date page allows the unit time and date settings to be adjusted, including setting the timezone.

The Serial Ports page allows each of the four serial ports to be individually configured for one of a range of operations, including EPOS, debug, PPP and telemetry.

The Features page allows control of the different features that are available within the software including Email reporting, webcam support and control of the display resolution.

The Maintain page allows the current configuration to be saved, and for previously saved settings to be loaded. It also enables easy upgrade of the system software.

The PowerScript Mgmt page allows installed PowerScripts to be activated/deactivated on start-up.

This Database page allows the Event database to be cleared and reset. The last reset time and current number of entries are also displayed.

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System

This menu shows the general information about the unit including the version of software installed, the unit's serial number and the allocated DHCP IP address.

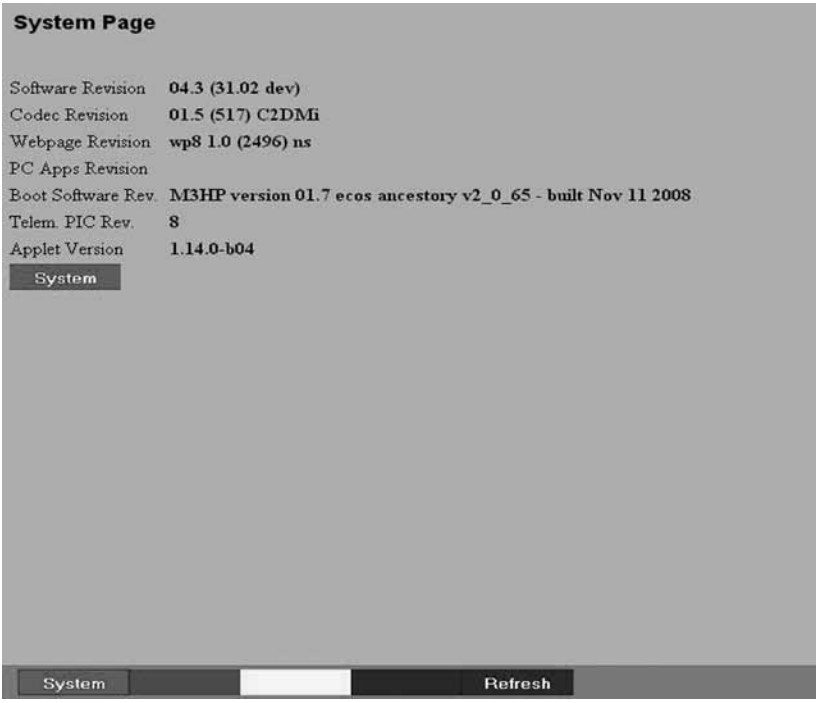
Product Descriptor	Details the product model.
Serial Number	Identifies the serial number of the specific unit.
PCB Serial Number	Displays the PCB (Printed Circuit Board) serial number of the unit.
Product Code	Displays a code identifying the unit's specification.
Earliest Recording	Displays the date/time of the earliest recording held on the unit.
System Name	This field can be edited to allocate a name to the unit. This is displayed when the unit is accessed via NetVu ObserVer and is sent when transmitting information to a Remote Video Response Centres (RVRC).
Number of Cameras	Shows the number of camera channels on the unit.
Global PPS	Details the Global PPS (Pictures Per Second) recording rate for all cameras.
Video Storage Gbytes	Highlights the available video storage capacity in Gigabytes.
Video Standard	Displays the video standard adopted by the unit i.e. PAL, NTSC.
MAC Address	This is the MAC address assigned to the unit.
IP Address	This is the IP address allocated to the unit.

Sub Net	This is the subnet of the network where the unit is located.
Gateway	This is the IP address of the default gateway (router) assigned by the DHCP server.

Note: *The above address information is split into two columns. Each column relates to either the 10/100 BaseT connection (via ethernet port 'Net2') and the 1 Gigabit connection (via ethernet port 'Net1').*

Software (Red)	Select this option to display installed software information (see below).

Software Menu



Software Revision	This identifies the version of software the unit is running.
Codec Revision	This identifies the codec version the unit is running.
Webpage Revision	This identifies the webpage version the unit is running.
PC Apps Revision	This identifies the revision archive of the Viewer amd associated PC Apps software.
Boot Software Rev.	Displays the infrastructure componentry software revision.
Telem PIC Rev.	This identifies the version of the Telemetry control device installed on the unit.

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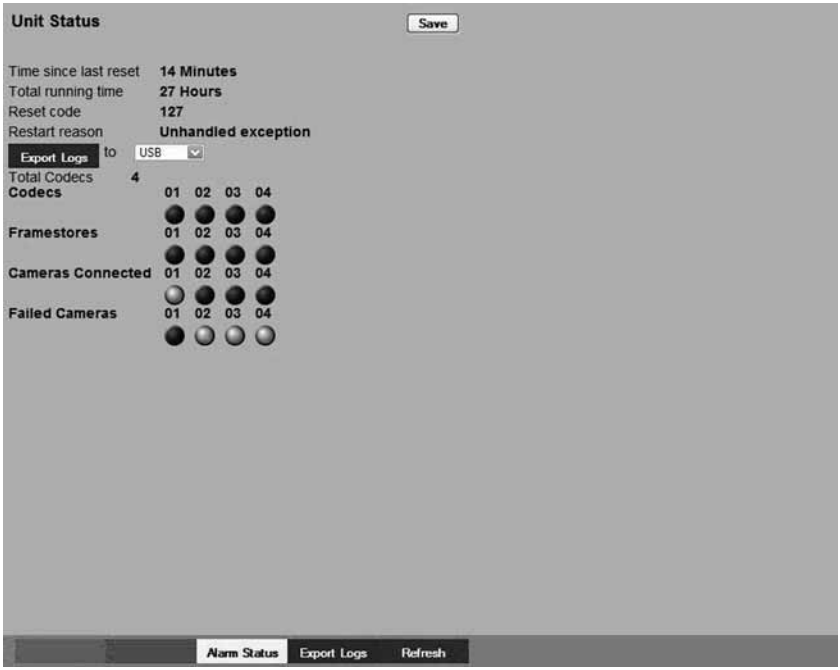
Unit Status

This menu details information regarding the status of the unit, notably the total time the unit has been operating and the time since its last reset. Status log information can also be exported via the 'Export Log' option to either a CD/DVD or a USB device.



Time since last reset	Details the time since the unit was last reset.
Total running time	Details the total time the unit has been operational.
Reset code	The last reset code used is displayed.
Restart reason	The reason for the last restart is displayed i.e. Controlled User Reset.
Export Log (Blue)	Select this option to export log data to an inserted CD/DVD or a connected USB device.
Total Codecs	Details the current number of installed codecs.
Codecs	Installed codecs currently operating as a codec will be highlighted light green. Hover the cursor over individual buttons to display either 'On' or 'Off'. 'On' signifies that the codec is active as a codec.
Framestores	Installed codecs currently operating as a framestore will be highlighted light green. Hover the cursor over individual buttons to display either 'On' or 'Off'. 'On' signifies that the codec is active as a framestore.

Note: *The 'On'/'Off' text will only be displayed if viewing the Unit Status menu remotely over an IP connection.*

Cameras Connected	Those camera channels with cameras connected will be highlighted light green. Those not in use will appear dark green.
Failed Cameras	Those camera channels where the connection is deemed to have failed will be highlighted light green. Those working correctly will appear dark green.

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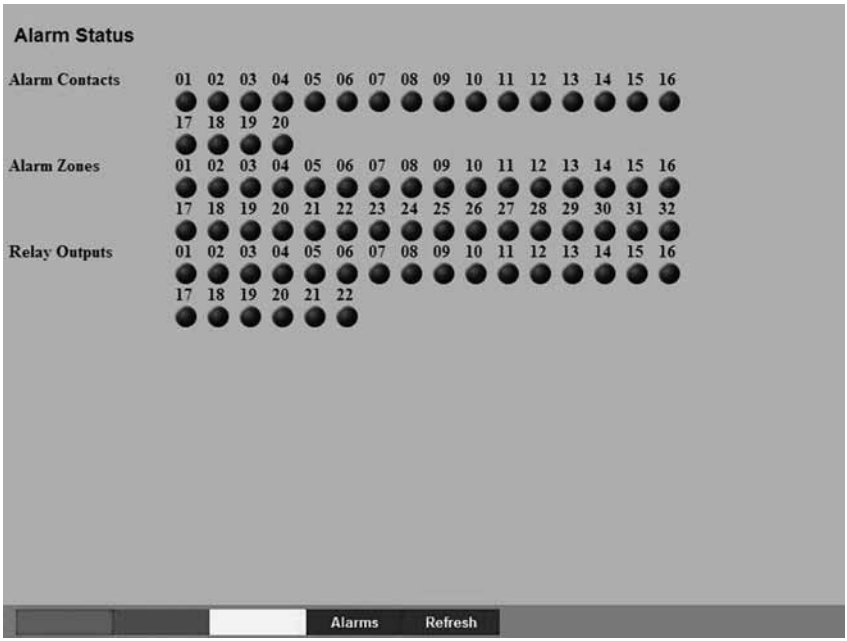
Alarm Status

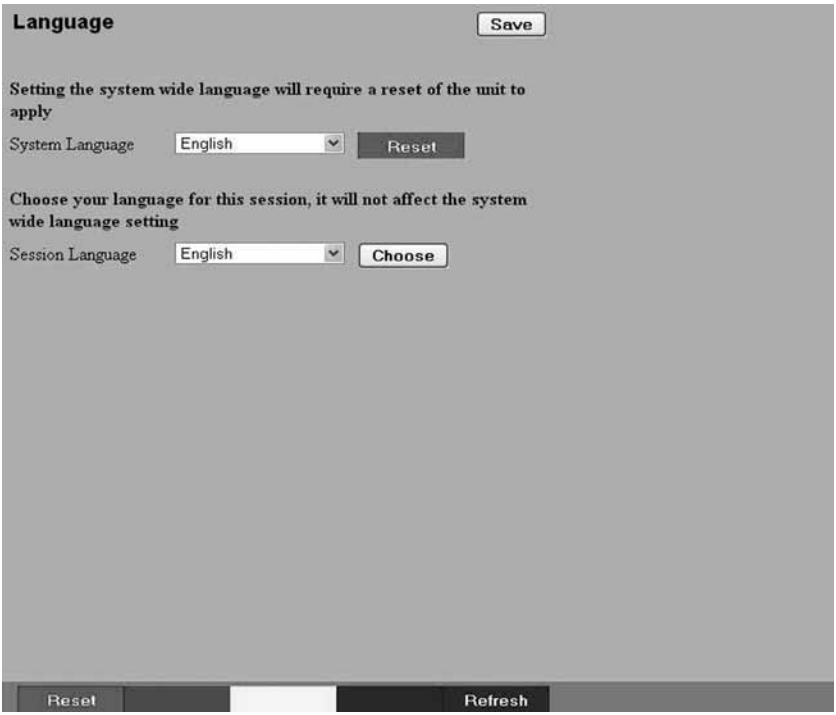
This menu details information regarding the status of the unit's alarm contacts, alarm zones and relay outputs.



Alarm Contacts/Zones/Relay Outputs	Alarm Contacts, Alarm Zones and Relay Outputs that are in an 'active' state are shown light green. 'In-active' ones appear dark green (not illuminated).

Language

This menu allows the system language to be set. Changing the System Language will effect all menu pages. If required, the language can also be changed for the current session only.



System Language	Select to change the system language setting.
Reset (Red)	Select to reset the unit.

Note: *The unit MUST be reset to implement system language changes.*

Session Language	Select to change the language settings for the current session only.
Choose	Select to immediately activate session language changes.

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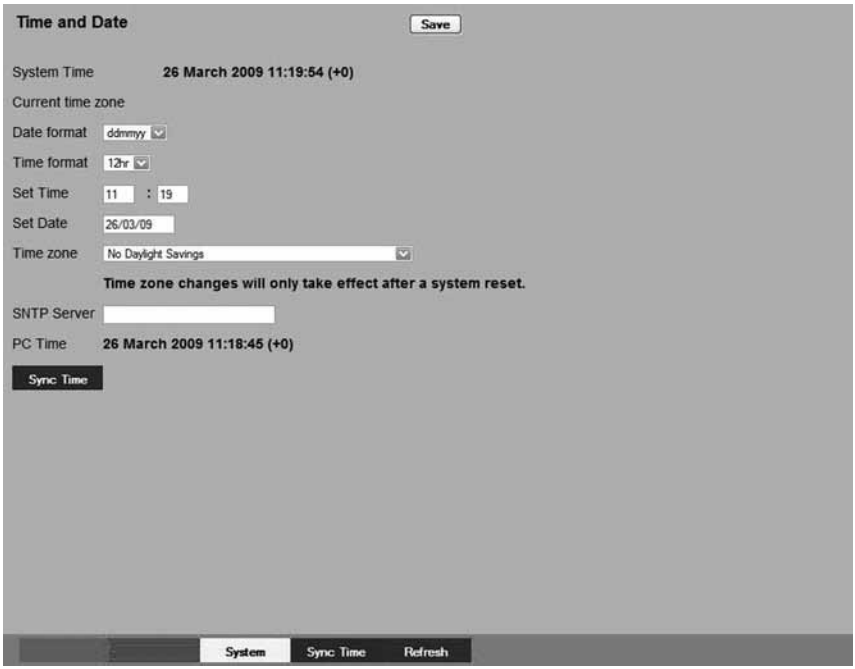
Time and Date

This menu allows the time and date to be set on the unit. Required timezone information can also be established and the unit time synchronised to that of the PC being used to view the webpages.



System Time	The current system time and date is displayed.
Current Time Zone	Displays the currently selected time zone settings.
Time Format	As default, the time displayed is in 12 hour format. This can be changed to 24 hour if required.
Date Format	As default, the date is entered dd/mm/yy. It can also be displayed as mm/dd/yy or yy/mm/dd.
Set Time	Enter a current time for the unit.
Set Date	Enter a current date for the unit.
Set Time (Green)	When current time/date as been entered, select this button to implement changes.
Time Zone	Select the relevant timezone offset from the accompanying drop down menu.
SNTP Server	A Simple Network Time Protocol (SNTP) server allows external devices to connect and set their current date and time settings to that of the SNTP. If required, enter the SNTP server IP address here.
PC Time	Displays the system time of the PC currently being used to view the webpages.

Sync Time (Blue)	Use this button to synchronise the time of the unit to that of the PC being used to view the webpages.

Note: *The PC Time and Sync Time options will only be available if viewing the menu via the webpages.*

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Serial Ports

This menu allows configuration of the unit's Serial ports. Refer to 'Installing the FireVu' for installation information.

Serial Port	These are the four serial ports available.
Port Config	The serial ports can be configured to specific uses. Select from:

None	Switches port off
Debug	Sets port for serial communications
PPP	Sets port for Point to Point Protocol
Telem	Sets port for Telemetry purposes
Comm	Sets port for Comms purposes
EPOS	Sets the serial port for connection to an EPOS (Electronic Point Of Sale) device

Interface Type	Choose the type of serial interface being used. Select from RS232, RS485 or RS422.
Baud/Parity/Data/Stop/Flow Control	These options allow the Serial port communication settings to be configured.

Note: *When a telemetry protocol is selected, these settings will default to pre-determined values and should not normally be altered.*

Protocol	This is a drop down list of serial telemetry protocols supported by the unit.

Features

This menu enables the activation of system features such as Email Reporting and Text In Images.

Detected Video Standard	The unit automatically detects the video standard being used i.e. PAL/NTSC.
Horizontal/Vertical	Edit the resolution settings. This will be the fundamental resolution for the unit.
Text in Images	Select this option to activate the Text in Images function, refer to 'Analytics & Text-Text In Image' for more information.

Note: *When de-selected here, the 'Text in Image' menu will no longer be displayed in the menu tree.*

Email Reporting	Select this option to activate the Email Reporting function, refer to 'Network Settings-E-mail' for more information.

Note: *When de-selected here, the 'Email Reporting' menu will no longer be displayed in the menu tree.*

Remote Reporting	Select this option to activate the Remote Reporting function, refer to 'Network Settings-Remote Reporting' for more information.

Note: *When de-selected here, the 'Remote Reporting' menu will no longer be displayed in the menu tree.*

Deinterlacemask	Select this option to improve display clarity and minimise the comb effect that may be visible when recording high motion scenes in 4CIF mode.
Use Record Profiles For Tx	Select this option when units required Video Transmission profile (rate/quality/resolution) is identical to that being recorded.
Secondary Web Port	If the default port setting for web serving has already been allocated, it is possible to configure a second port number i.e. the secondary web port can be set to 8000 if the default web port (80) is blocked by the network or firewall.

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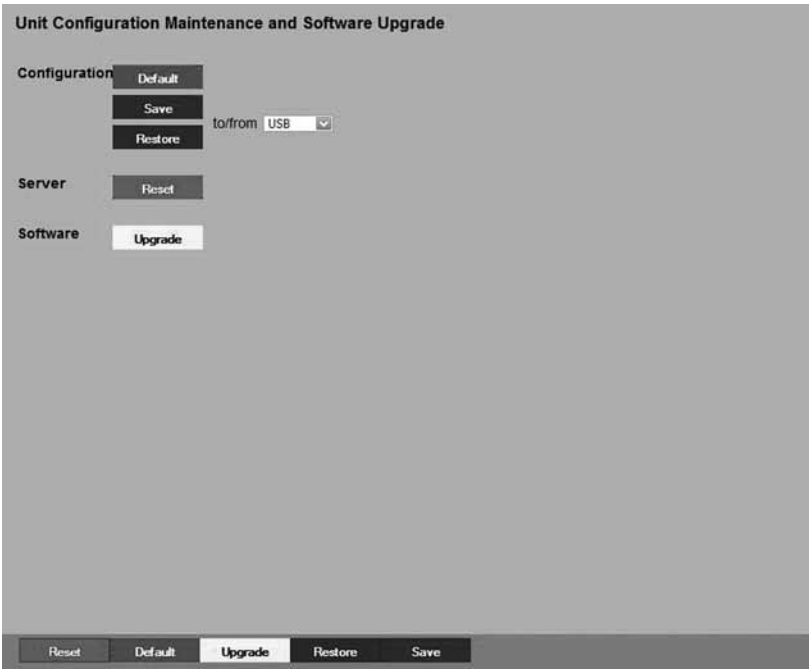
Telem UDP Port Selection	Select ‘Automatic’ to enable the unit to select a suitable port for telemetry purposes. Select ‘Default’ to use the default port settings (1025). Select ‘User Defined’ to use settings entered in the ‘Telemetry Port’ option.
Telemetry Port	Enter the port settings for telemetry data here. The default setting is 1025.
User Logging	Enable this option to activate User Logging. Refer to the appendices for further information regarding the User Logging function.
Comb Filter	Enable this option to activate the Comb Filter function. Comb Filter can help improve the fine details of a video signal image by filtering the luminance and chrominance separation process.
Auto Update Web Variables	Configures the unit to update all system variables required for an automatic upgrade without requiring confirmation. Do not check this box if you run a customised applet.
Disable Transcoding	Select to disable the unit’s transcoding capabilities. In normal circumstances this should always remain enabled, however it can be useful to disable the feature when conducting maintenance.
Enable External Modules	Select to enable any connected RS485 alarm modules.

Maintain

This menu allows the unit to be reset and a software upgrade to be performed via an inserted CD/DVD or a connected USB device. Current unit settings can also be saved for future use and previously saved settings restored.



