Dedicated Micros PTZ Dome

Oracle dome

Installation and Configuration Manual

Oracle

DEDICATED MICROS

Contents

Software Version *N/A*
WebPage Version *wp8 1.0 (6141) ns PAL*

Introduction

The Oracle Dome from Dedicated Micros provides unrivalled integration with the latest generation of DV-IP DVRs.

This incredible integration capability is matched by the wide range of models available. With indoor, outdoor, analogue and IP mode, the Oracle Series gives total flexibility with Day/Night and Colour only domes offering optical zoom capabilities of up to 36x. Compatible with existing Dedicated Micros 2060/2040 brackets and accessories, the Oracle Series can easily fit into existing installations with minimal installation required.

The Oracle Series greatly enhances the users experience by enabling powerful features such as the revolutionary Point&Go capability. Point&Go provides the operator with easy to use, on-screen telemetry control. Users are able to have Pan & Tilt control of an attached DM Oracle Dome simply by clicking an area of the screen - the camera will instantly respond, centrally positioning the selected area..

The unit has a comprehensive set of features as standard, which can be tailored for individual preferences. These can be accessed through a local set of web page menus, or directly from the NetVu Connected server's web pages.

Part Numbers

External Models

Oracle Ext PTZ 18x D/N 24V PAL	DM/OD/EHY18L
Oracle Ext PTZ 28x D/N 24V PAL	DM/OD/EHY28L
Oracle Ext PTZ 36x D/N 24V PAL	DM/OD/EHY36L
Oracle Ext PTZ 18x D/N 24V NTSC	DM/OD/EHY18L/N
Oracle Ext PTZ 28x D/N 24V NTSC	DM/OD/EHY28L/N
Oracle Ext PTZ 36x D/N 24V NTSC	DM/OD/EHY36L/N

Internal Models

Oracle Int PTZ 18x POE/24V PAL	DM/OD/IHY18B
Oracle Int PTZ 18x POE/24V NTSC	DM/OD/IHY18B/N

point&go

Point&go provides the user with easy to use, fast, accurate telemetry control via an attached monitor. With no need for a telemetry keyboard, users are able to use Pan & Tilt control of a Dedicated Micros Oracle Dome simply by clicking an area of the monitor. The camera will instantly respond, positioning the selected area in the middle of the screen, ideal for tracking movement through a scene.

ePTZ

Dedicated Micros ePTZ uses an advanced image 'interpolation' algorithm that reveals detailed information that simple pixel-stretching digital zoom commands cannot. Users can operate ePTZ as they would Analogue Zoom - moving around the scene and zooming in/out using the IR Remote Control or a supported Keyboard - even on static analogue cameras. Electronic Zoom can be carried out on both live and playback video. Providing the ability to retrospectively control and view an image, a great aid in post-event analysis.

Absolute Positioning

Using Camera Selection Maps and the unique Absolute Positioning capability of Dedicated Micros Oracle Dome cameras, an operator can, with one mouse click, select a camera and send it to view an area of the site (Pan and tilt). Absolute Positioning is ideal for following someone from camera to camera around a site and greatly increases event response time, particularly for operators unfamiliar with a site layout and camera location.

Important Safeguards

Read Instructions
All the safety and operating instructions should be read before the unit is operated and adhered to during operation. These instructions should be retained with the unit, and all warnings and cautions contained should be heeded.

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

Power over Ethernet
Products in this range support PoE (Bridge and end-span compatible).

Servicing and Repair

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 and repair to qualified service personnel.

Equipment
Use only attachments/accessories specified by the manufacturer.

Ventilation
Ensure unit is properly ventilated to protect from overheating.

Camera Care

In order to avoid damaging your camera, note the following points:

CAUTION

- Do not touch the image surface of the sensor. If the sensor is accidentally touched, only clean it using isopropanol.
- Do not expose the camera sensor to very bright light over a long period of time as this may cause damage to the sensor. The camera and lens set-up must be correct to avoid possible damage due to long term exposure to bright light. A lens with an automatic iris is recommended under these conditions.

CE NOTICE (EUROPEAN UNION)

This section contains the regulatory declarations for the EU for the Unit Camera.

CE

This product is marked with the CE symbol and indicates compliance with all applicable Directives. A "Declaration of Conformity" is held at Dedicated Micros Ltd, 1200 Daresbury Park, Daresbury, Cheshire WA4 4HS www.dedicatedmicros.com

Hereby, Dedicated Micros LTD, declares that this Unit Camera is in compliance with the essential requirements and other relevant provisions of Directive 95/5/EC.