Configuration

Default (Green) — Select to return the unit to its factory default settings.

Note: *Selecting the Default button will cause the system to reboot.*

Save (Purple) — Select to save current unit settings to the selected media.

Restore (Blue) — Select to restore previously saved settings from the selected media.

Note: *Selecting the Restore button will cause the system to reboot.*

To/From — Select the relevant media device to save to or restore from i.e. USB or CD/DVD.

Server

Reset (Red) — Select to cycle the power to the unit.

IMPORTANT: *To upgrade the unit, insert a media device containing relevant software upgrades and select 'Reset'.*

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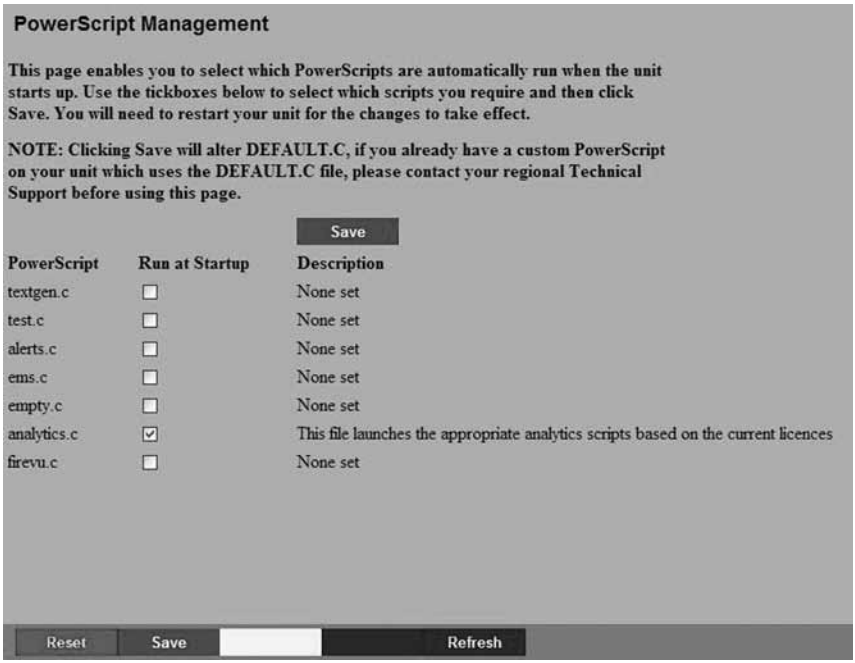
PowerScript Mgmt

This menu enables installed PowerScripts to be activated/deactivated on start-up. Use the tickbox(es) to select/deselect installed PowerScripts, then select Save (Green). A system reset will be required for the changes to take affect.



Note: *Changes this page will alter the 'Default.C' file. If you already have a custom PowerScript on your unit which uses Default.C, please contact D-Tec Technical Support for for further guidance.*

Database Configuration

This menu allows the Event database to be cleared and reset. The last reset time and current number of entries are also displayed.

Reset Database	Select to reset database.

Note: *All currently stored event information will be lost.*

Last Database Reset Time	Details the last reset time/date.
Current Number of Entries	Details the current number of entries within the database.

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Console Settings

The unit has an in-built NetVu Console facility. This enables connection to a maximum of 20 systems. Each system can consist of up to 99 cameras originating from up to 8 NetVu Connected DVRs/Servers over the network. Selected camera feeds can be viewed and controlled via the Viewer menus. Refer to the individual menus for more information.

The System Config page dictates which cameras and systems the FireVu will connect to, and controls how the video feeds will be displayed.

The System Overview page gives an overview of all connected cameras and their home servers across all systems.

Note: *The System Overview page can only be accessed if viewing the Configuration menus remotely via an IP connection.*

The Viewer Defaults page allows the Viewer menu settings to be configured.

The Display page controls how the local monitors present information. They control whether text will be displayed on the Main or Spot monitors, the colour of that text, and how long cameras being displayed in sequence will be shown on screen.

The Map Config page allows images to be imported and used as maps displayed in the Viewer menus. Hot spots can be added to allow quick navigation to individual cameras.

The Map Data page allows Map Config information to be saved for future use. Previously saved data can also be uploaded.

The User Accounts page helps protect configuration procedures by limiting access to specific users via accounts and passwords.

System Config

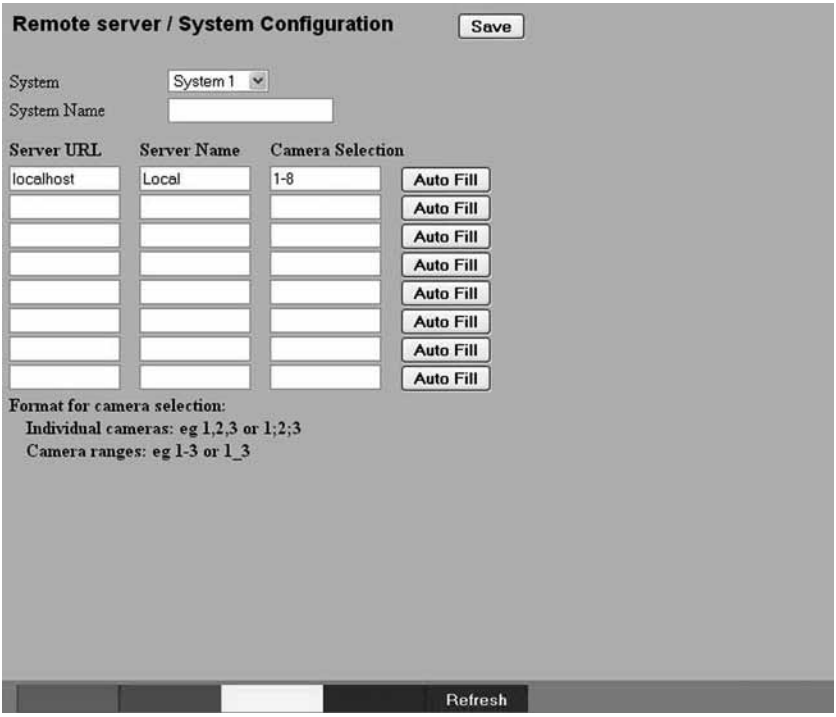
The unit can be configured with up to 20 systems. A system is a collection of DVRs and cameras selected from those DVRs. Systems are not formally connected networks but a collection of DVRs viewable over an IP network. Each system provides access and control of up to 99 cameras at any one time.

Each individual system can be selected from a drop down menu.

Camera numbering is sequential within that system (up to the maximum 99 cameras per system).

Note: *For local camera feeds to function correctly, ensure the first server option for System 1 is configured to display the local cameras as shown below:*

Server URL	Server Name	Camera Selection
localhost	local	1-4, 1-8 or 1-16



System	Select from 20 available systems using the drop down menu.
System Name	If required, enter a recognisable name for the system (this name is held on the FireVu and represents the system).
Server URL	Enter the IP addresses of the servers providing the video signals.
Server Name	Enter a name for the accompanying requested server (this name is held on the unit and represents this server).
Camera Selection	Select the cameras to be accessed. To select individual cameras, use the format 1,3,5 or 1:3:5 etc. To select a range of cameras, use the format 1-3 or 1_3 etc. All connected, non-covert cameras within the range will be added in numerical connection order.
Auto Fill	When a URL has been entered, select to add the Server Name and all connected cameras to the Camera Selection list

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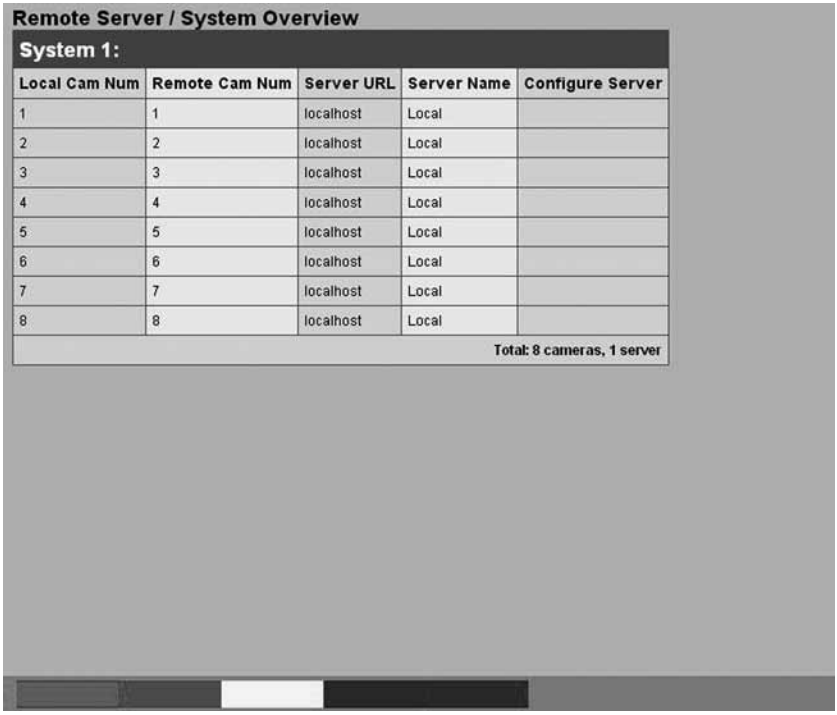
Systems Overview

This menu gives an overview of all connected cameras and their home servers across all systems. The numbers allocated to each camera, both 'locally' within each System, and 'remotely' by their servers are displayed. The Configuration pages for each connected server can also be accessed (if access rights permit).

Note: *This page will only be available if accessing the Configuration menus remotely i.e. via an I.P connection.*

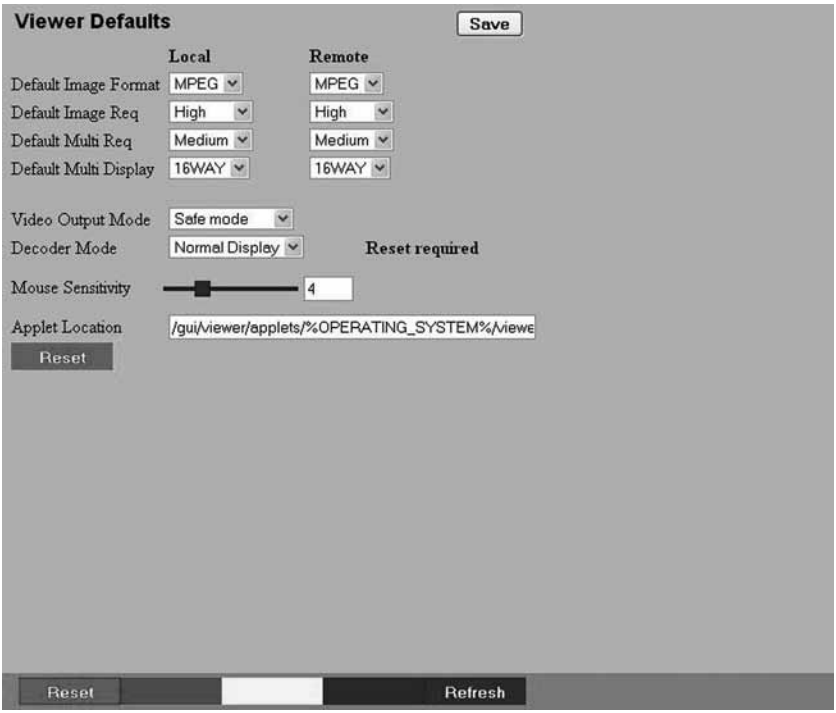


Local Cam Num	Identifies the number the camera is allocated in each system i.e. to access Camera 1 in System 1, first select System 1 via the System Selection map, then select Camera 1.
Remote Cam Num	Identifies the number the camera is allocated on its server. Selecting this number via the Viewer menus will not result in images from that camera being displayed.
Server URL	Identifies the URL address of the server the camera is located on.
Server Name	Identifies the name assigned to the server the camera is located on.
Configure Server	Select the Config Pages option to access the configuration pages for the selected Server.

Note: *Passwords maybe required to successfully access server configuration pages.*

Viewer Defaults

The FireVu's Viewer function allows remote users to simulate local operation over a network. This menu allows configuration of settings for the Viewer function. Refer to 'Operating The Viewer' for more information regarding the Viewer.



Default Image Format	Images requested from the connected DVRs and/or NetVu Connected Servers can be displayed in either JPEG or MPEG format.
Default Image Req	Images displayed full screen in the Viewer menus can be shown in either High Medium or Low resolution.
Default Multi Req	Images displayed in multiscreen in the Viewer menus can be displayed in either High Medium or Low resolution.

Note: *These configurations can be changed on a NetVu Connected Server or DVR.*

Default Multi Display — This controls how the unit will display the multiscreen option when selected via the Viewer menus. The default setting is 16 way.

Select from:
- Full
- Quad
- 6 way (6 cameras displayed per monitor)
- 7 way (7 cameras displayed per monitor)
- 9 way (9 cameras displayed per monitor)
- 10 way (10 cameras displayed per monitor)
- 13 way (13 cameras displayed per monitor)
- 16 way (16 cameras displayed per monitor)
- PinP (Picture in Picture)

Note: *Remote Viewers and some HDMI monitor configurations may not support all these views.*

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Video Output mode	Select the display output that best suits the viewing monitor. Select from: Safe Mode HD Default HD 4x3 HDMI Example New DGM HDMI LG1 HDMI LG2 Safe mode is the default setting. This allows basic (not optimised for quality) viewing on all HDMI or CRT monitors.

IMPORTANT: *When in 'Safe Mode', viewing is possible via one display format only i.e. if a HDMI cable is connected to the unit, it will not be possible to view a monitor connected via BNC connector 'MON A'.*

Note: *It will be necessary to reboot the unit to implement any change to the Video Output Mode.*

Mouse Sensitivity	The sensitivity settings of the mouse can be adjusted from the least sensitive (1) to the most sensitive (10). The setting can be adjusted via the slidebar or a number entered directly into the accompanying textbox. The default setting is 4.
Decoder Mode	Select from Normal Display or Decoder Mode. Normal Display allows cameras to be accessed and controlled via the Viewer menu. In Decoder Mode, connected cameras can be accessed, viewed or controlled via Pick-a-Point system.
Applet Location	The location of the unit's Viewer menu applet is displayed. The default location will always be the applet installed on the unit. If accessing multiple units via a remote connection, all can be assigned the same Viewer applet. This will lessen the load time required when accessing different DVRs/Servers. For example, if a local unit and a remote DVR are to be accessed, it is possible to set the Applet location for both DVRs as the local unit. If viewing the unit remotely, D-Tec provide a remote applet located at www.dedicatedmicros.com/software_release/index_firmware.php. Due to possible bandwith restrictions on the network the DVR is located, using this remote applet may improve data transfer speeds.

Display

This menu allows configuration of monitor settings used when viewing camera images and text data.

Main monitor text	It is possible to select text to be displayed on the main monitor. The text displayed will include; time, date, mode of operation (Set, Unset or Overide), camera number and camera title.
Text Colour	The colour of the displayed text can be changed. Select from the options available in the drop down list.
Background Colour	A black background appears by default around the text. It is possible to change the colour of this background. Select from the options available in the drop down list.
Sequence Dwell (secs)	The sequence dwell time can be set from 1 to 99 seconds. The dwell time is the period a camera's images are displayed before switching to the next camera in the sequence.
Spot monitor text	It is possible to select text to be displayed on the spot monitor. The text displayed will include; time, date, camera number and camera title.
Spot Sequence Dwell	The spot sequence dwell time can be set from 1 to 99 seconds. The dwell time is the period a camera's images are displayed on a connected spot monitor before switching to the next camera in the sequence.
Spot Sequence Setup	All of the unit's camera input channels are shown. To include any of these camera channels in the spot monitor sequence, selected the accompanying tickbox.

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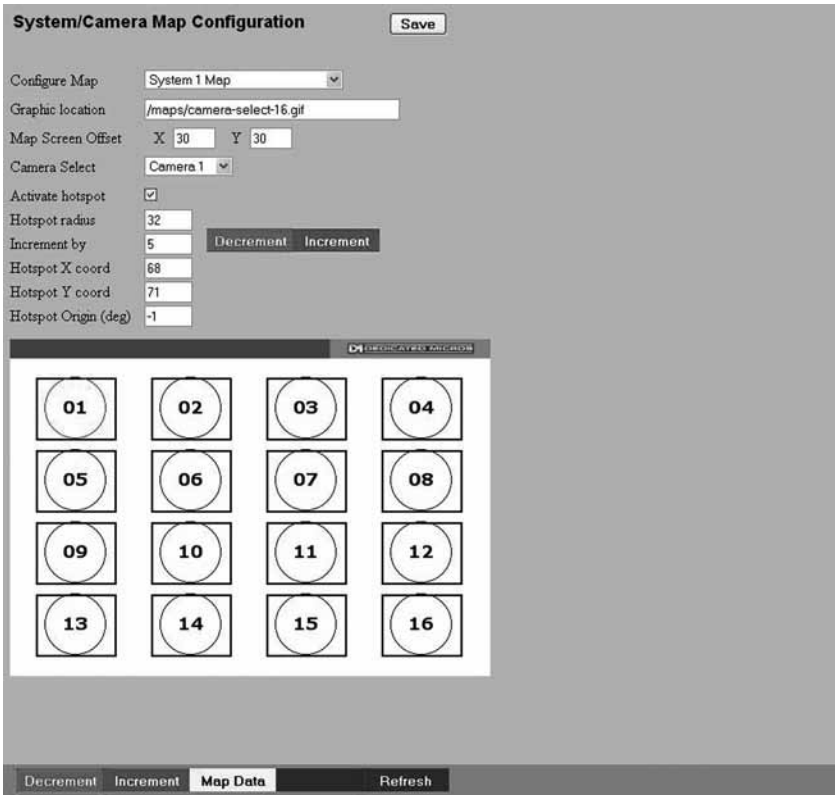
Map Config

This menu allows images to be imported and used as maps that can be displayed in the Viewer Menus. The map can then have hotspots added to allow quick navigation to individual cameras. An overview 'System Selection Map' can also be added to navigate between different systems.



Configure Map	Select the relevant system using the drop down menu, or use the 'Overall System Selection Map' option to create a map to navigate between systems. The Overall System Selection Map will display all available numbered systems. Selecting a hotspot then opens the relevant System camera map.
Graphic Location	Enter the location of the relevant map graphic, including the full I.P address of the server holding the map. The map image will be displayed if linking is successful. The linked map can be in gif or jpeg format and should not exceed 500 by 350 pixels.
Map Screen Offset	These co-ordinates represent the top left corner of the map graphic as displayed in the Viewer menu.
Camera Select	Select which camera is to be linked to the created hotspot.
Activate Hotspot	Select to activate and display the camera hotspot.
Hotspot Radius	Enter the radius (in pixels) of the hotspot.
Increment by	If using the Decrement (Red) or Increment (Green) buttons, enter the size (in pixels) that the hotspot will increase/decrease.

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Decrement (Red)	Select to reduce size of hotspot.
Increment (Green)	Select to increase size of hotspot.
Hotspot X coord	Use to position the centre of the hotspot along the X axis e.g. entering 20 would place the hotspot centre 20 pixels from the left edge of the map.
Hotspot Y coord	Use to position the centre of the hotspot along the Y axis e.g. entering 20 would place the hotspot centre 20 pixels from the bottom edge of the map.