Marking by the symbol CE indicates compliance of this Dedicated Micros product to the Electromagnetic Compatibility Directive 89/336/EEC, and the Low Voltage Directive 73/23/EEC of the European Union. Such marking is indicative that this system meets the following technical standards

- EN 61000-6-3 EMC Standard Residential, Commercial and Light Industry.

- EN 62000-3-3 Limitations of voltage changes, fluctuations and flicker in public low-voltage supply systems for equipment with rated current up to 16A.
- EN 61000-3-2 Limits for harmonic current emissions for equipment with rated current up to 16A.
- EN 50130-4 Immunity requirements for components of fire, intruder and social alarm systems.
- EN 60950 Safety of IT and similar equipment.
- EN 55022 Class A. Radiated Emissions Standard, suitable for Commercial or Residential use

Further details about these applicable standards can be obtained from Dedicated Micros Ltd., 1200 Daresbury Park, Daresbury, Cheshire WA4 4HS.

RF Interference warning

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

Product Safety

WARNING

- Installation and servicing is only to be carried out by suitably qualified and experienced personnel and should conform to all local codes.
- Power option - POE, refer to 'Introduction' for model information.

This camera range is designed for use in general purpose CCTV applications and has no other purpose.

Only operate your camera between the temperatures of -30°C and +40°C. External variants of this camera must be powered by a 24V AC or DC power supply, internal variants can use PoE or 24V AC or DC power supply. Do not operate your camera outside its specified power supply range.

FCC CLASS B REGULATORY NOTICE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a different circuit different to the receiver.

Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

Installation

Components supplied

Before installing the dome, please remove the components from the packaging and verify that all items listed below have been supplied:

1 x Dedicated Micros Oracle Dome enclosure and camera (with incorporated safety bond)

1 x Dedicated Micros IP Products Documentation CD (including Oracle Dome Manual)

1 x 5mm A/F Hex wrench

Note: *The PSU must be a UL2044 approved Class 2 current limited 24V AC or DC Power Supply with a maximum current of 1.5 amps and the wiring as specified in the National Electrical Code ANSI/ NFPA 70. Dedicated Micros manufacture a suitable PSU (part Number - DM/OD/PSU).*

Note: *Mounting brackets may have been ordered and delivered separately.*

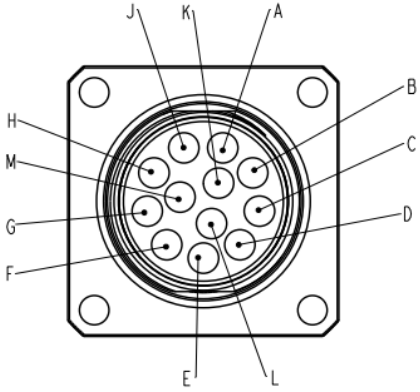
Important: *The Advanced Programming and Control features on the Oracle IP Dome are only available when used with the latest Dedicated Micros DVRs. These include SD Advanced, DV-IP Server, DV-IP HD, DV-IP RT and HighVu Excel. Standard functionality will still be available with other control equipment.*

Electrical Connections - External

Multiway Connector

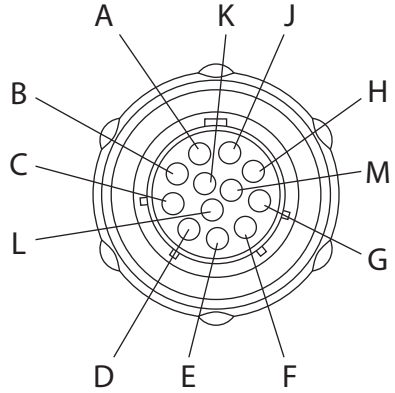
The dome receives power and data, and sends video and data via the multiway connector. This can be fed into the optional alarm box which provides IP or coax connectivity, or into the simple junction box to allow connection from standard cables to the dome cabling.

External Dome connector



Note: *Viewed from above the dome, looking at the connector*

Cable Connector



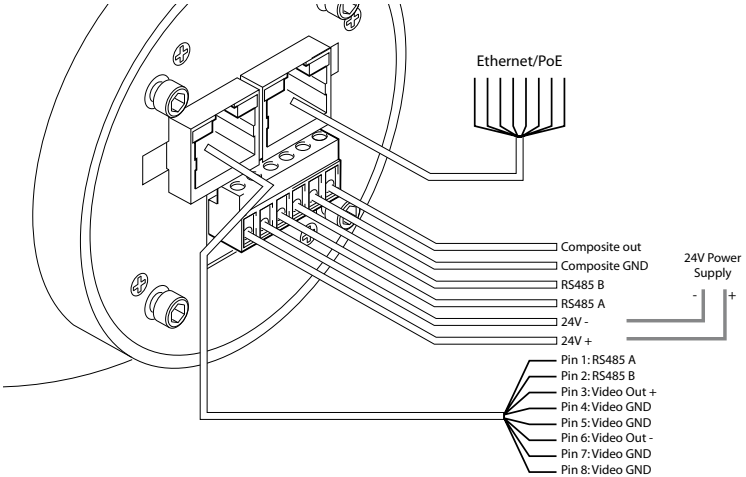
Note: *Looking at open end of connector on dome cable.*