Note: *The hotspot can also be positioned by clicking directly on the map.*

Hotspot Origin (deg)	This option should be used when the hotspot relates to a Oracle Dome camera. Clicking the hotspot will send the Oracle Dome camera to a pre-determined view (absolute positioning). However if the dead centre of the hotspot is selected, the camera will be viewed from its current location. The absolute positioning point will depend on the data entered here. A setting of '0' would result in the camera facing its Original (base) position. To change the preset position, enter a number between 1 and 360. A setting of 20 would set the preset position to 20 degrees to the right of its 'origin' position, 180 would send it to face in the opposite direction (of its base position) . Refer to the 'Viewer Menus-PTZ Profile menu' for information on establishing an Origin position for a PTZ camera.

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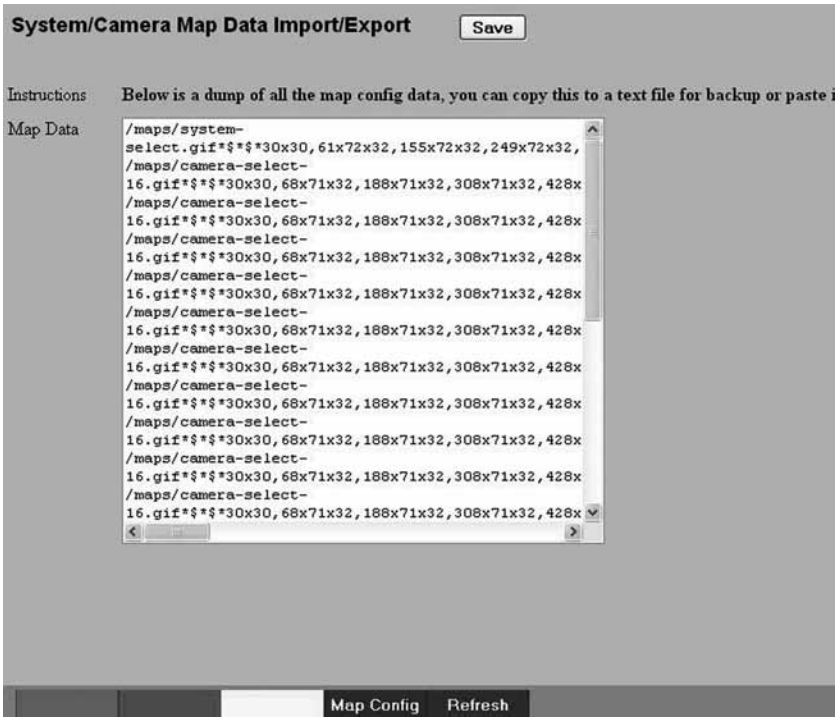
Map Data

The Map Data menu allows Map Config data to be Imported/Exported. This enables map data to be saved and stored for future use, or used between multiple units.

Note: *The Map Data menu will only be available when viewing the menu pages remotely i.e. via the webpages.*



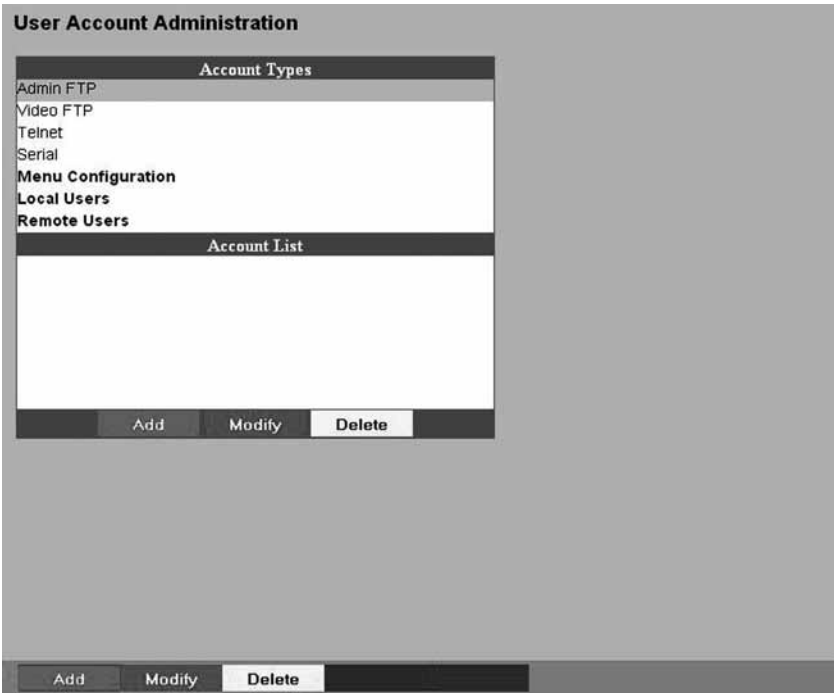
To save map data, highlight and copy all text displayed in the Map Data text window, then save this data as a text file.

To import data, copy relevant text from an external location and paste into the Map Data text window. When the menu is exited, this data will be used as the Map Config settings.

Note: *If importing data, remember to first save any current map data as required.*

User Accounts

The unit can protect configuration procedures by limiting access via usernames and passwords.



Account Types

The available account types for which users and passwords can be assigned privileges are:

- Admin FTP

  Assigning username and password requirements for the Admin FTP function will limit access to the unit via an FTP connection.

- Video FTP

  Assigning username and password requirements for the Video FTP function will limit access to the Video FTP archiving feature (used with DM's NetVu ObserVer).

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- Telnet

  Assigning username and password requirements for Telnet connections will limit Telnet access to the unit (Telnet can be used to upgrade the unit).

- Serial

  Assigning username and password requirements for Serial connections will limit access via a Serial link.

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- WebPage Configuration

  Assigning WebPage Configuration privileges will limit access to the Configuration menus when viewed remotely. When implemented, the user will be prompted for a username and password before access to the Configuration menus (via the main menu) will be granted.

- Menu Configuration

  Assigning Menu Configuration access privileges will limit access to the Configuration menus when viewed locally. When implemented, the user will be prompted for a username and password before access to the Configuration menus (via the main menu) will be granted.

- Local Users

  Assigning Local Users access privileges will limit access to the Viewer pages for local users. When implemented, the local user will be prompted for a username and password before access to the Viewer pages (via the main menu) will be granted.

- Remote Users

  Assigning Remote Users access privileges will limit access to the Viewer pages for remote users. When implemented, the remote user will be prompted for a username and password before access to the Viewer pages (via the main menu) will be granted.

Note: *There are no default usernames and passwords for any of the Account Types. If none are assigned, access will be granted to all users and no request for a username and password will be made.*

Account List	When an Account Type is highlighted, details of users with access will be displayed.
Add	Highlight an administration feature i.e. Serial and select ‘Add’. Enter the new User Name and Password. That user’s name will now be displayed in the account list.
Modify/Delete	To modify or delete a user’s settings, highlight the user in the list and press the relevant button to Modify or Delete.

Camera Settings

The Camera Settings menus allow configuration of cameras connected to the unit. Refer to the individual menus for further details.

The Camera page allows the quick configuration of all connected local camera channels.

The Camera Setup page allows the colour and contrast settings for each individual camera to be adjusted (with a dynamic preview available).

The Camera Telemetry page enables telemetry capable cameras to be configured.

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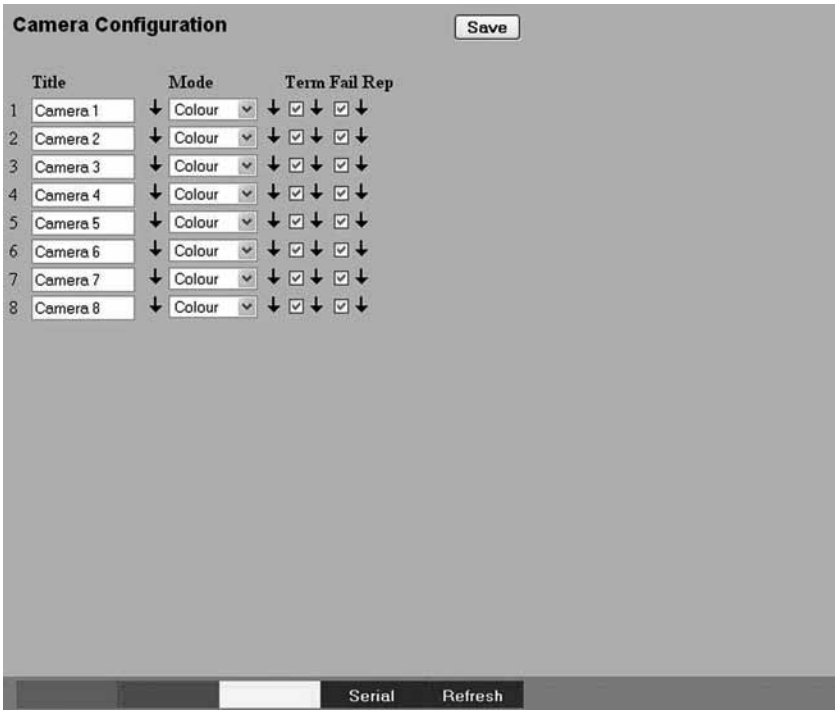
Camera

This menu allows the configuration of active local camera channels. This page will only display the cameras connected to the DVR via the BNC connectors on the rear of the unit, cameras in non-local systems cannot be edited on this page.

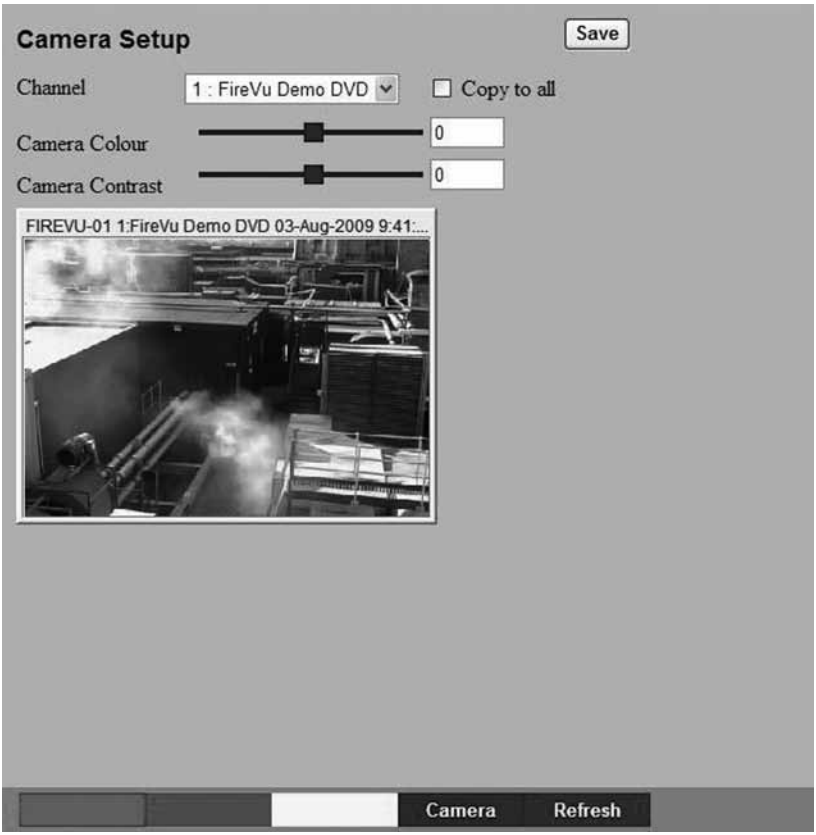


Title	Each of the camera titles can be edited for ease of use i.e. the camera type, location or view description could be used.
Mode	The settings will default to 'Colour'. If Monochrome cameras are used, select 'Mono'. Selecting 'Mono' will remove colour patterning. If a particular channel is not in use or the camera has failed, select 'Not Connected'.
Term	The unit will automatically terminate the camera input with 75Ω. This should be disabled if the video feed is looped through to another device.
Fail Rep	Select this option to activate a Failure report in the event of camera connection failure (video loss).

Note: *The arrow button displayed next to each textbox allows settings to be replicated for those cameras listed below. This will only affect the adjacent option i.e. Mode arrow will replicate the Mode setting to cameras below the clicked arrow.*

Camera Setup

This menu allows the colour and contrast settings for each individual camera to be adjusted.



Channel	Select a camera channel for review and adjustment.
Copy to all	Select this option to apply current settings to all connected cameras.
Camera Colour	Select a colour value from -8 to +8 via the slidebar or enter a number directly into the accompanying textbox.
Camera Contrast	Select a contrast value from -8 to +8 via the slidebar or enter a number directly into the accompanying textbox.

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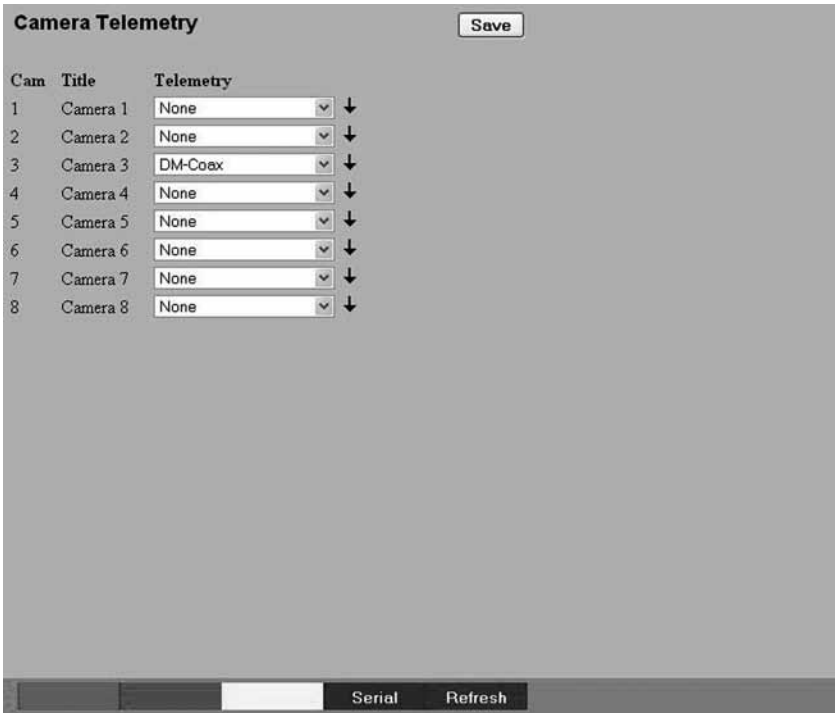
Camera Telemetry

This menu allows configuration of telemetry capable cameras and the assignment of telemetry protocols.



Cam	Lists available camera channels.
Title	Titles assigned to each camera are displayed.
Telemetry	If a telemetry capable camera is connected, the appropriate control protocol should be selected from the accompanying drop down list. Refer to the appendices for details of supported telemetry protocols.

Note: All RS485 telemetry cameras should be untermimated at the camera dome for maximum performance capabilities.

Note: *The arrow button displayed next to each textbox allows settings to be replicated for those cameras listed below. This will only affect the adjacent option i.e. Telemetry arrow will replicate the Telemetry setting for cameras below the clicked arrow.*

Record Settings

The Record Settings menus allow configuration of the unit's record functions. Record settings can be configured for normal operation, on alarm, by schedule and for set holiday and weekend periods. Selected video data can be saved and protected. Refer to the individual menus for further details.

The Record page allows the basic Recording settings to be edited.

The Profile Record page allows the recording configuration to be based on specific priorities. The record rate and quality can be customised to respond appropriately to the alarms and time of day. A high degree of control and flexibility is possible using these options.

The Schedule page is used to configure the Timer Function, this enables the unit to automatically be put into set/unset mode at specific times on specific days.

The Holiday and Weekend page enables Set mode to be activated for individual dates i.e. public holidays or weekends.

The Protect Video page allows previously recorded data to be protected and retained. If needed, all recording can be halted and saved video deleted.

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Record

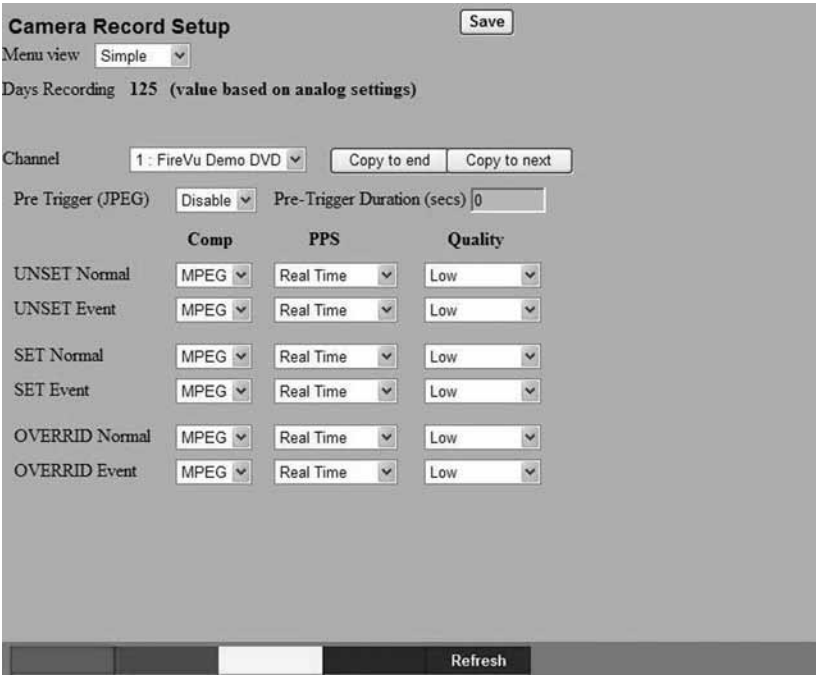
The unit has a range of pre-defined configurations available. As standard the unit can record at 25pps MPEG4. Alternatively the unit can be configured for 5pps JPEG recording on each camera or for MultiMode operation (note that this will result in the record duration being determined by the time period the unit is in alarm).

Days Recording	Displays the record duration possible using the current configuration.
Timed Expiry	If required, all stored recorded video can be permanently deleted after a set number of days. Set to '0' to de-activate this function.
Camera Settings	Choose the rate of non alarm recording to be used from the range of preset recording profiles.
Record Duration/Enhance Quality	The recording duration can be limited to a Low, Medium or High setting; allowing the recording quality to be enhanced for a shorter storage period.

Profile Record

It is possible to set the unit recording configuration based on specific priorities. The **Multi***Mode recording feature offers the ability to set different recording rates, resolutions and compression formats across unset, set and overide modes for each individual camera. By varying the quality, bit rate and file size of recorded images, the* **Multi***Mode function enables the recording capabilities of the unit to be greatly increased. The Profile record menu can be accessed in a Simple format or in Advanced mode. The Advanced mode offering greater opportunities to dynamically edit individual cameras recording capabilities.*

Simple Record



Menu View	Switch to the Advanced Profile Record menu.
Days Recording	Displays the record duration possible using the current configuration.
MPEG4 Compression	If using MPEG4 recording, edit the number of P-Frames recorded before a new I-Frame (keyframe) will be taken for all cameras.

Note: *Taking a new I frame once per second when recording above 5pps is recommended. When the unit rewinds and fast forwards through recorded video, it will access I frames only (and skip P frames). Having too long an interval can make viewing the images in these modes difficult to follow. Note however that too short an interval will reduce the benefits of lower bit rate MPEG4 recording.*

Max Collection Resolution	Setting the Max Collection Resolution limits the unit to record within the following maximum resolutions across all cameras: CIF global pps at a maximum 400pps. 2CIF global pps at a maximum 200pps.

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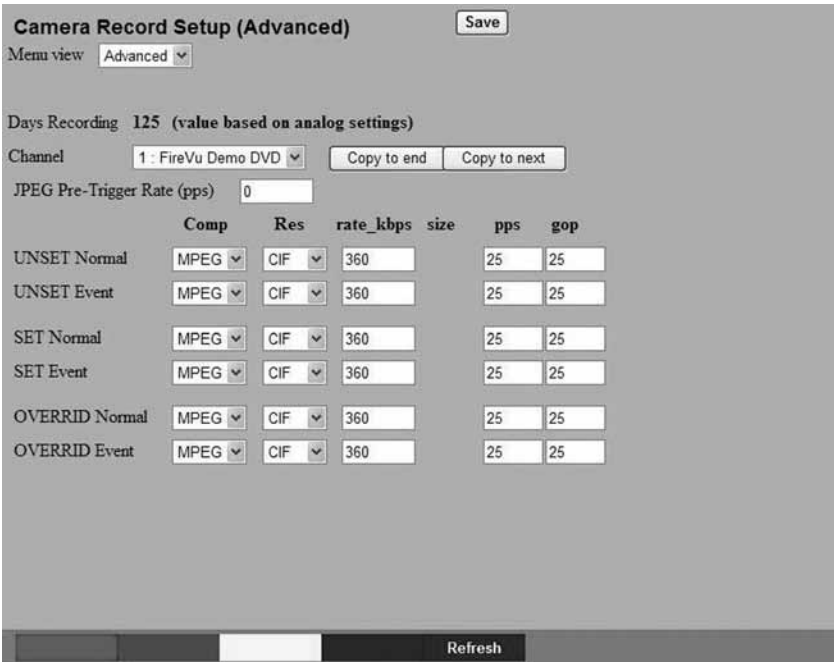
	4CIF global pps at a maximum 100pps. Lowering the resoluion settings will significantly lessen the storage capacity requirements.
Channel	Enables selection of a specific camera for editing.
Copy To End	Select to copy the current profile record settings to all camera channels.
Copy To Next	Select to copy the current profile record settings to the next camera channel.
Pre-Trigger (JPEG)	Enablng the Pre-Trigger feature will buffer and store alarm recording prior to an event trigger (in JPEG format). It will use the maximum available memory dependent on other cameras requirements of the buffer space. Select 'Enable' to activate.

Note: *It is recommended that the Pre-Alarm option in the 'Alarm Settings-Zone Input' menu be set to the same value as the Pre-Trigger setting. This will ensure successful playback of high quality Pre-Trigger images. High quality pre-trigger images will only playback properly if review (playback) starts prior to the pre-trigger initiation.*

Pre-Trigger Duration (secs)	The Pre-Trigger Duration is the maximum possible time that data will be stored prior to an event trigger.
Unset/Set/Override Normal	Shows the recording profile used by the camera if no Timer Functions are applied and the camera is operating under Normal (non Event) conditions. Refer to the 'Schedules' section for further details.
Unset/Set/Override Event	Shows the recording quality that will be used by the camera during an Alarm or Event. Note that Set and Override schedules will be used only when Timed Schedules are applied. Refer to the 'Schedules' section for further details.
Comp	Select image compression format (MPEG or JPEG).
PPS	The accompanying dropdown list allows the number of frames captured per second to be set. The pictures per second (pps) option allows either 6, 5, 2, 1, 0.5, 0.25 or 0.1 pps to be recorded. Pictures can also be recorded at 'Real Time' speed, '3/4 Real Time' or '1/2 Real Time'. To disable record, choose the 'No Record' option. Select 'User Defined' to use settings established in the Advanced Profile Record menu.
Quality	The accompanying dropdown list allows the quality of recorded images to be set. Select from Maximum, Very High, High, Medium, or Low. Select User Defined to use settings established in the Advance Profile Record menu.

Note: *The higher the Quality setting, the greater the storage space used.*

Advanced Record



Menu View	Switch to the Simple Profile Record menu.

Note: *When Advanced Record settings have been changed, it is not possible access the Simple Record menu until the newly configured Advanced Record settings have been applied. To do this, open the Record menu and select the 'Save' option. It will then be possible to return to the Profile Record menu and access Simple Record.*

Days Recording	Displays the record duration possible using the current configuration.
Max Collection Resolution	Setting the Max Collection Resolution limits the unit to record within the following maximum resolutions across all cameras: CIF global pps at a maximum 400pps. 2CIF global pps at a maximum 200pps. 4CIF global pps at a maximum 100pps. Lowering the resoluion settings will significantly lessen the storage capacity requirements.
Channel	Enables selection of a specific camera for editing.
Copy To End	Select to copy the current profile record settings to all camera channels.
Copy To Next	Select to copy the current profile record settings to the next camera channel.
JPEG Pre-Trigger Rate (pps)	The Pre-Trigger feature will buffer and store alarm recording prior to an event trigger (in JPEG format). It will use the maximum available memory dependent on other cameras requirements of the buffer space. Enter the record rate (in pps).
Unset/Set/Override Normal	Shows the recording profile used by the camera if no Timed Schedules are applied and the camera is operating under Normal (non Event) conditions. Refer to 'Schedule' for further information.

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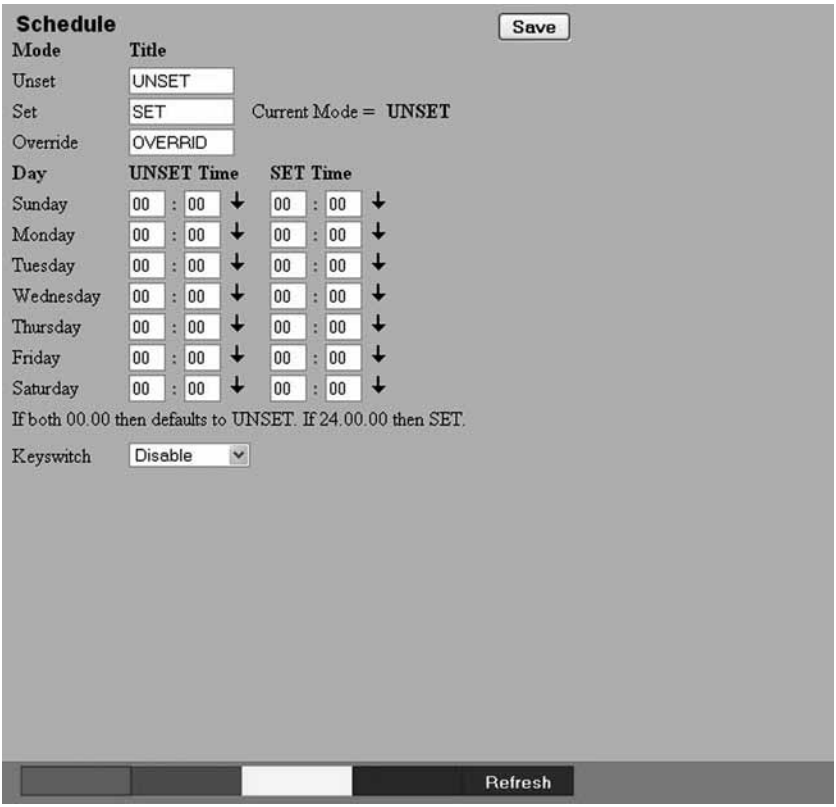
Unset/Set/Override Event	Shows the recording quality that will be used by the camera during an Alarm or Event. Note that Set and Override schedules will be used only when Timed Schedules are applied. Refer to 'Schedule' for further information.
Comp	Select image compression format (MPEG or JPEG).
Res	Select image resolution format (QCIF, CIF, 2CIF or 4CIF).
Rate_kbps	If MPEG4 is selected, the figure entered here will be the bit rate allocated. A higher bit rate will provide better quality. MPEG bit rates can be entered within the range of 45-2500K bits/second.
Size	If JPEG is selected, the figure entered here will be the size of the JPEG transmitted (in Kbytes). JPEG file sizes can be configured within the range of 5-45Kbytes.
PPS	Select the number of pictures recorded per second.
GOP	If using MPEG4 recording, select the number of images recorded within a GOP (Group of Pictures). A GOP consists of an I-Frame (keyframe) and following P frames.

Schedule

This menu allows the Timer Function to be configured. The Timer Function enables the unit to automatically be put into set/unset mode at specific times on specific days. This can help reduce unnecessary alarm triggers.

When the unit is in Set or Unset mode, combine with different recording qualities and rates under normal and alarm conditions for a high degree of control in a range of situations.

Note: *If Keyswitch is Enabled, the Day Time and Night Time options will not be displayed. The additional Keyswitch options will instead be displayed.*



Mode/Title	Enables a name to be entered for Unset, Set and Override mode.
Current Mode	Shows the current timer mode according to the names entered in the Mode/Title text boxes.
Day Time	Enter the time (using the 24hr clock) when Unset mode will begin.
Night Time	Enter the time (using the 24hr clock) when Set mode will begin.
Keyswitch	A Keyswitch can be used to switch the recording profile (Unset/ Set), If required, select 'Enable' then choose a contact to be used in a specific zone as the Keyswitch.

Note: *When the Keyswitch option is set to 'Enabled'. It is necessary to save (or exit and return to) the menu. The additional Keyswitch options will then be displayed.*

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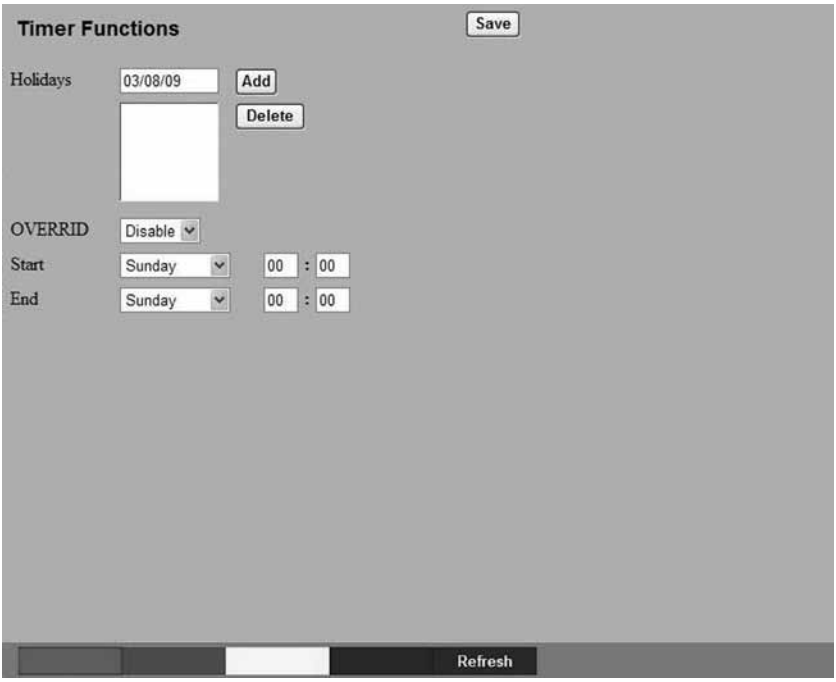
Keyswitch-N/O	Select whether the Keyswitch is to be normally open (UNSET)
Keyswitch EOL	Select to configure the Keyswitch for EOL. The End Of Line (EOL) option enables the Keyswitch to detect any changes in the electronic input resistance. A change outside the expected values will result in a Tamper Alarm (short circuit or open circuit) being detected and the system switching to alarm mode.

Holidays & Weekends

This menu allows the unit to be automatically switched to Override mode for individual days i.e. public holidays or during a weekend (or any defined period).



Holidays	Enter a date and press the Add button. The date will be added to the Holiday list. To delete, highlight and select Delete.
Overide	Select 'Enable' to activate the Overide (Weekend) function. Set mode will now be active for the dates outlined below.
Start	Select a Start day and time for Weekend mode.
End	Select an End day and time for Weekend mode.

Note: *Weekend mode will remain activate each week until deselected.*

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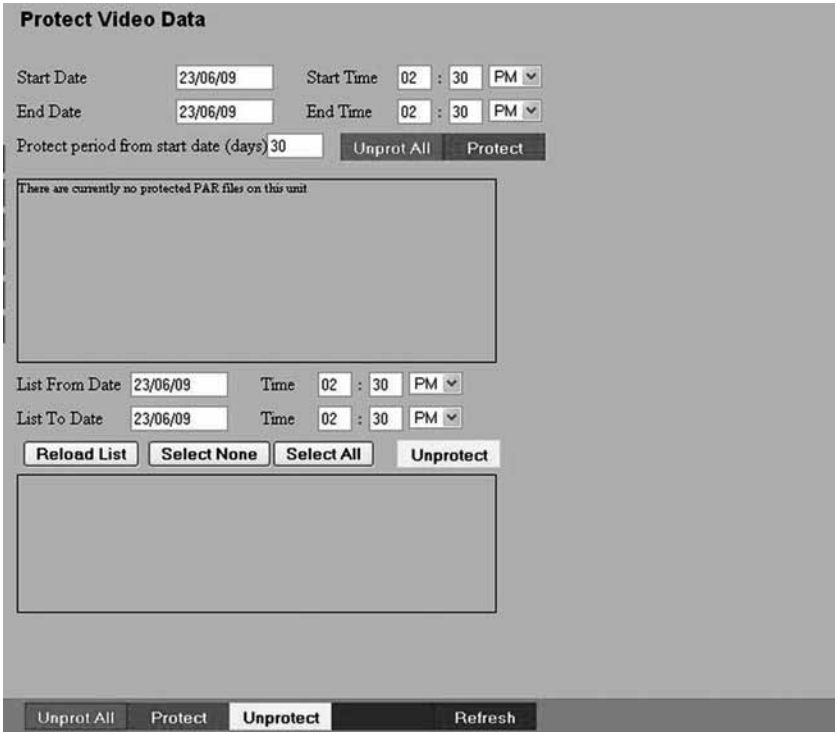
Protect Video

This menu allows the unit to automatically protect and retain recorded data. Previously saved data can also be unprotected. Enter a start and end time and select 'Reload List' . All saved video files from the chosen time period will be shown in the upper textbox. These recorded 'PAR' files can then be selected and protected via their accompanying checkboxes and the Protect option. Selected video files can also be unprotected via the Unprotect option.

The lower textbox provides a status report detailing which video files have been protected/unprotected.



Start Date	Enter a start date to protect video.
Start Time	Enter a start time to protect video.
End Date	Enter an end date to protect video.
End Time	Enter an end time to protect video.
Protect Length (days)	Enter the number of days that selected files will be protected for.
Protect	Select this option to protect recorded video for the selected time period(s).
Unprotect	Select this option to unprotect recorded video selected from the list.
Reload List	This will refresh the video list according to the selections made in the Start Time/Date and End Time/Date dialog boxes.
Select None	This de-selects all the available video files.
Select All	This selects all the available video files.

List From Date/Time	This dialog box allows a search to be made within the protected video list starting from a specific Time and Date.
List To Date/Time	This dialog box allows a search within the protected video list to conclude at a specific Time and Date.

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Alarm Settings

The Alarm Settings menus allow configuration of the unit's alarm functionality. Individual alarm inputs and alarm zones can be configured. Global relays can be activated and the Activity grid set up. Refer to the individual menus for further details.

The Alarm Input page allows configuration of alarm channels. Up to 20 alarm channels are available.

The Zone Input page enables the configuration of alarm zones. Up to 32 separate alarm zones can be created.

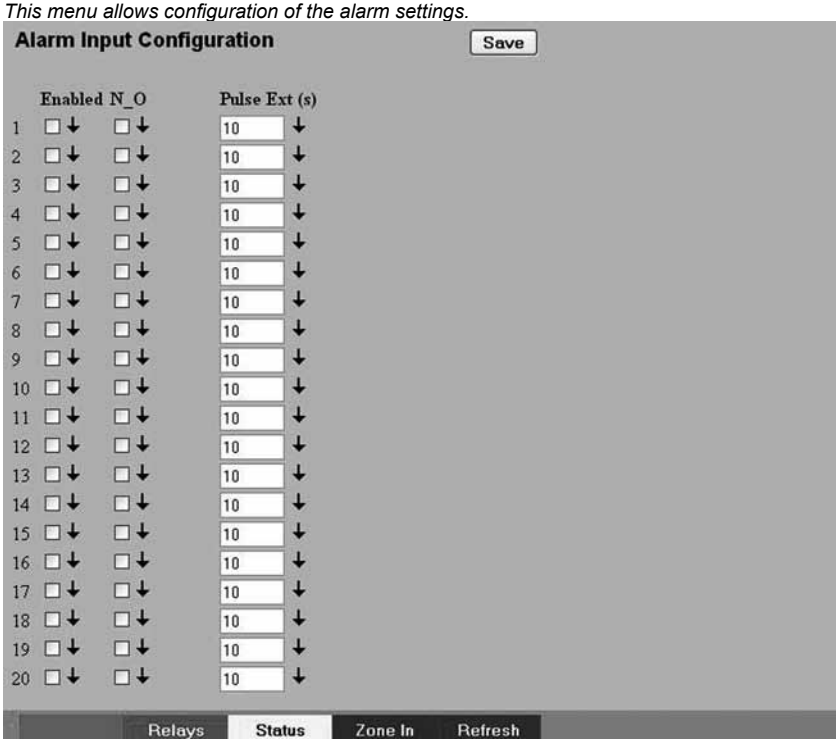
The Zone Actions page allows actions such as remote reporting and database entry activation.

The Global Relays page allows the four onboard relay connections and global relay settings to be configured.

This Relays Setup menu allows connected smoke detection relays to be set to normally closed.

Alarm Input

This menu allows configuration of the alarm settings.



Number	This identifies which input is being configured. The unit supports 20 on-board alarms.
Enabled	Each input must be enabled to function. If the input is not enabled and an alarm is received, the unit will not acknowledge the alarm.
N_O (Normally Open Contact)	N_O indicates the non-alarm state of the input. Tick the N_O checkbox to set the corresponding input to Normally Open. The alarm will then trigger when the input is closed (shorted). If left as Normally Closed (the default setting), the alarm will trigger when the input is opened.
Pulse Ext	A pulse extension is used to prevent double triggers on a single alarm. The pulse extension time starts on an alarm trigger. If that contact is triggered again after the first alarm has finished but within the pulse extension, the second trigger will not restart the alarm, but will extend the current alarm duration. Enter the time in seconds for this extension.