The cable connections for the 24V AC or DC powered external dome are as follows:

Cable	Pair	Function	Connector Pin
Grey/Pink	1	Video Out +	A
Red/Blue	1	Video Out -	B
White	2	RS485 A	C
Brown	2	RS485 B	D
Black	3	Ethernet RX A	E
Violet	3	Ethernet RX B	F
Grey	4	Ethernet TX A	G
Pink	4	Ethernet TX B	H
Blue	5	24V AC or DC -	J
Red	5	24V AC or DC -	J
White/Green	6	24V AC or DC +	K
Brown/Green	6	24V AC or DC +	K
Yellow	7	Chassis	L
Green	7	GND	M

Electrical Connections - Internal

The dome requires connection to Ethernet with POE, Ethernet with 24V AC or DC power or Analogue with 24V AC or DC as required. There is no prepared cable included, the connector for the camera is included.



The two RJ45 connectors are used for Ethernet / PoE and RS485 with Balanced Line Composite Video output.

RS485 RJ45 connector

Pin	Connection
Pin 1:	RS485 A
Pin 2:	RS485 B
Pin 3:	Video Out +
Pin 4:	Video GND
Pin 5:	Video GND
Pin 6:	Video Out -
Pin 7:	Video GND
Pin 8:	Video GND

Multiway connector

Power may be suppiled via this connector or by POE over the Ethernet connection when in IP mode.

An Unbalanced video output is available at this connector for commissioning purposes. It is not suitable for long coaxial cable runs. For long coaxial cable runs, the use of a balun and the balanced video output is recommended.

Connector	Function
24V AC or DC	24V AC or DC+ from UL2044 approved Class 2 current limited 24V AC or DC 1.5A
24V AC or DC	24V AC or DC- from UL2044 approved Class 2 current limited 24V AC or DC 1.5A
485A	RS485 A
485B	RS485 B
Vid Sig	Composite Video signal (testing purposes)
Vid GND	Composite Video GND (testing purposes)

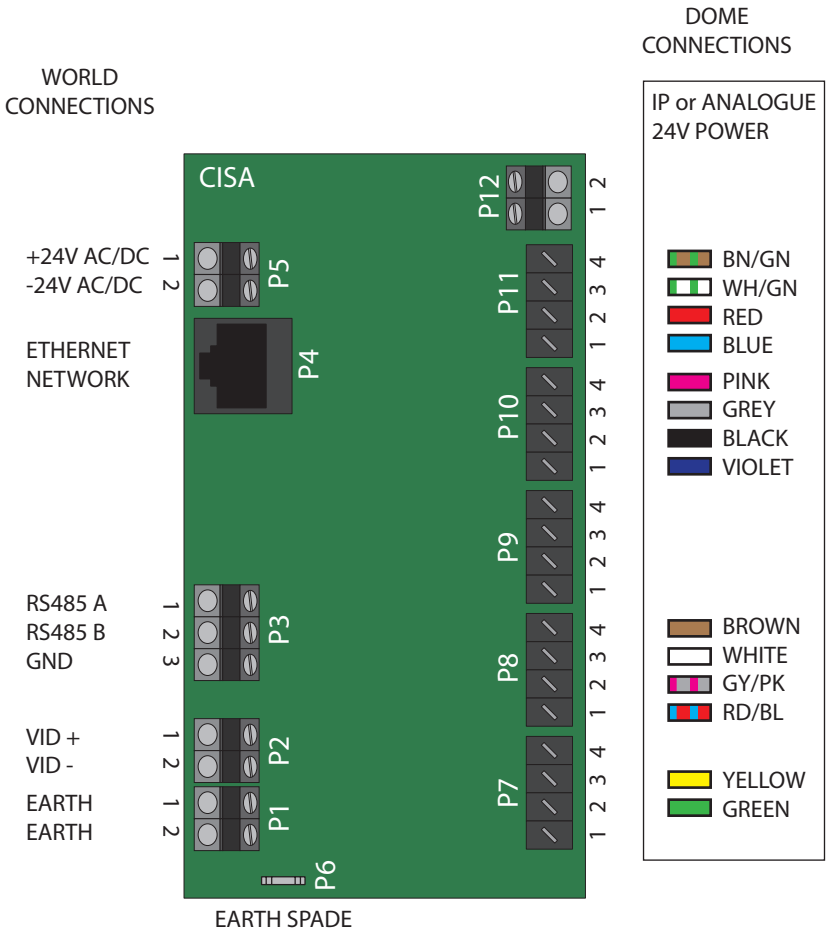
Note: *Refer to 'Dome Configuration' for a list of appropriate DVRs.*