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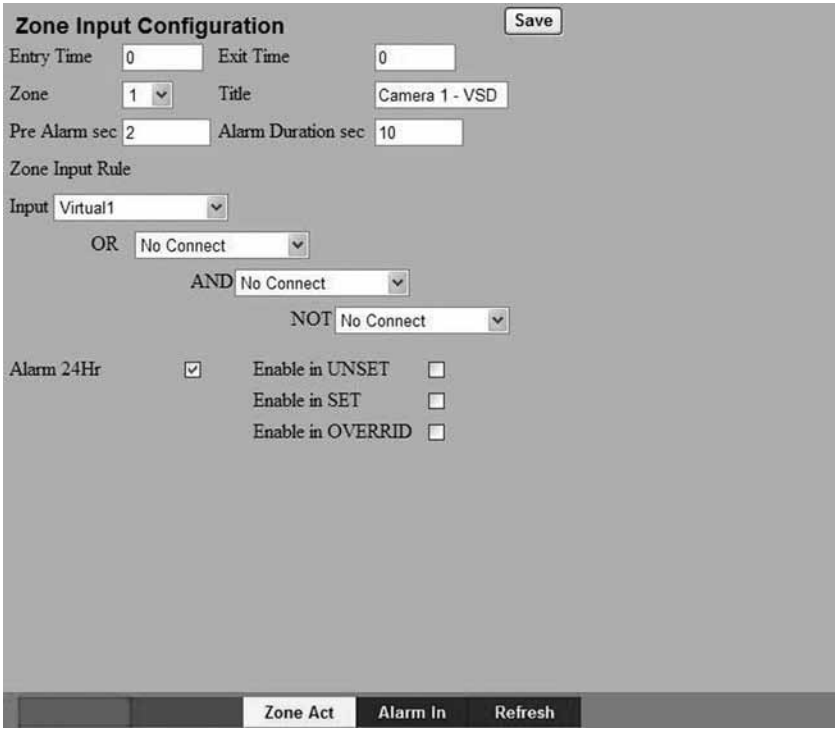
Zone Input

This menu allows the configuration of established alarm zones. An alarm zone can be established to logically groups alarms and initiate actions when an alarm is activated, there are 32 configurable zones. A single or multiple trigger can be used to generate an alarm. It is possible to allocate up to 32 alarm zones to carry out a combination of actions. Use these options in conjunction with the Zone Actions menu. Virtual alarms 1-8 are used for smoke detection purposes from camera inputs 1-8; virtual alarms 9-16 are used for flame detection from camera inputs 1-8.



Entry timer	This is the number of seconds allowed for the user to enter the zone and disable the alarms. If the alarm is not disabled within this period the alarm will be triggered.
Exit timer	This is the number of seconds from the alarm being set within which the user must exit the set zone. If the user is still within the zone after this time period the alarm will be triggered.
Zone	An alarm zone can be established to logically groups alarms and initiate actions when an alarm is activated, there are 32 configurable zones.
Title	This information is stored along with the relevant images in the database, ensure this has relevance to the alarm zone.
Pre-Alarm sec	This is the time period prior to the start of the alarm included with the alarm recording for archive. These images will also be protected from being overwritten.

Note: *It is recommended that the Pre-Alarm option be set to the same value as the Pre-Trigger setting in the "Profile Record" menu. This will ensure successful playback of high quality Pre-Trigger images. High quality pre-trigger images will only playback properly if review (playback) starts prior to the pre-trigger initiation.*

Alarm Duration sec	This is the minimum time period in seconds (from the start of the alarm) that is protected from being overwritten. This time will include the alarm trigger, the pulse extension and any post alarm recording. It will not include pre-alarm images.
Zone Input Rule	This determines which input(s) will trigger the zone alarm:

IMPORTANT: *Virtual alarms 1-8 are used for smoke detections purposes from camera inputs 1-8; virtual alarms 9-16 are used for flame detection from camera inputs 1-8.*

Input	This sets an input or system function as the primary alarm trigger. Select from Alarms 1-32, Activity 1-16, Preset 1-16, Disk Low, Disk Full, Panic, Archiving Slow, Archiving Fault, Virtual 1-16, and Keyword Channel 1-32 (which will trigger the Alarm if any or the 32 programmed keywords are detected on the selected channel).
Zone OR Input	The Zone OR Input identifies an alternative input that can also be used to trigger the zone alarm. This means an alarm trigger can be received on the Zone Alarm Input or the Zone OR Input for the zone to be activated.
Zone AND Input	The Zone AND Input identifies that an alarm trigger needs to be received on both the Zone Alarm Input and the Zone AND Input for the zone to be activated and the alarm action to the automatically initiated.
Zone NOT Input	The unit will only issue the alarm actions if the trigger is received on the zone alarm input and NOT on the Zone input.
Alarm 24Hr	This option can be enabled for alarms that do not require change at any time and are to remain as programmed i.e. Panic Alarm. When this is selected, the Set, Unset and Override options are disabled.
Enable in Unset	Each alarm can be configured to be active when the unit is in a specific operation mode. Enable this for the zone alarm to be active in Unset operation mode.
Enable in Set	Each alarm can be configured to be active when the unit is in a specific operation mode. Enable this for the zone alarm to be active in Set operation mode.
Enable in Override	Each alarm can be configured to be active when the unit is in a specific operation mode. Enable this for the zone alarm to be active in Override operation mode.

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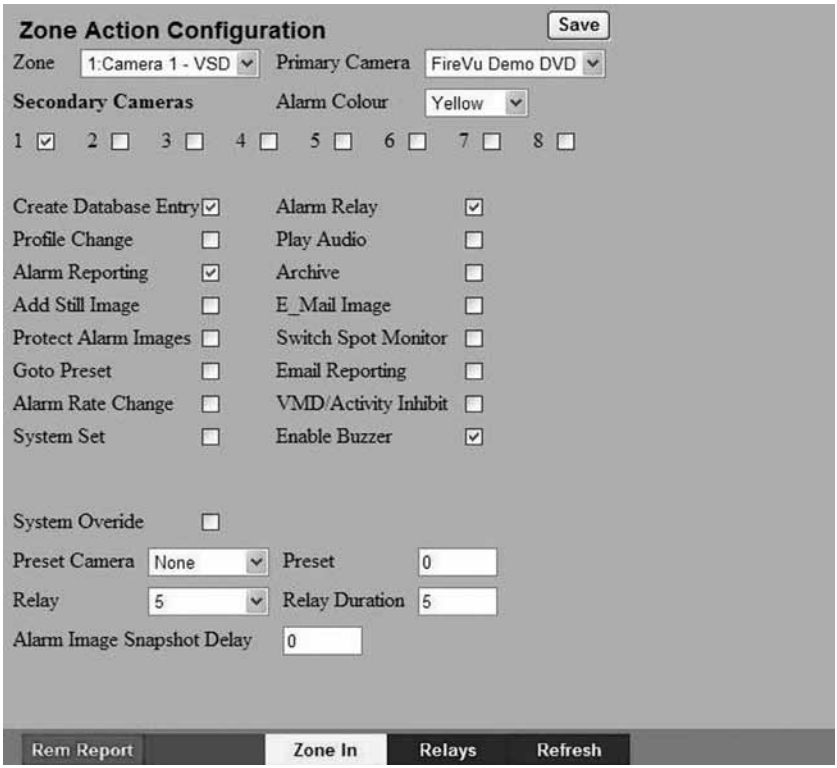
Zone Actions

This menu allows actions to be allocated to individual alarm zones; Primary and Secondary cameras can be allocated to the zone and actions undertaken following alarm activation. This page should be configured in conjunction with the Zone Inputs menu.



Zone	Select a zone (alarm) to configure.
Primary Camera	This allows a camera to be assigned as the primary camera associated with the Alarm Zone. The primary camera will be displayed when an alarm in this zone is triggered.
Alarm Colour	This displays the local alarm text in the selected colour and can be useful in prioritising alarms. Options available are Red, Green, Blue, Yellow, Cyan and Magenta.
Secondary Cameras	This setting gives the facility to assign additional cameras to the zone. These cameras will become part of the alarm sequence shown in the Viewer menus when the alarm zone is triggered.
Create Database Entry	An alarm activation will be added to the database. The zone title will be used as part of the entry information.
Alarm Relay	Select to trigger an alarm relay following zone activation. Select the specific relay via the 'Relay' option.
Profile Change	Select to enable the unit to switch from Normal to Event recording following alarm zone activation.
Play Audio	It is possible to play associated audio upon zone alarm activation.

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Alarm Reporting	This must be enabled to allow the unit to send an alarm notification to an external destination i.e an RVRC reporting via NetVu ObserVer
Archive	Select to ensure the unit automatically downloads alarm images via an FTP connection to an FTP server.
Add Still Image	This will record a still image of the trigger along with the standard recording. This can then be sent on to an external destination.
Email Image	If this option is selected, a JPEG will be added to the reporting email (if Email Reporting is selected).
Protect alarm Images	Alarm images can automatically be protected from being overwritten.
Switch Spot Monitor	Select to display the alarm zone Primary camera on the Spot Monitor.
Goto Preset	It is possible to action a camera to automatically be sent to a preset position when an alarm is triggered.
Email Reporting	The unit can send an email when an alarm is detected, refer to 'Network-E-mail' for more information.
VMD/Activity Inhibit	Select to inhibit (ignore) the VMD/Activity detection feature. Refer to 'Activity Setup' for more information.
Enable Buzzer	Select to activate the unit's internal buzzer upon alarm receipt
Preset Camera	The preset camera is the camera which will be sent to a designated preset position upon alarm activation.
Preset	Enter the preset position number for the selected camera here, refer to 'Unit Operation-PTZ Program' for more information on establishing camera preset positions.
Relay	Select an onboard or external relay to automatically close on receipt of an alarm.
Relay Duration	Enter (in seconds) how long the relay is to remain closed.
Alarm Image Snapshot Delay	This figure allows a delay to be introduced before an alarm snapshot is taken. This is used when the alarm relates to a PTZ camera which has to travel to a preset position.

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Global Actions

This menu details how to configure the default relay actions supported on the unit.
The unit supports four onboard relay connections and global relay settings. These global relays can be triggered under specific conditions i.e. camera failure.

Image Protection Period	Select a time period (in days) that images associated with an alarm will be protected from deletion.
Alarm Display Mode	When a relay has been triggered, the primary camera associated with that relay can immediately be displayed on the local monitor. Select 'Jump To Primary Camera' from the drop down list to activate this function.
Revert Display Mode after Alarm	Enable this setting to make the unit return to the view displayed before the alarm activation.
Alarm Display Alert	Enable this setting to display an alarm text alert in the colour specified in 'Alarm Colour' in the Zone Actions Menu.
Alarm (Relay 1)	Select this option to establish Alarm activity as a Global Relay trigger. Therefore the relay will close when any alarm activation on the unit is noted.
VMD (Relay 2)	Select this option to establish any VMD activity as a Global Relay trigger. Therefore the relay will close when any VMD activity on the unit is noted.

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Camera Fail (Relay 3)	Select this option to establish any camera fail trigger as a Global Relay. Therefore the relay will close when there is notification on the system that any of the enabled video inputs has camera failure (no 1V pk-to-pk signal).
System Set (Relay 4)	Select this option to establish a system reset as a Global Relay trigger. Therefore the relay will close when the unit is noted to reset.

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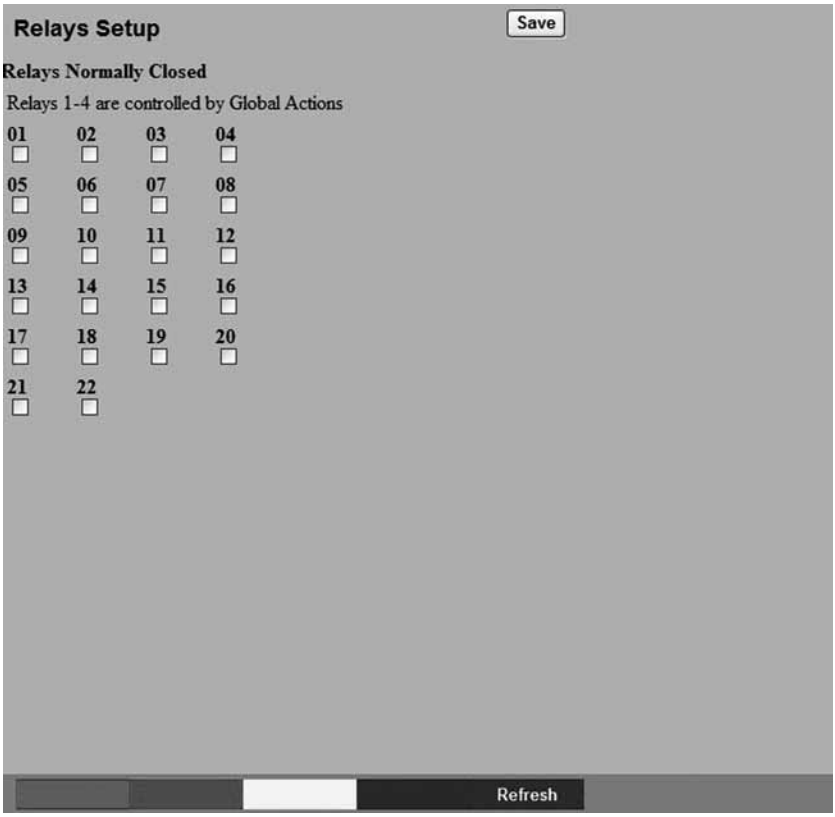
Relays Setup

This menu allows connected smoke detection relays to be set to normally closed.

IMPORTANT: *Relays 1-4 (the global relays) should be configured via the Global Actions menu (Alarm Settings->Global Actions).*



05-22	Select any of the smoke detection relay(s) 05-22 to be set as normally closed.

Network Settings

The Network Settings menus allow configuration of the unit's network functionality. Key network settings can be established such as 'fixing' the unit's IP address and maximum transmission rate. E-mail, remote reporting on alarm and FTP download can also be configured. Refer to the individual menus for further details.

The Network Settings page allows configuration of the unit's network connections such as the name assigned to the unit and its IP address.

The Gb Network page allows configuration of the unit 1Gb network port settings.

The Live Transmission page enables JPEG and MPEG profiles to be created for transmitting images via a High, Medium or Low quality network connections to any viewing software or to another unit using this one as an IP source..

The Email page allows configuration of the Email feature. The unit can automatically transmit an e-mail to an SMTP Server following an event i.e. on receipt of an alarm or a camera failure notice.

The Remote Reporting page allows a Remote Video Receiving Centre's (RVRC) configuration details to be entered. The RVRC will then be contacted following a selected event occurring i.e. reported alarm or camera failure.

This Firewall page allows the user to block access to the unit via specific network port(s).

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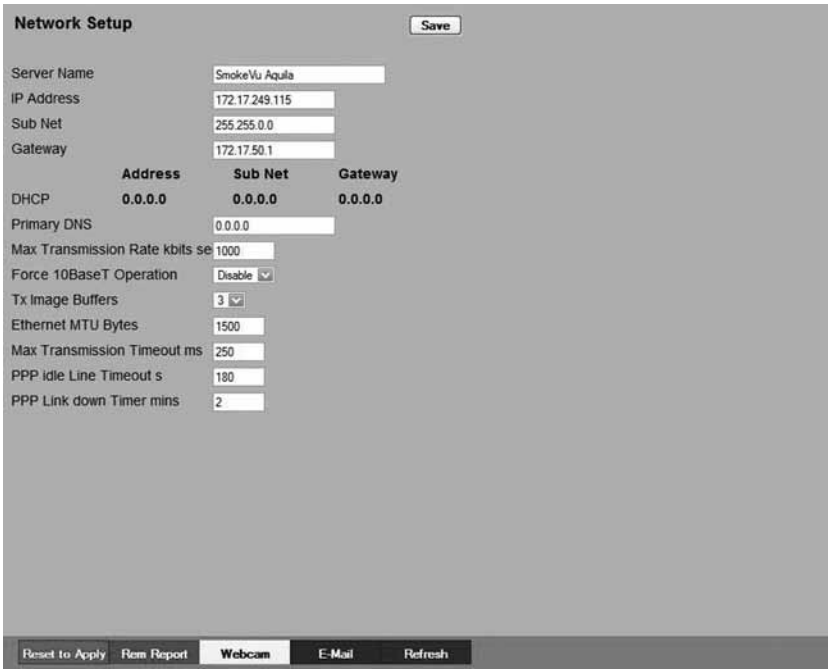
Network

This menu allows additional network settings to be configured if required. If utilising the 1Gb network connection, enter address details via Network Settings:Gb Network.



Server Name	This field can be edited to allocate a name to the unit. This would be used if accessing the unit via a Domain Name Server (DNS).
IP Address	This is the IP address allocated to the unit.
Sub Net	This is the subnet of the network were the unit is located.
Gateway	This is the IP address of the default gateway (router).

Note: *The above IP, Sub Net, and Gateway details relate to the 100baseT Network connection accessed via network port 2 on the unit, labelled 'NET 2'.*

Primary DNS	This is the primary DNS server IP address for applications utilising domain names.
Max Transmission Rate	This shows the maximum transmission speed for the network type being used.
Force 10BaseT operation	The unit supports 10 or 100BaseT half duplex transmission. Selecting this option will force the unit to operate at a 10BaseT connection.
Tx Image Buffers	This is used in order to improve the picture delivery over Ethernet when using a slow connection i.e. 256Kbps. A buffer setting of 1,2 or 3 is available.
Ethernet MTU	This is the maximum transmit unit for the Ethernet packet. The MTU is the largest physical packet size measured in bytes that the network can transmit. By default this figure is set to 1500bytes.
Mx Transmission Timeout ms	This is the time (in milliseconds) the unit will wait to re-send a packet if an acknowledgement is not received.

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PPP Idle Line Timeout s	This is the time (in seconds) the unit will wait before disconnecting the PPP (Point to Point Protocol) link if data has not been transmitted or received.
PPP Link Down Timer mins	If for any reason the PPP connection is lost, this is the time (in minutes) before the unit will be forced to drop the PPP connection.

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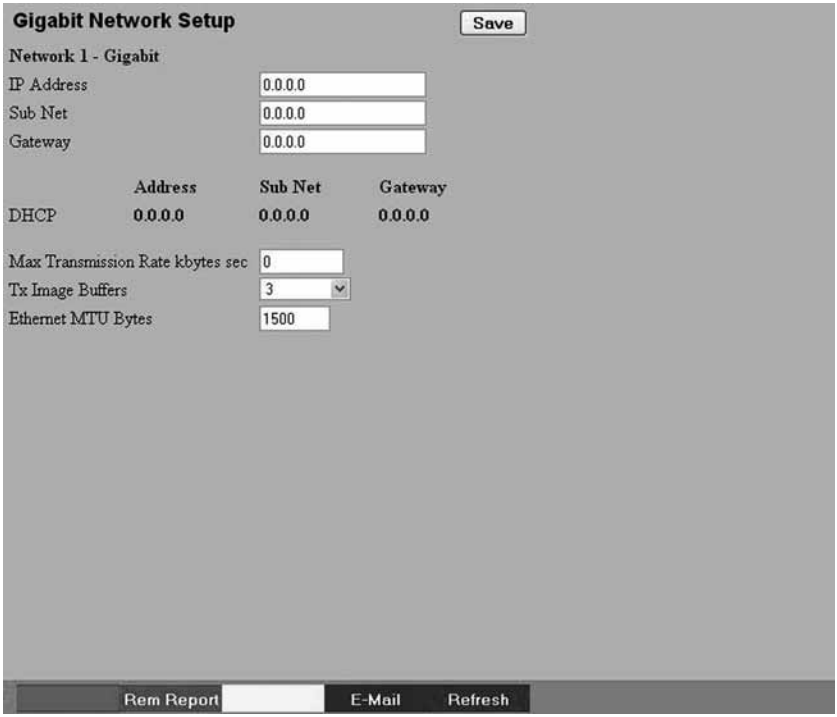
Gb Network

This menu allows the IP, Subnet and Gateway details to be configured for the 1Gb network connection. Utilising the Gb Network via Network port 1 on the unit, labelled 'NET 1'.

Note: *Any fixed IP address assigned to the 1Gb Network connection must NOT be the same address as that assigned to the 100BaseT connection as displayed in Network Settings->Network->IP Address.*



IP Address	This is the IP address allocated to the unit.
Sub Net	This is the subnet of the network were the unit is located.
Gateway	This is the IP address of the default gateway (router).
DHCP	The unit is set to default to DHCP. The unit can be installed in a DHCP network environment where an IP address, subnet mask and default gateway will automatically be allocated from the network DHCP Server. It is recommended that this be disabled as the DHCP address is automatically allocated from a pool of available IP addresses on power up. If the unit loses power, the connection could reset to a different number. Setting the IP address disables DHCP.
Max Transmission Rate kbytes sec	This shows the maximum transmission speed for the network type being used.

Tx Image Buffers	This is used in order to improve the picture delivery over Ethernet when using a slow connection i.e. 256Kbps. A buffer setting of 1,2 or 3 is available.
Ethernet MTU Bytes	This is the maximum transmit unit for the Ethernet packet. The MTU is the largest physical packet size measured in bytes that the network can transmit. By default this figure is set to 1500bytes.

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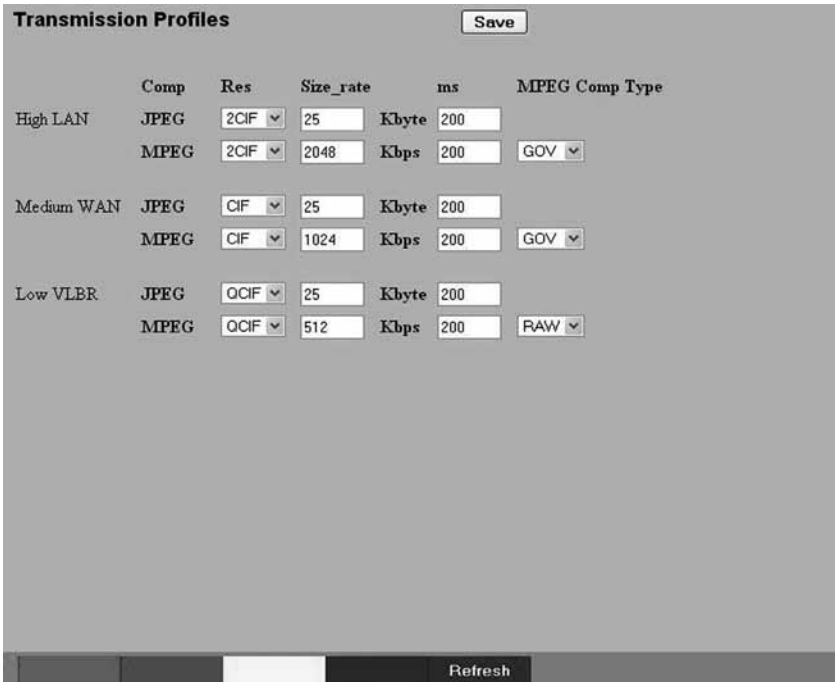
Live Transmissions

The unit transmits live images using JPEG or MPEG formats.
The NetVu Connected remote viewing software will use the settings configured on this page as the defaults for JPEG & MPEG; High, Medium and Low settings.



High LAN/Medium WAN/Low VLBR	This shows the transmission settings configured for a High quality LAN (Local Area Network) connection, Medium quality WAN (Wide Area Network) connection or a Low quality VLBR (Very Low Bit Rate connection).
Comp	Settings can be established for JPEG and MPEG compression.
Res	For MPEG and JPEG transmission, select image resolution settings (4CIF, 2CIF, CIF or QCIF).
Size_rate	For JPEG, the figure entered will be the size of the JPEG transmitted (in Kbytes). For MPEG4 the figure will be the bit rate allocated. A higher rate will provide better quality picture display. JPEG file sizes can be configured in the range of 5-45Kbytes and MPEG bit rates in the range of 45-2500Kbits/second.
ms	This shows the number of pictures transmitted per millisecond. For JPEG, the actual images transmitted will depend on the bandwith of the link, increasing the pictures sent per millisecond may introduce time lag if bandwith is not sufficient. On MPEG transmission, increasing the pictures sent will also reduce the quality of the images (as more images are transmitted for the defined bit rate).

MPEG Comp Type	Select whether transmitted MPEG4 images are sent as RAW data or in GOV (Group of Video) format. RAW mode transmits a single I frame and then a sequence of P frames (until a change in transmission is detected). GOV mode sends I and P frames in a standard format i.e. I to P frame ratio as set by the record parameters.

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E Mail

The unit can automatically transmit an e-mail to an SMTP Server under numerous conditions i.e. on start up, on receipt of an alarm, camera failure etc. This allows the unit to be installed in unmanned applications where a Remote Video Response Centre (or Manager etc.) would be notified by e-mail if any of these conditions occur.

Connection Profile	It is possible for the e-mail to be transmitted via the Ethernet network or dial up connection (PPP 'Point to Point Protocol'). This setting presumes that a modem has been connected or configured and the unit is connected to a LAN or WAN and allocated a valid IP address.
Mail Server Address	This is the IP address or URL of the SMTP Server that the e-mail will be sent to. The SMTP server will then forward this to the intended recipient.
Recipient Email	This is the e-mail address of the intended recipient.
Display Name (Recipient)	This is the addressee name that will be shown in the email name field.
Reply to Email	This field must be configured if the recipient is to reply to an e-mail. The unit does not accept incoming e-mails therefore ensure this is a valid e-mail address.
Display Name (Reply To)	This is the 'reply to' name that will be shown in the email name field.
Sender Email	These optional fields indicate the source of the e-mail notification. If the fields are left blank the unit will use the system name to create a sender name.

Display Name (Sender)	This is the sender name that will be shown in the email name field.
Send on Startup	Select to send email notification on startup.
Send on Alarms	Select to send email notification on alarm activation.
Send on Camera Fail	Select to send email notification on camera fail.
Send on Activity Event	Select to send email notification on activation of the Activity Detection feature.
Send Image	Select to send accompanying image from supporting primary camera.
Log Email	Select to log every e-mail transaction that the unit issues.
Email Image Res	Select resolution settings for images sent as 'thumbnail' attachments. Choose from: Thumbnail, LO (low res), MED (medium res) and HI (high res).

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Remote Reporting

This menu details the configuration requirements for the unit to report to a Remote Video Receiving Centre (RVRC) following alarm activation.

Note: *This menu will only be displayed if 'Remote Reporting' is selected in the System Settings->Features menu.*

Primary Hostname	This is the IP address or URL of the initial host that the unit will transmit an alarm message to.
Primary Dial Profile	It is possible for the alarm message to be transmitted via the Ethernet network or a dial up connection.
Secondary Hostname	If the unit is unable to contact the primary host, an alternative route can be identified via a secondary host. If there is only one alarm receiving IP address, you must enter the details in both the primary and secondary connection settings.
Secondary Dial Profile	It is possible to select a separate dial profile for the secondary host.
Public (NAT) IP Address	This is the public IP (or domain name) for a unit connected to the Internet via a NAT Router or Firewall. This field should be left blank if NAT is not used e.g. a private network.
Video Server Port	This field allows the RVRC to connect to the unit through a router that is using port forwarding e.g. if the video server does not appear on port 80 (HTTP), to the external network. Enter the port number used for fowarding here if required.
Alarm Server ref. ID	This is the reference name/ID that will be presented to the RVRC viewing application. It should therefore have some significance to the Operator.

Remote Alarm Reporting	This must be enabled for the unit to automatically connect on alarm.
Remote Cam Fail Reporting	Enabling this option ensures the unit reports camera failure on any of the inputs to the RVRC.
Remote Startup Reporting	This will send an alarm report when the unit starts up. Any system resets will be identified.
ARC Ping Enabled	Should the modem/router at the Alarm Receiving Centre be dormant, the unit will 'Ping' the ARC prior to sending reporting data.
Alarm Responder Port	This specifies the network port number used for reporting to the alarm server. In normal circumstances this should be left at the default value (23).
Dial Retry Time (secs)	If the initial connection attempt fails, the unit will wait for the specified time period (in seconds) before attempting to re-connect.
Dial Count	This identifies the number of times the unit will attempt to connect after a failed attempt. A setting of '0' means no limit and the unit will continue to try and connect until successful.

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Firewall

This menu allows the user to block access to the unit via specific network port(s).

Block Port	Enter the port number and select Block (Red).
Delete	To unblock and allow access via a specific port, select the Delete option next to the required port.

Analytics & Text

The Analytics and Text menus allow configuration of the unit's text in image and keywords functionality, refer to the individual menus for further details.

The FireVu is AnalyticsCapable. Please contact your D-Tec representative for further information on our range of Analytics based solutions.

The FireVu Parameter menu allows the Fire/Smoke detection software to operate at one of two detection settings (Set 1 and Set 2).

The Keyword page can be used in conjunction with the Text in Image function. Keywords can be entered, which when detected, will trigger an alarm. Up to 30 keywords can be created.

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Add New Feature / Feature Allocation

Please contact your D-Tec representative for information on adding new Analytics*Capable features.*

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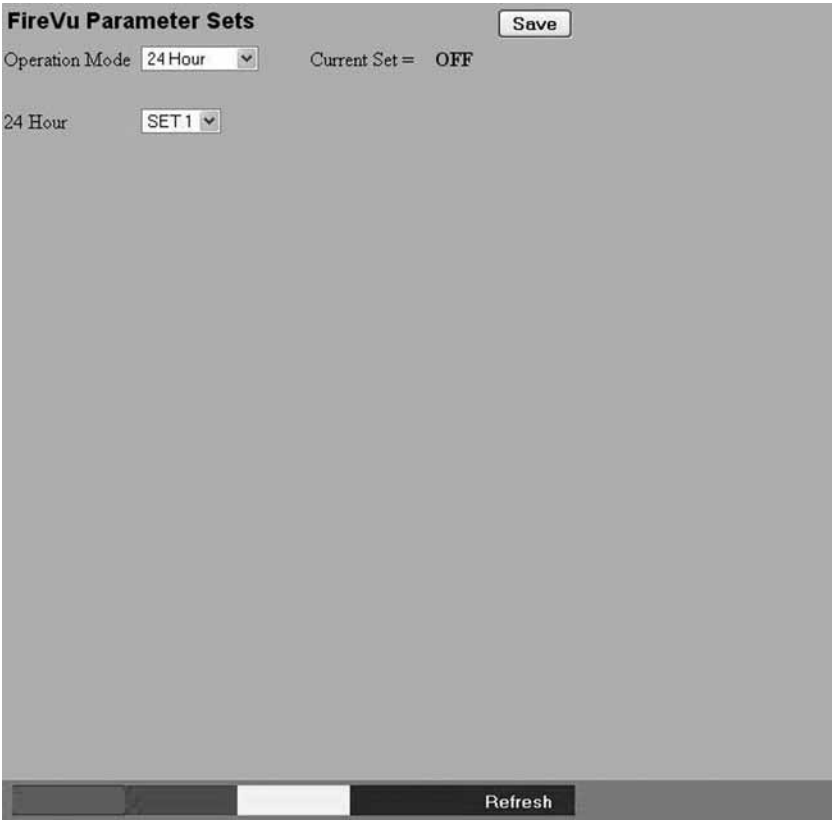
FireVu Params

The FireVu Parameter menu allows the Fire/Smoke detection software to operate at one of two detection settings (Set 1 and Set 2). The settings can operate constantly (24 hrs), be changed via an external alarm input (External I/P) or by a timed Schedule.

IMPORTANT: *The parameters assigned to 'Set1' and 'Set 2' are configured via the FireVu Dashboard Tool. Refer to the FireVu Dashboard Set-up and User Guide for further information.*

24 Hour

Selecting '24 Hour' operation mode will result in the fire/smoke detection software constantly operating at either SET 1 or SET 2.



Operating Mode	Select '24 hour' mode, 'External I/P' or 'Schedule' mode. Each mode will display a separate configuration menu.
Control Set =	Displays the current operating mode
24 Hour	Select either SET 1 or SET 2. The parameters assigned to 'Set1' and 'Set 2' are configured via the FireVu Dashboard Tool.

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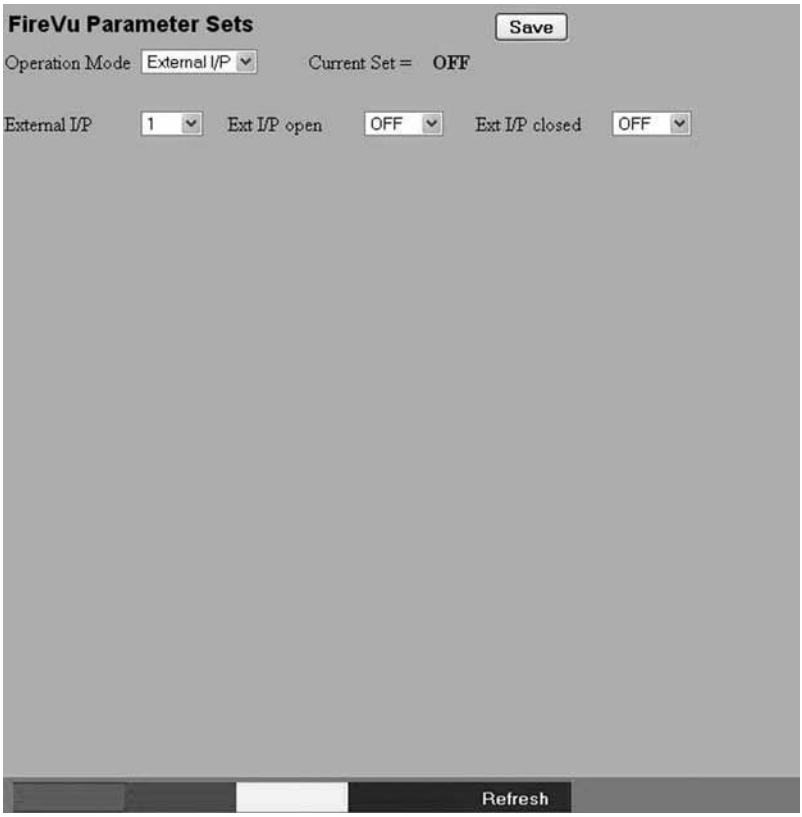
External I/P

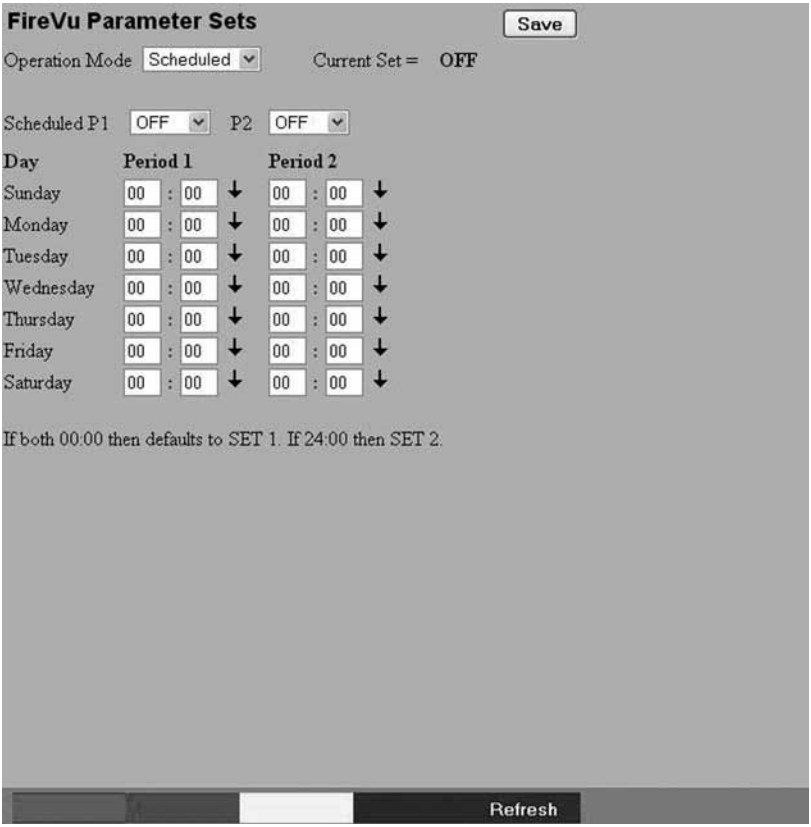
Selecting 'External I/P' operation mode will result in the Fire/Smoke detection software switching between SET 1 and SET 2 depending on the status of one of the 20 alarm inputs. The detection software can switch between Set configurations dependant on whether the selected alarm relay is Open or Closed.



Operating Mode	Select '24 hour' mode, 'External I/P' or 'Schedule' mode. Each mode will display a separate configuration menu.
Control Set =	Displays the current operating mode
External I/P	Select one of the 20 alarm inputs.
Ext I/P open	When the selected relay is open, choose whether the detection software is to be in SET 1 or SET 2 mode. The detection software can also be turned OFF if required.
Ext I/P closed	When the selected relay is closed, choose whether the detection software is to be in SET 1 or SET 2 mode. The detection software can also be turned OFF if required.

External I/P

Selecting 'Scheduled' operation mode will result in the Fire/Smoke detection software switching between SET 1 and SET 2 depending on specific days/times.



Operating Mode	Select '24 hour' mode, 'External I/P' or 'Schedule' mode. Each mode will display a separate configuration menu.
Control Set =	Displays the currently selected operating mode
Scheduled P1/P2	Assign either SET 1 or SET 2 to each of the two available time periods. The Fire/Smoke detection software can also be turned OFF for either period if desired.
Day	Enter a time for each day of the week and for both periods. The Fire/Smoke detection software will switch to the required SET mode at the desired time/day.

Note: The 24hr clock is used for all time inputs.

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Keyword

This menu allows specific keywords received via the text stream to be configured and enabled as event triggers. The 'Enable Keywords' function need to be activated in the 'Text in Image' menu for this feature to operate.

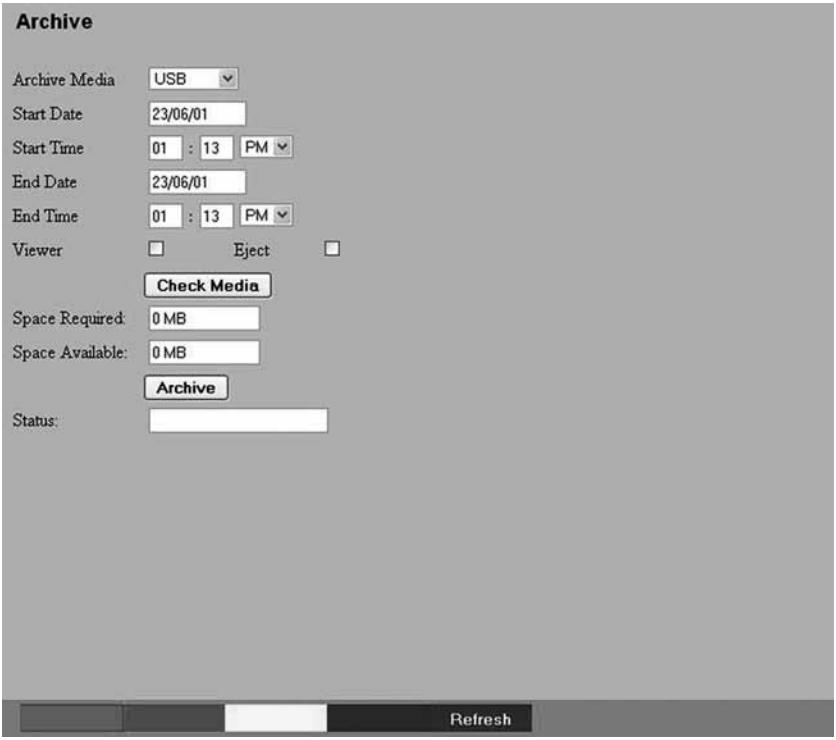
Text Keyword	The unit can be configured to react to defined keywords appearing in text data and treat them as alarm zone inputs. In turn this generates events in the event database. The advantage of this feature is that it allows the user to see exactly which keyword triggered an alarm. A total of 32 Keywords can be configured and each can be up to 20 characters in length. All of the keywords will be active on the selected Zone keyword channel, *refer to "Zone Input - Input"*.