Simple Interface and PSU connections

The Oracle Dome is available with a simple interface (DM/OD/IFACE/A or DM/OD/IFACE/B) to allow connections between the dome cable and standard cables. This PCB is either installed using customer suppy rated at 24V AC or DC, or as part of the DM Power Supply solution (DM/OD/PSU).

Connections for Oracle wiring cables are detailed below:

Simple Interface (not used on internal dome)



Analogue output is available as Balanced Line Composite Video. A balun can be fitted to convert this to coaxial composite video.

Mounting Options

Refer to Appendix C - Example Configurations for more information.

		WALL DM/BKT-CM-WALL *Interface box fitted inside wall mount*	SNOWDROP DM/90004	PENDANT DM/90046 - 150mm DM/90003 - 250mm DM/90012 - 500mm DM/90013 - 1000mm DM/90014 - 1500mm	FALSE CEILING DM/CSD/TMR Internal Tile DM/90001 External Tile/Soffit	SOLID CEILING DM/90006
CORNER ADAPTOR	standard	DM/BKT-ADAPT	-	-	-	-
POLE ADAPTOR	45-90 mm	DM/BKT-PL-4590	-	-	-	-
	90-130mm	DM/BKT-PL-90130	-	-	-	-
INTERFACE BOX MOUNT	For mounting interface box to tubular mount	-	DM/OD/BOXMOUNT	DM/OD/BOXMOUNT	-	-
INTERFACE BOX [4]	SIMPLE JUNCTION	DM/OD/IFACE/A	DM/OD/IFACE/B	DM/OD/IFACE/B	DM/OD/IFACE/B	DM/OD/IFACE/B
	ANALOGUE ALARMS *(with COAX Telemetry)*	DM/OD/ALM/AN/A	DM/OD/ALM/AN/B	DM/OD/ALM/AN/B	DM/OD/ALM/AN/B	DM/OD/ALM/AN/B
	IP ALARMS	DM/OD/ALM/IP/A	DM/OD/ALM/IP/B	DM/OD/ALM/IP/B	DM/OD/ALM/IP/B	DM/OD/ALM/IP/B
DOME POWER SUPPLY UNIT (Includes Interface Box) Input: 100-240V AC 50/60Hz Output: 24V DC	SIMPLE JUNCTION	DM/OD/PSU [1]	DM/OD/PSU [1]	DM/OD/PSU [1]	DM/OD/PSU [1]	DM/OD/PSU [1]
	ANALOGUE ALARMS *(with COAX Telemetry)*	DM/OD/PSU/ALMAN [2]	DM/OD/PSU/ALMAN [2]	DM/OD/PSU/ALMAN [2]	DM/OD/PSU/ALMAN [2]	DM/OD/PSU/ALMAN [2]
	IP ALARMS	DM/OD/PSU/ALMIP [3]	DM/OD/PSU/ALMIP [3]	DM/OD/PSU/ALMIP [3]	DM/OD/PSU/ALMIP [3]	DM/OD/PSU/ALMIP [3]
DOME CABLE	0.4M right angle	DM/OD/0M4-90	-	-	DM/OD/0M4-90	DM/OD/0M4-90
	3M straight	-	DM/OD/3M	DM/OD/3M	DM/OD/3M	DM/OD/3M
	10M straight	-	DM/OD/10M	DM/OD/10M	DM/OD/10M	DM/OD/10M
	25M straight	-	DM/OD/25M	DM/OD/25M	DM/OD/25M	DM/OD/25M

Notes:

1. Includes Simple Junction Box
2. Includes Analogue Alarm Box
3. Includes IP Alarm Box
4 Used to extend alarm capability

Mounting External Domes

Safety Bond

The safety bond is designed to prevent damage to the dome if it should fall during installation or maintenance. It must be connected between the dome mounting point and a suitable position, either on the bracket or within the ceiling void.
Note that this point will receive the full force of the dome should it fall.

For wall, pendant & snowdrop mounted domes;

1. Clip safety bond to the mounting bracket eyelet on flange of bracket to secure.

For standard ceiling mounted domes attach the supplied safety bond;

1. Attach bond to a suitable secure position in the ceiling void.

Note: *Always support dome with bond prior to mating connector. The weight of dome should be supported by bond ensuring no stress is placed on centre connector at any time.*

Dome Mounting

A. Secure & hang dome to bracket by attaching safety bond spring clip to eyelet.

Note: *Procedure is the same for all installations.*

Note: *Ceiling installation is made easier by removing an adjacent ceiling tile during installation.*

B. Mate the previously prepared central connector, *refer to 'Electrical Connections' for more information,* supplying power & control to dome (ensure power is off when connecting).

C. Lift dome to bracket flange ensuring head of screws (previously fitted cap head screw) pass through keyhole slots. Twist to locate.

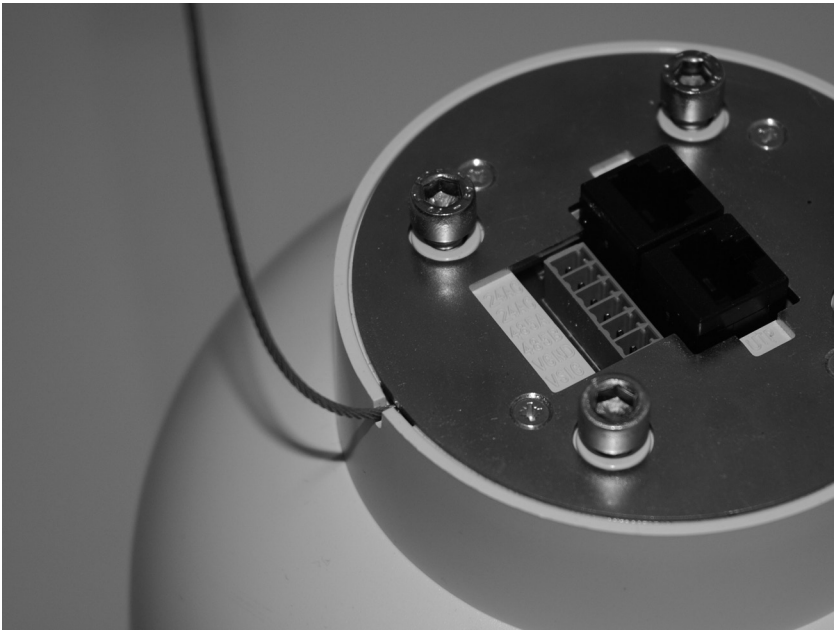
D. Tighten 4 top mounting fixings with Hexagonal key supplied to secure.

E. Secure any plastic covers or trim (wall/pendant installations only).

Mounting Internal Domes

Safety Bond

The safety bond is designed to prevent damage to the dome if it should fall during installation or maintenance. It must be connected between the dome mounting point and a suitable position, either on the bracket or within the ceiling void. Note that this point will receive the full force of the dome should it fall.



For wall, pendant & snowdrop mounted domes;

1. Clip safety bond to the mounting bracket eyelet on flange of bracket to secure.

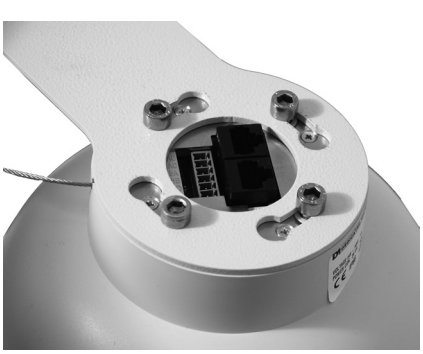
For standard ceiling mounted domes attach the supplied safety bond;

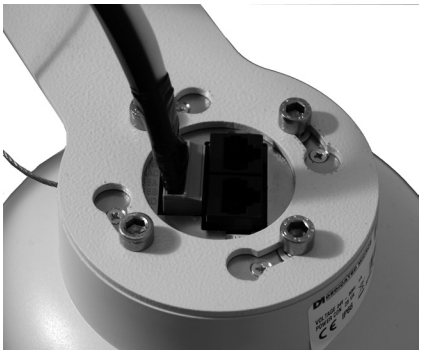
1. Attach bond to a suitable secure position in the ceiling void.