Note: *Increasing the number of keywords can significantly increase the number of stored events.*

Note: *Refer to 'Text In Image' and 'Serial Ports' for further guidance on integrating text data.*

Archive

This menu allows Event database information to be downloaded to an inserted DVD/CD or connected USB media device.



Archive Media	Select to archive to either a DVD/CD or USB media device.
Start Date	Enter a start date for the event download.
Start Time	Enter a start time for the event download.
End Date	Enter an end date for the event download.
End Time	Enter an end time for the event download.
Viewer	When selected, the unit will add a Viewer program to the archive. It is recommended that this option be selected as it will ensure the downloaded video images can always be successfully viewed.
Eject	Select to eject the inserted DVD/CD upon completion of the archive process.
Check Media button	Selecting this option will display the space required (in megabytes) for the chosen event period to be fully downloaded. The space currently available on the CD/DVD or USB device is also shown.
Archive Space Required	Space required for archive download.
Archive Space Available	Space currently available on CD/DVD or USB device.
Archive button	Select this button to begin the Archive process.
Status	During Archiving, status messages will be displayed detailing the archive process.

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Operating the Viewer

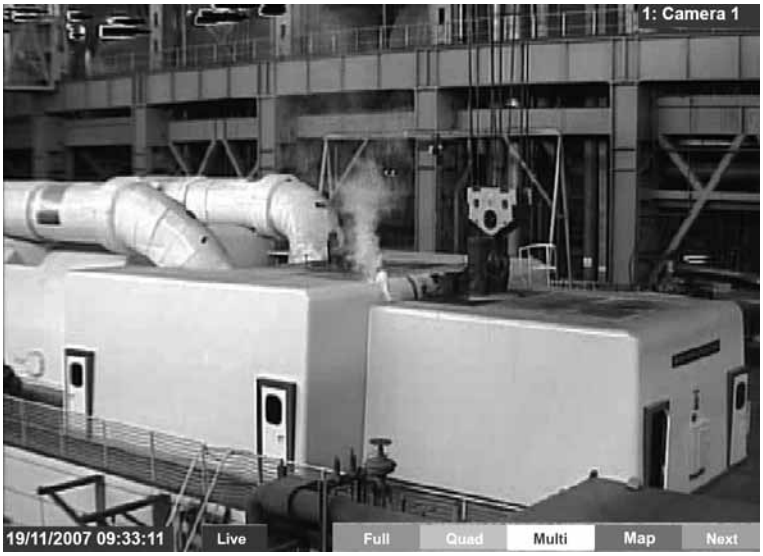
Navigation is via a colour coded softkey system. The coloured menu provides an intuitive approach to operator and installer use.

Note: *The screen images shown throughout this section are those displayed on a local monitor. If viewing remotely via the webpages, the menu layout will differ slightly.*

The function of the keys will change according to whether the unit is in Live or Playback mode.

Overleaf are described the available Viewer menu pages.

View Control



Red	Full	Show currently selected camera full screen.
Green	Quad	Displays four images on-screen, putting the currently selected camera in the top left segment of the four, and will increment all cameras by one if pressed again i.e. if cam 1 is shown top left, cam 2 top right etc. then the views will increment to cam 2 top left, cam 3 top right etc.

Note: *When a camera button is pressed to select a new camera, the new selection will be displayed in the top left hand corner of the display. The next three connected cameras will be displayed in the following three positions.*

Yellow	Multi	By default displays nine images on-screen, putting the currently selected camera in the top left segment, followed by the next eight cameras and will increment all cameras by one if pressed again i.e. if cam 1 is shown top left, cam 2 adjacent etc. then the views will increment to cam 2 top left, cam 3 adjacent etc.

Note: *For optimal performance, it is recommended that the multiscreen view be matched to the number of connected cameras i.e. if four cameras are connected, select 'Quad'. The default multiscreen display settings can be configured in the Configuration menus via Console Settings->Viewer Defaults->Default Multi Display.*

Blue	Map	Displays either the default camera selection map or a specific site map (if one has been configured) with 'hotspots' showing camera locations. A camera can be viewed by selecting the corresponding hotspot.
Purple	Next	Opens the next page of the Viewer menu.

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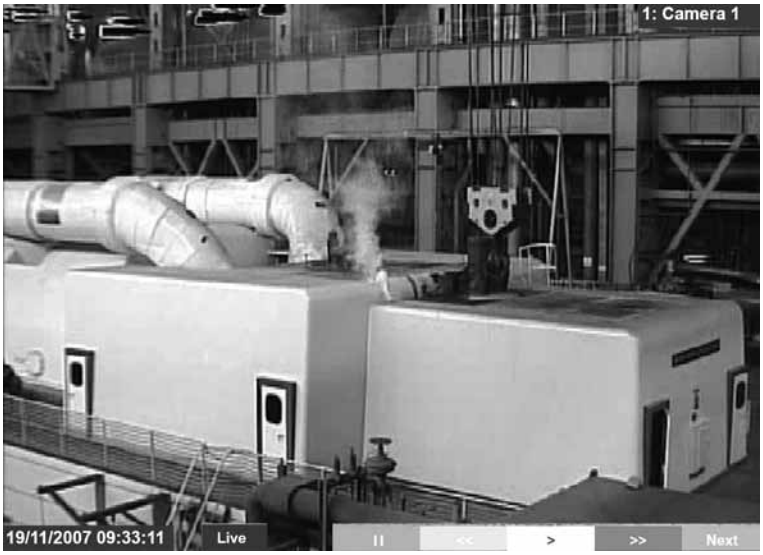
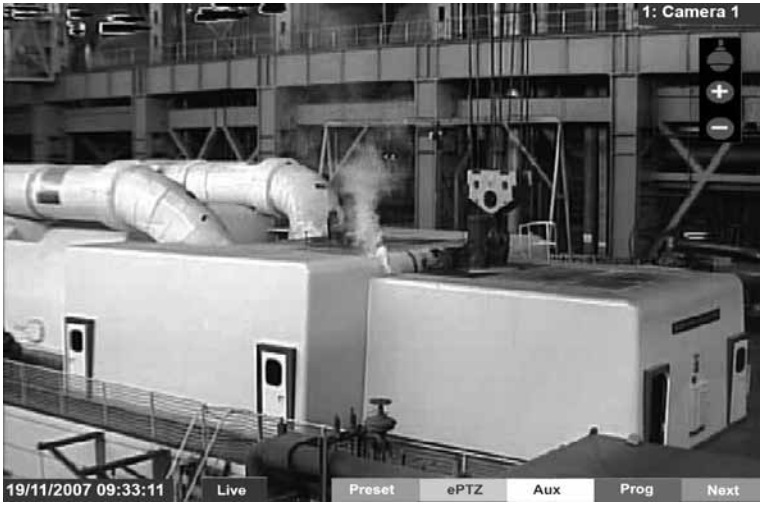
Video Control



Red	II	Freezes current video display.
Green	<<	Rewinds current video.
Yellow	>	Plays from current position.
Blue	>>	Fast forwards video up to current recording position.
Purple	Next	Opens the next page of the Viewer menu.

Telemetry Camera Options

The Telemetry camera page allows Oracle Dome cameras to be controlled directly via the Point&go feature and be sent to preset positions.
The eZoom feature allows navigation within the video image i.e. the image itself is being navigated and enlarged, the camera is not being controlled. This allows the operator to pan and zoom within the actual image. This feature is best utilised with high resolution cameras, giving the operator the ability to electronically zoom into an area. The unit will request a higher resolution image of the zoomed area to show increased detail.
The functionality available will depend on the type of camera being viewed. The unit will recognise which camera type is being accessed and display relevant symbols in the top right of the screen (when viewing via a local monitor only).



Red	Preset	If Preset positions have been established for the PTZ camera, select the Preset option followed by the relevant numeric button or via the number box displayed on-screen. Refer to the 'PTZ Profile menu' for further details on establishing preset positions.

Note: *Presets will not work in ePTZ mode.*

Green	PTZ/ePTZ	Switches between PTZ and ePTZ mode. In ePTZ mode, it is possible to zoom in/out of and scroll around the image (the camera itself is not being controlled). PTZ mode will control an Oracle Dome camera via the Point&go feature. Refer to the 'Point&go' section for further information.
Yellow	Aux	Activates the camera Auxiliary controls e.g. wash, wipe etc. Press the Aux button followed by the relevant numeric button or via the number box displayed on-screen.
Blue	Prog	Opens the Preset programming menu. Refer to 'PTZ Profile' menu.
Purple	Next	Opens the next page of the Viewer menu.

Note: *The above menu options will only be available when viewing a PTZ camera in Live mode.*

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Point&go
Point&go enables an Oracle Dome camera to be controlled directly via the mouse. Click anywhere on the displayed image and the Oracle dome camera will centre on that point i.e. to pan the camera to the right, click on the right hand side of the displayed image. The Oracle dome will pan and set the clicked point as the centre of the new image.

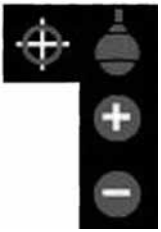
Note: *To use Point&go, PTZ mode must be selected (if available).*

Telemetry Command Options

Telemetry commands can be activated directly via the Telemetry Command symbols. To access the modes and options featured below, roll the USB mouse over the camera symbols displayed in the upper right of the screen. The modes available will depend on the camera type being accessed.

Note: *The symbols shown below will only be displayed if viewing via a local monitor and not the webpages*

Symbol	Mode/Camera Type	Options Available
	Fixed Camera eZoom	Use this option to zoom into areas of the image. The camera itself is not being directly controlled. Use the mouse to select a point on the image. Use the + and - symbols illustrated below to zoom in / out.
	ePTZ mode	Use this option to zoom into areas of the image. The camera itself is not being directly controlled. Use the cursor to select a point on the image. Use the + and - symbols illustrated below to zoom in / out.
	Zoom IN / OUT	When displayed, use these buttons to zoom in / out of the image.
	PTZ Mode	Use this option to directly control an Oracle dome camera via the Point&go feature. Rolling the mouse over the icon will display more Telemetry command options (detailed below). To cycle through these options, click on the currently displayed symbol i.e. click on the Zoom symbol to display the Iris option.
	PTZ Zoom	When displayed, use the + and - symbols to utilise the camera's Zoom function.



PTZ Focus — When displayed, use the + and - symbols to utilise the camera's Focus function.

PTZ Iris — When displayed, use the + and - symbols to utilise the camera's Iris function.

Auxiliary Commands

Aux — Selecting the Aux option (by clicking on the Aux symbol) will display additional auxiliary command options.

Aux Wash — Select this option to send the Wash command to the camera (if applicable for the selected camera).

Aux Wipe — Select this option to send the Wipe command to the camera (if applicable for the selected camera).

Aux Lights — Select this option to send the Lights command to the camera (if applicable for the selected camera).

Aux Keypad — Select this option to send additional Auxiliary commands to the camera i.e. if the selected camera has an Auto-Pan function assigned to Auxiliary command 4, click on the Aux keypad, an interactive keypad will then be shown in the lower left of the screen, click on '4'.

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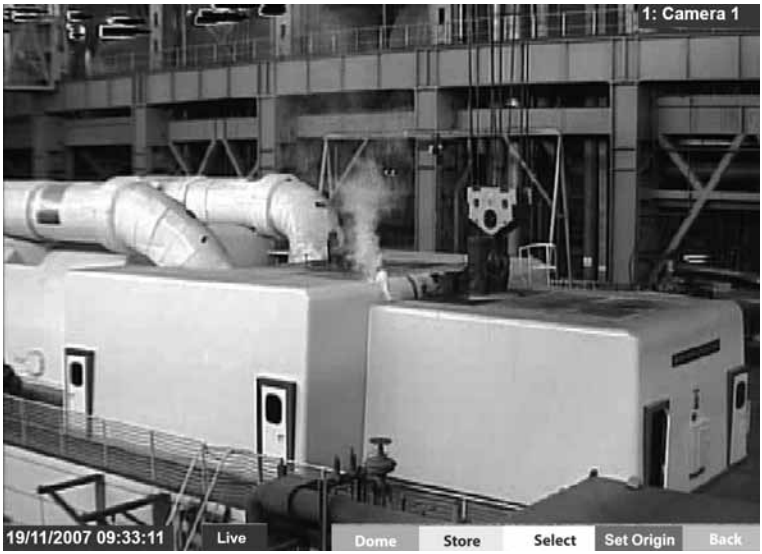
PTZ Program Option

The Program page allows preset settings for PTZ cameras to be established and an 'Origin' base position established for a camera.

Note: *This page will not be available for all cameras.*



Red	Dome	Select to display the Dome Menu page.
Green	Store	Use to save the current view as a Preset for this camera. To re-send the camera to this position, select the camera, then press Next -> Preset -> (preset number).

Note: *When entering a new preset, any previous preset assigned to that number (for the same camera) will be overwritten.*

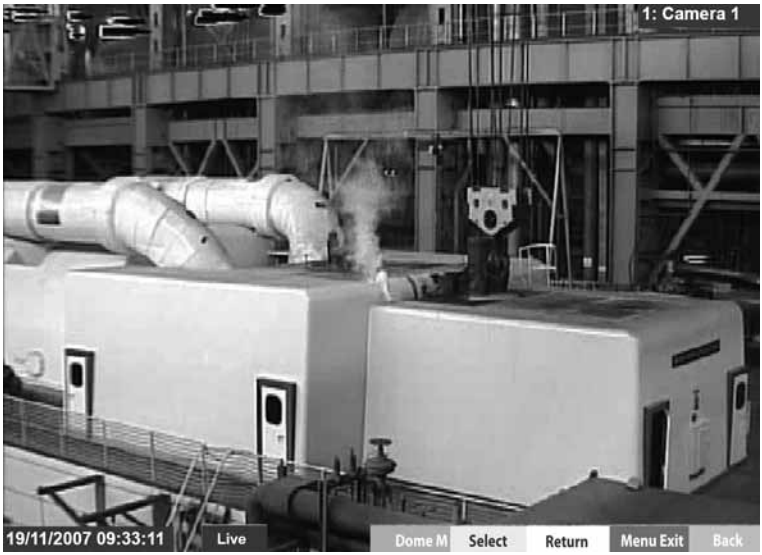
Yellow	Select	This option will send the camera to the stored 'Preset1' position.
Blue	Set Origin	The Origin option allows a base position to be established for the Oracle dome camera. The camera will register this position as zero degrees. Any command that sends the camera to a coordinate will use this origin as its starting point, *refer to 'Console Settings->Map Config ->Hotspot Origin' for more information.*

Note: *This option is only available for Oracle dome cameras.*

Purple	Back	Return to the previous page of the Viewer menu.

Dome Menu Option

The Dome Menu page allows camera specific menus imbedded on the currently viewed Telemetry camera to be accessed and configured (if such menus are available).



Red	Dome Menu	Select to view camera specific sub-menus embedded on the Telemetry camera (if applicable). The camera specific menus will be overlayed across the screen.
Green	Select	This option enables sub-menu content selection (dependent on the protocol selected). Please refer to the specific camera documentation for further guidance.
Yellow	Return	This option enables sub-menus to be exited (dependent on the protocol selected). Please refer to the specific camera documentation for further guidance.
Blue	Menu Exit	This option will fully exit any embedded camera sub-menus currently being viewed.
Purple	Back	Return to the previous page of the Viewer menu.

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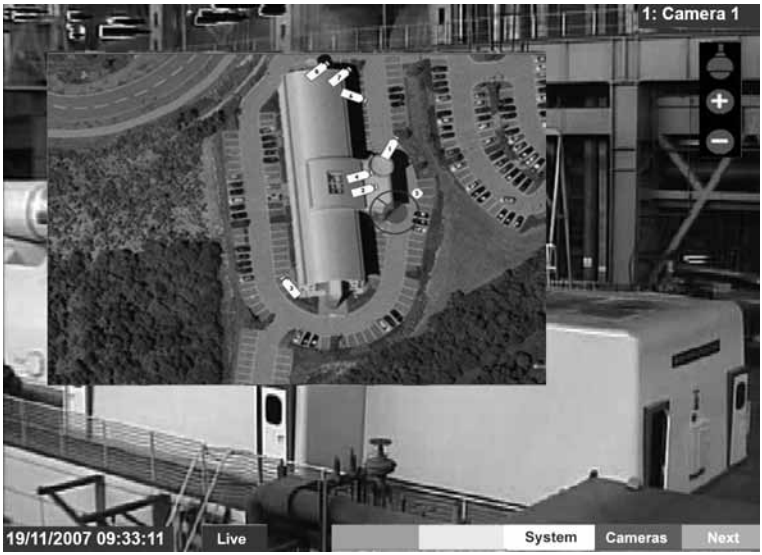
Map Options

The Map page allows access to available Cameras via the displayed hotspots.

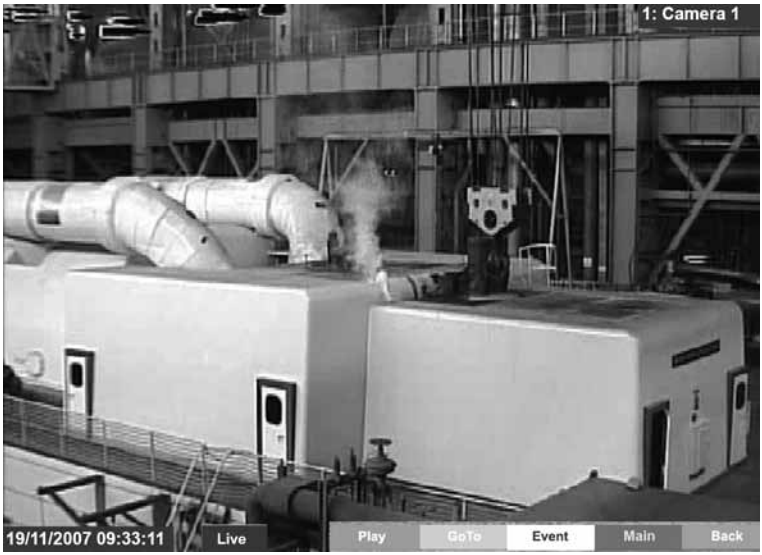


Blue	Cameras	Displays a map showing available cameras. If using the default numeric selector, choose a number to access the correspondingly numbered camera. The default numeric selector map can be replaced by a gif/jpeg image. The image can include 'hotspots' which link to available cameras. Cameras are then selected via the hotspots. Refer to 'Console-Map Config' for further details on creating Camera Maps.

Note: *For information on creating Camera Selection maps, refer to the 'Console->Map Config' section for further information.*

Selection Page

The Selection page allows access to various image and event playback functions.



Red	Play	Switches the selected camera(s) shown onscreen into Play mode.
Green	Goto	Opens the Video Timeline menu.
Yellow	Event	Displays the Events menu.
Blue	Setup	Opens the Configuration menu pages.

IMPORTANT: *Select this option to exit the Viewer menus. This will be logged in the User Activity Log as the current user terminating the session. Refer to the appendices for further information regarding the User Activity Log.*

Purple	Back	Returns to the previous page of the Viewer menu.