Note: *Always support dome with bond prior to mating connector. The weight of dome should be supported by bond ensuring no stress is placed on centre connector at any time.*

Dome Mounting

Pendant Mount





A. Secure and hang dome to bracket by attaching safety bond spring clip to eyelet.

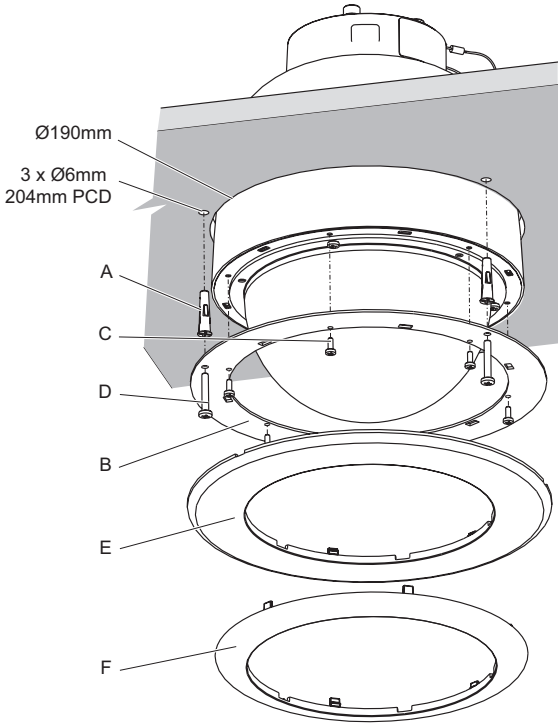
B. Mate the previously prepared central connector, *refer to 'Electrical Connections' for more information,* supplying power & control to dome (ensure power is off when connecting).

C. Lift dome to bracket flange ensuring head of screws (previously fitted Cap head Screw) pass through keyhole slots. Twist to locate.

D. Tighten 4 top mounting fixings with Hexagonal key (supplied) to secure.

E. Secure any plastic covers or trim (wall/pendant installations only).

Tile Mount (DM/CSD/TMR)



A. Remove the selected tile that will have the dome mounted in it. Use the mounting ring (B) as a template to mark the drilling positions of the 3 x supporting holes on a 204mm pitch circle diameter (6mmØ holes, if using the supplied cavity plugs (A)) and the 190mmØ hole for the dome. Fit the cavity plugs (A) to the holes.

Note: *The installer is responsible for ensuring the fixings used to mount the dome are suitable for the material and will adequately support the weight of the dome.*

B. Attach the mounting ring to the dome using the provided 6 x M3x8 fixings (C).

C. Re-install the tile in the ceiling. Secure and hang dome to a suitable mounting point in the ceiling void by attaching safety bond spring clip to eyelet through the large centre hole in the tile.

Note: *Ceiling installation is made easier by removing an adjacent ceiling tile during installation.*

D. Fasten the dome to the mounting ring (B) using the provided 3 x No.8x1”(25.4mm) self tapping screws (D) (or suitable fixings provided by the installer).

E. Snap fit the provided tile mount bezel (E). This replaces the standard bezel (F) provided with the camera. Discard the standard bezel (F).

Configuring the Unit

Dome is configured out of the box for analogue mode. If an ethernet connection is detected, the dome will switch into IP mode, enabling extra features over analogue mode which would not otherwise apply.

It will remain in IP mode, even if the cable is removed, until the dome is reset. On reset it will revert to analogue mode, but will switch back if it detects an ethernet cable. All settings for IP mode will be remembered. If it is in analogue mode and the power is not removed, it will retain the ability to switch on demand to IP mode as soon as an ethernet cable is fitted.

Dome Configuration

The Dome can be configured via the attached DVR. The special software features are available via the interface on DVR's capable of accessing them (SD Advanced, DV-IP Server, DV-IP RT and DV-IP HD), refer to the documentation for individual DVRs for further details.

The Dome has advanced features that include Point and Go, Privacy masking, Presets, Sectors and Patrols. along with Camera and Event settings. Not all of these will be available on all DVR's.

List of DVR's required to utilise advanced programming features

- SD Advanced, DV-IP Server, DV-IP HD and DV-IP RT running Gen3 pages.

Using the Unit with Secure Closed IPTV

1) Connect the camera to a Closed IP Network switch using Cat5 network cable. The POE version of this camera will draw power from the DM/NSW/CPP model switch, or from the DM/NSW/CP model switch if connected to a POE injector and separate power supply, or the 24V (AC or DC) IP variant.
2) Ensure that the Closed IP NVR or Console that the switch is connected to is in Configuration mode to allow new cameras to connect.
3) Power up the camera and wait for the on-screen acknowledgement on the monitor attached to the Closed IP NVR or Console. Alternatively check the Camera Overview web page on the Closed IP NVR or Console to determine out the camera status.
4) Once the camera has been detected and added, remember to secure the switch by moving out of Configuration mode, failure to do this will leave the Closed IPTV system unsecured.

Locating the Unit IP address

The unit is configured using on-board webpages. This can be done remotely once the unit has been installed in its chosen location.

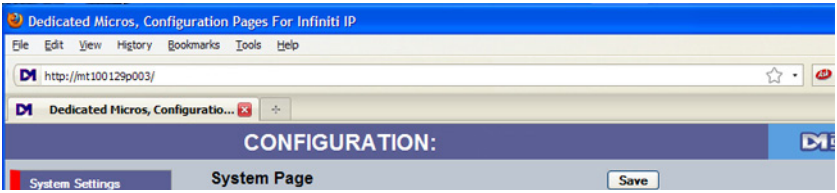
There are two methods to access the settings on an Oracle dome.

1) The unit has an infra red receiver suitable for use with a Dedicated Micros DVR remote control provided with all Dedicated Micros DVRs and NVRs, which can access and display the onboard webpages locally via the video output. This remote control capability is automatically turned off after 10 minutes of inactivity if the menus are not being displayed. This timeout can be adjusted in the menus for a shorter, longer or indefinite period. DM IR remote controls are available to purchase separately (DM/RC06), please contact your preferred supplier or DM customer support in your region.

2) Using the web browser on a PC in the same subnet as the unit. The unit configuration pages can be accessed using the unit IP address or DNS name. The unit has DHCP factory enabled. When the unit is connected to a DHCP network for the first time, an IP address is automatically assigned by the network switch or router it is connected to. Most routers will have the facility to enable DHCP and DNS, if it is not available, contact your network administrator.
The default DNS address for each unit is factory set as the serial number. This address can be found on the serial label on the unit or via the packaging the unit came in.

If DHCP and DNS are not available, the IP address can be found by connecting an analogue monitor to the balanced video output connection of the camera. The unit IP address is displayed on the analogue video output for 10 minutes from powering the unit on.

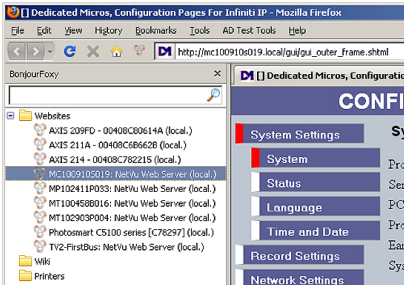
The DNS or IP address can be typed directly into the address bar of a web browser.



Note: *The DNS address of the unit can be edited to something more memorable or meaningful than the serial number by editing the System Name option in the System Attributes page.*

Zero_conf configuration

If a permanent IP address is not assigned to the unit, it will attempt to contact the DHCP server every time it starts up, and periodically thereafter. The unit support zero-configuration networking (sometimes known as Bonjour), this enables automatic discovery of computers, devices, and services on IP networks. Zero-configuration uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers. By loading a suitable free add-on to your web browser such as Bonjour for Windows for Internet Explorer or DNSSD for FireFox zero configuration devices such as this unit can easily be discovered and accessed.



Accessing the Configuration Pages

The unit is configured using the on-board configuration pages. To access these:

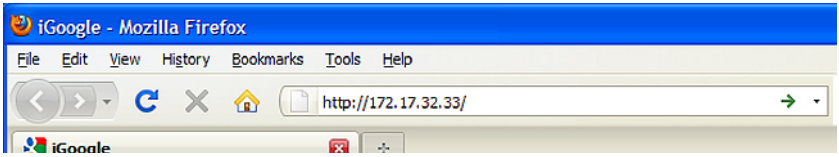
1. Launch a web browser, preferably on a PC on the same subnet as the unit or use the infra-red remote control and a monitor connected to the dome video output.

   External Dome : connect an analogue monitor to the video out connectors in the interface box via a balun.

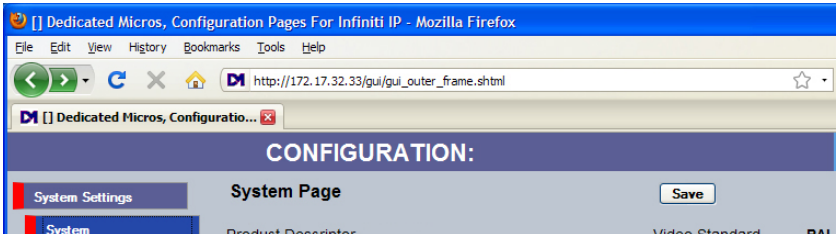
   Internal Dome : via the composite output on the connector block of the internal dome.

Refer to 'Installation' chapter wiring schematics for connection information.

2. Type the IP address (or DNS name if there is no fixed IP address) of the unit into the address bar.



3. If prompted, enter a username and password. The default settings are; username:dm and password:web.
4. The Main Menu page will be displayed.



The configuration menus are accessible via the link on the left hand side of the page.