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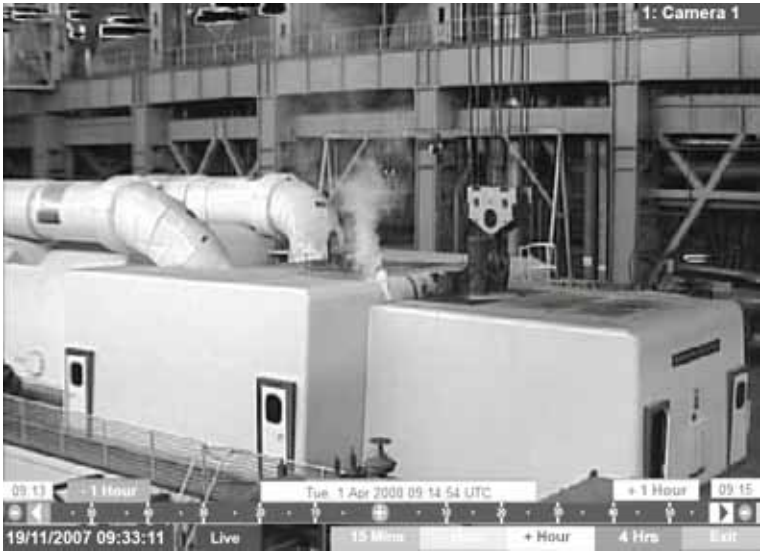
Timeline Navigation

The Timeline Navigation page and the accompanying Video Timeline feature allows quick and easy investigation of recorded video data. The Goto button opens the initial Timeline Navigation page.



Softkeys

The coloured softkey options will change depending on the scale used to review the recorded images. In the above example:

- Selecting the 15 Mins (Red) button will change the softkey options to 15 minute segments i.e. the user can progress 15 mins from/prior the current playback time.
- Selecting the -Hour button (Green) will progress the video to a point exactly one hour prior to the time shown in the date/time display.
- Selecting the +Hour button (Yellow) will progress the video to a point exactly one hour in advance of the time shown in the date/time display.
- Selecting the 4Hrs (Blue) button will change the softkey options to four hour segments i.e. the user can progress four hours from/prior the current playback time.
- Selecting the Exit (Purple) button will always exit the Timeline Navigation menu.

Note: *Depending on the scale used to review the video i.e. Seconds, Minutes, Hours, or Days; the above softkey options will differ, however the same intuitive principles remain.*

Video Timeline

The Video Timeline allows intuitive, rapid navigation within recorded video. To aid navigation, the timeline can be set to display periods ranging from 15 seconds to four weeks. The timeline can be clicked anywhere in the scale to instantly play recorded images from that point.

Date/Time Display (Grey) — Shows the currently selected date/time.

Note: *The Date/Time Display shows the last time selected via the timeline. During playback, the Date/Time Display remains static while the 'running' time is shown in the bottom left corner of the playback image.*

Timeline

The timeline allows navigation from the time and date currently shown in the Date/Time Display window. The scale changes to correspond to the time period chosen for investigation i.e. if a scale of one hour is selected it will be possible to move up to one hour prior, or one hour in advance of the displayed time (unless that selected time has not been recorded yet). For example, with a scale of one hour, click '10' on the left side of the timeline to play video from 10 minutes prior to the Date/Time Display. To advance in time, click on the right side of the timeline.

Time Scale Options

- 15 seconds
- 1 minute
- 15 minutes
- 1 hour
- 4 hours
- 1 day
- 1 week
- 4 week

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Change Scale

Utilise the buttons shown below to change the scale.

Note: *The coloured softkey buttons can also be used to alter the scale, refer to "Softkey Guidance" for further details).*

Decrease Scale button (Red)

Decreases the scale of the displayed timeline by one step i.e. if the scale is currently one hour, selecting this button will reduce it to 15 minutes, selecting it again will reduce it to one minute etc.

Increase Scale button (Blue)

Increases the scale of the timeline by one step i.e. if the scale is currently one hour, selecting this button will increase it to four hours, selecting it again will increase it to one day etc.

Left Navigation Arrow (Green)

Selecting the left navigation arrow will play recorded images from the maximum prior time available via the current timeline i.e. if a one hour time scale is displayed, selecting the Left Navigation Arrow will play video from one hour prior. This can also be selected via the Green softkey button.

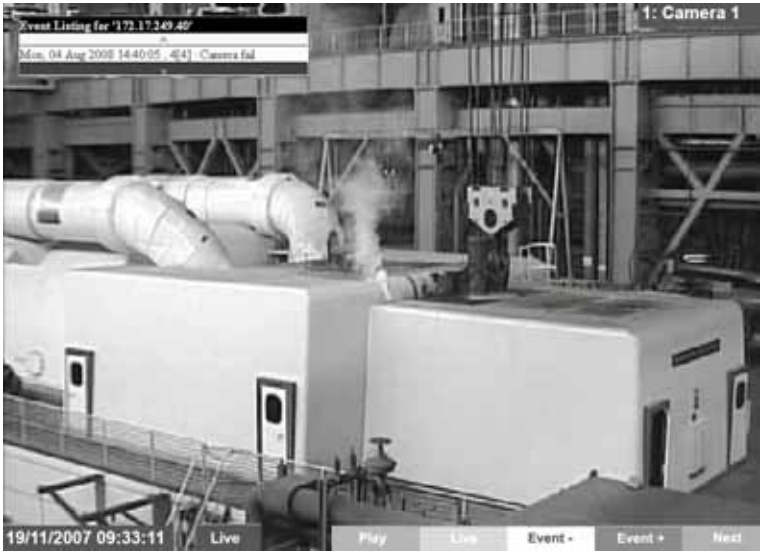
Right Navigation Arrow (Yellow)

Selecting the right navigation arrow will play recorded images from the maximum future time available via the current timeline i.e. if a one hour time scale is displayed, selecting the Right Navigation Arrow will play video from one hour in advance. This can also be selected via the Yellow softkey button.

Event Page

The Event feature allows quick and easy navigation of recorded events data. The Event button opens the initial Event page which shows the last twenty events.
If the Event pages are called in a quad or multiscreen view, the image in the upper left corner of the page will be accessed. This image will then be displayed full screen.

The Event list is shown as a box in the upper left corner of the video image. Events can be selected and viewed from this box using the mouse. Use the Yellow softkey button to display the previous event or the Blue softkey button to display the next event. To display the list of all available events, highlight and select the current event.



The screen displays the date and time for the event shown in the dialog box. A maximum of twenty events can be stored from connected devices. Use the Yellow and Green navigation buttons to move through the saved events.

Red	Play	Plays the event and displays the Video Controls toolbar.
Green	Live	Returns to Live video from the currently selected camera.
Yellow	Event-	Opens the previous event.
Blue	Event+	Opens the next event.
Purple	Next	Opens the Play menu for the currently displayed event.

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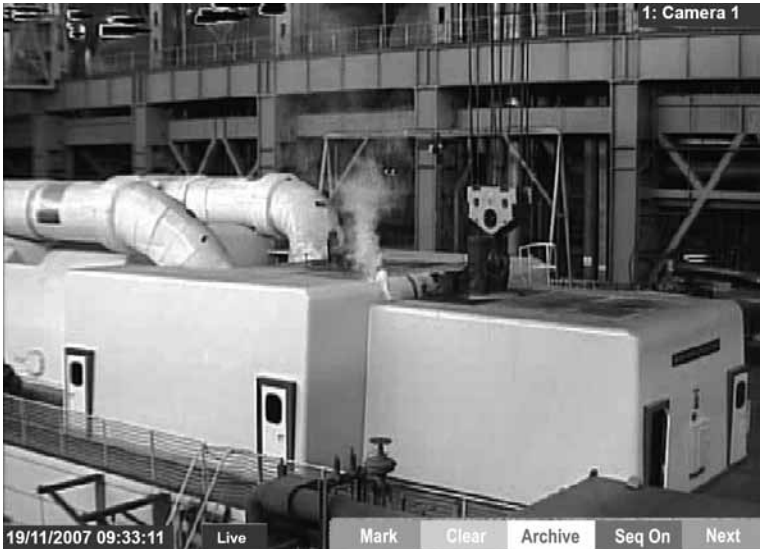
Archive Selection Page

Images and events can be marked and added to the Copy Event List. The Viewer menu can also be set to 'sequence' through connected cameras and display images in sequential order.

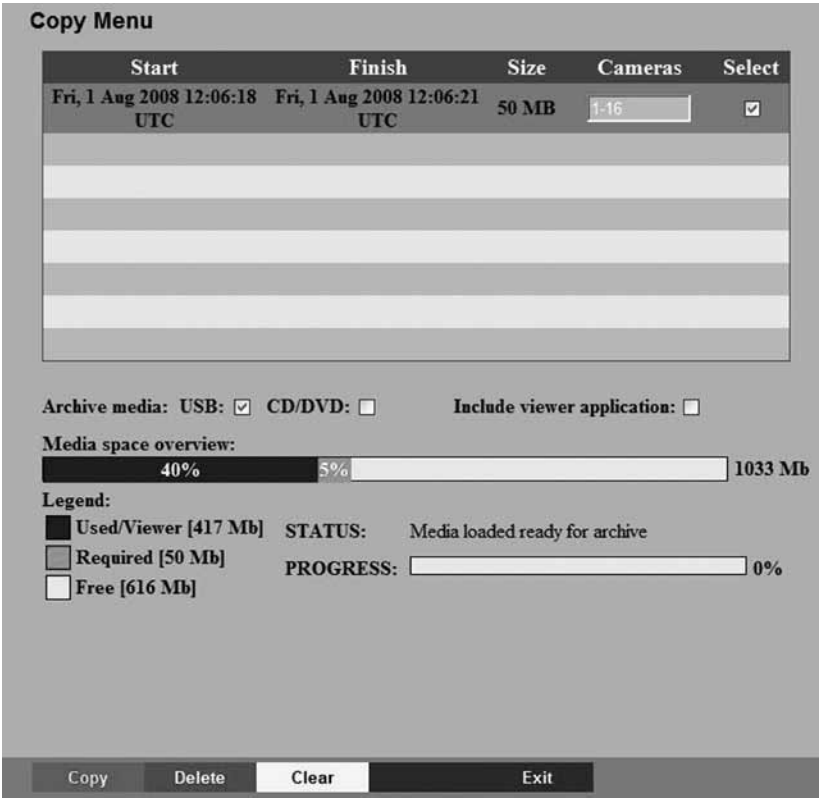


Copy Event List			
1:	1 Aug 2008 10:10:22	->	1 Aug 2008 10:14:57
2:	---	->	---
3:	---	->	---
4:	---	->	---
5:	---	->	---
6:	---	->	---
7:	---	->	---
8:	---	->	---

Red	Mark	In Playback mode, select 'Mark' to establish a start point for archiving purpose. The Copy Event List box will be displayed (see above) detailing the start date and time of the archive. Select 'Mark' again to establish an end time for the archive. A maximum of eight copy periods can be added to the Copy Event List.
Green	Clear	In Playback mode, select Clear to remove the last start or end mark added to the Copy Event List.
Yellow	Archive	Opens the Copy Menu.
Blue	Seq On/Off	Select 'Seq On' to display images from all connected cameras in a sequential order.
Purple	Next	Opens the Play menu for the currently displayed camera.

Copy Menu

Images and events can be copied to CD/DVD or USB Media for remote reviewing away from the unit (for evidential or monitoring purposes). The Copy Menu can be accessed via the 'Archive' (Yellow) button on the Archive Selection page.



The Copy menu will display the Archive periods added to the Copy Event List. The Start and Finish date/times will be shown along with the estimated size of the download. Individual cameras can be added in the format 1,3,5 etc; or a range of cameras can be entered i.e.1-16. To add a chosen event to the download, tick the Select checkbox.

Archive Media	Select the media device (USB or CD/DVD) for archive purposes.
Include Viewer Application	Select whether the application required to view archived data is included in the download.
Used (Blue)	Displays the space (as a percentage) already used on the chosen media device.
Required (Green)	Displays the space (as a percentage) required to download the selected archive(s).
Free (White)	Displays the space (as a percentage) that will remain following the download.
Status	Displays messages relevant to the archive process i.e. 'Archive In Progress'.
Progress	Displays the progress of the current archive (as a percentage of completion).

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To Copy Events/Images to a USB Device

1. Insert a USB Device into the USB port on the front of the unit.
2. Select USB from the Archive Media checkbox.
3. Select the Copy option (Red) to start archive.
4. Selected items are then saved to the USB device.
5. The USB export progress is displayed as a %. On completion the status will read ‘Archive Complete’.

To Copy Events/Images to a CD/DVD

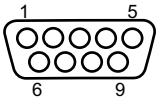
1. Insert a CD/DVD Device into the CD/DVD drive on the front of the unit.
2. Select CD/DVD from the Archive Media checkbox.
3. Select the Copy option (Red) to start archive.
4. Selected items are then saved to the CD/DVD.
5. The CD/DVD export status is displayed as a %. On completion the status will read ‘Archive Complete’.

Appendix A

Alarm & Relay Pin Outs

Using Serial Ports

It is possible to connect a variety of telemetry cameras to the unit, use the following table as a guide to the serial port connections.



RS485 Connectivity (2 wire) (Serial 3, 4)

Pin	Description
1	RS485 + (A)
9	RS485 - (B)
5	Shield (GND)

RS232 Connectivity (Serial 1, 2)

Pin	Description	Desc
1	Data Carrier Detect	DCD
2	Receive Data	RX
3	Transmit Data	TX
4	Data Terminal Ready	DTR
5	Ground	GND
6	Data Set Ready	DSR
7	Ready to Send	RTS
8	Clear to Send	CTS
9	Ring Indicate	RI

RS232 Connectivity (Serial 3, 4)

Pin	Description	Desc
2	Receive Data	RX
3	Transmit Data	TX
5	Ground	GND
7	Ready to Send	RTS
8	Clear to Send	CTS

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Appendix B

User Activity Logging

User Activity logging can be enabled or disabled via the System Setting->Features menu. When this feature is enabled, the unit will record all actions performed via the user interface. These actions include Viewing the live stream, activating telemetry, altering the unit configuration, viewing recorded video, archiving video and any system events such as restarting the unit.

Data recorded will include the user name, login time and date, what action was performed, which channels were viewed and which telemetry instructions were issued.

The log files will be retained on the unit for as long as any related video files are kept. One log file will be created daily as a text file and will be named automatically (using the date of creation), and stored in the logs directory on the unit. This can then be downloaded via ftp if required.

Action	Stored Data
User Login	Username, Local or Remote, Login
Local Archive	Username, Local or Remote control, Media
Remote Raw Archive 1	http Username, Submission requesting archive time
Remote Selective Archive	http Username, Submission requesting archive time
Remote Raw Archive 2	FTP Username, List of downloaded files
Telemetry	IP address of user, Local or Remote, Channel Controlled, Command sent
Configuration	Username, Local or remote, Menus changed, Items changed
Playback	Username, Remote, Channel viewed, From time
Live	Username, Remote, Channel viewed
System Events	Username, Event Info

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Appendix C

For guidance on locating the unit's IP address via a serial port connection, please see below:

Locating the unit IP address using the serial port

1. With the mains power off, connect a standard 9DF-9DF RS232 communications cable from the PC to one of the serial port connections on the rear of the unit.
2. On the PC, click Start->Programs->Accessories->Communications->Hyperterminal and create a new connection via the COM port using these settings.

Bits per second	115200
Data Bits	8
Parity	None
Stop bits	1
Flow Control	None

3. Power the unit, the Power LED on the unit will illuminate.
4. Hyperterminal will display the communications information as the unit boots up. This will include the IP address, Subnet and Gateway.

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Appendix D

Unit Specification

LANGUAGES

Currently: English. For Future Development: French, Italian, German & Spanish.

CAMERAS

8, 16 and 32 camera inputs available. Auto detection on power up. Looping BNC connectors are provided for each camera input on all input variants.

Option to view Live or Replay all or selected cameras without affecting recording.

MONITOR VIEWING

Main monitor:

Full screen, picture in picture, quad viewing and multiscreen.

Mon A: HDMI.

Spot monitor:

Full screen, sequence.

Mon B: Composite video BNC connector.

ACTIVITY DETECTION

Each activity detection will switch the selected camera from normal record profile to alarm record profile. This feature can also; log the event, activate a relay, trigger a sounder, switch camera or link to an alarm.

Individual configurable alarm responses include; move camera to preset, activate a relay, remote alarm reporting, email on alarm, log event, switch camera, activate sounder.

ALARMS & RELAYS

20 normally open/closed tamper proof alarm inputs via back panel.

Keyswitch input to select set/unset.

4 Global Relay outputs.

22 Smoke detection Relay outputs

SEARCH AND PLAYBACK

- Frame advance/rewind, fast picture search and pause keys.
- Event list, including event list filter with unique quadrant preview facility.
- Video Timeline.
- Playback in quad, multiscreen, picture in picture and full screen.

MULTIMODE RECORDING

MultiMode recording gives you the ability to set different record rates, resolutions and compression algorithms (MPEG-4/JPEG) across scheduled, normal and alarm modes dynamically on individual cameras.

RECORDING FROM

Playback and record to hard disk simultaneously.

Alarmed or manually selected images can be protected from being overwritten.

Timed expiry option allows images to be held for a selected number of days.

EVENT COPYING

Event sequences and user defined recorded sequences can be saved to a CD or DVD via the integrated CD-writer / DVD-writer or to an external flash drive through the USB port.

TEXT SUPPORT

Through the inclusion of Text Support, the FireVu can search captured transaction data for specific goods purchased, transaction numbers, credit card references, keywords etc. and jump straight to the associated video sequence. Till interfaces are available for a wide range of till systems.

NETWORKING CAPABILITIES

A standard Ethernet connection allows live and recorded viewing on a networked PC using DM's NetVu ObserVer software. Webpages are available for configuration and live viewing using a standard internet browser.

TELEMETRY

Built-in RS485/Twisted pair protocols provide direct control of the numerous domes including but not limited to the following:

Coax

- BBV
- BBV RX100
- Pelco Spectra

Serial

- D-Tec Oracle Dome
- AD Matrix/AD 168-Matrix
- BBV RE485 StarCard
- Bosch/Philips G3
- Dennard/Dennard C
- Ernitec
- JVC TK-C675BE, TK-C676 & TK-C553E
- MarkMercer
- Panasonic WV-CS600/WV-CS850
- Pelco C
- Philips/Philips 232
- Samsung SCC-641
- Sensormatic SpeedDome IV & SpeedDome V
- Ultrak Ultradome KD6
- Vista Power Dome

COLOUR RESOLUTION

Sampling rate: 13.5 MHz to CCIR 601.

Number of pixels: PAL 704h x 256v 288.

NTSC 704h x 240v.

16.8 million colours 256 levels of grey, 8-bit luma.

COMPRESSION

JPEG & MPEG-4 format files.

4CIF, 2CIF, CIF & QCIF resolution.

User definable file size and bit rate.

DATA

Serial Ports: 4 - 2 xRS232 (9 wire) or (3 wire), 2 x RS232 (3 wire), RS485.

Ethernet: 1x Ethernet RJ-45 10/100 Ethernet connection / 1x Ethernet RJ-45 10/100/1000 Ethernet connection.

USB: 3 x USB 2.0 Connector (1 positioned on the front panel).

TEMPERATURE RANGE

5 - 40°C

RELATIVE HUMIDITY

10% - 85% NON-CONDENSING.

UNIT DIMENSIONS

447mm deep, 440mm wide, 89mm high.

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FireVu
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MI-I-FVU2/E1-0