IMPORTANT: *This Installation Guide supports both IP and Analogue mode. Please note that depending on the mode of operation not all Configuration pages will be available.*

Note: *The colour coded buttons **will not** be available when the unit is operating in Analogue mode.*

System

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

Note: *The colour coded buttons **will not** be available when the unit is operating in Analogue mode.*

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

The 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 the camera status.

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 Features page allows control of the different features that are available within the software including Email reporting and camera masking.

The Maintain page allows the current configuration to be saved, and for previously saved settings to be loaded.

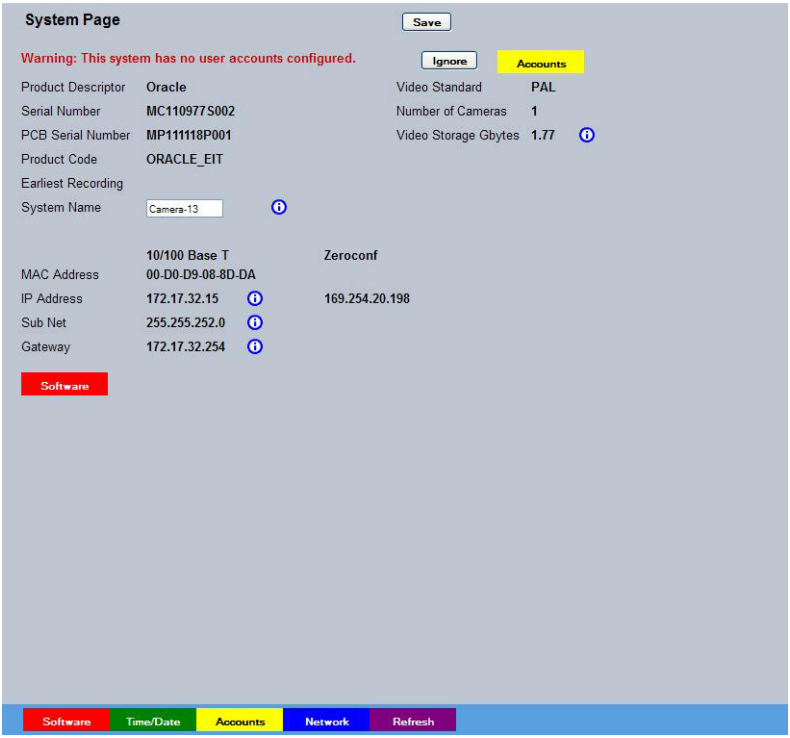
Attributes

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.

The system will display a warning if user accounts have not been set up. These can be eliminated by setting up accounts in 'Display->User Accounts'.

Note: *The Attributes menu will differ depending on whether the unit is operating in IP or Analogue mode.*

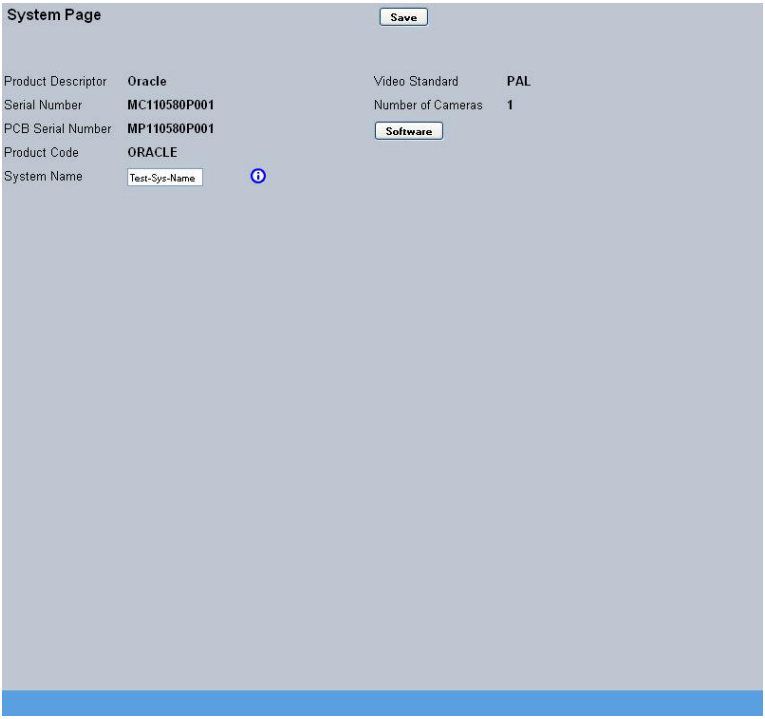
IP Mode Attributes



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, which can be typed directly into a browser to access the configuration pages. This is displayed when the unit is accessed via NetVu ObserVer and is sent when transmitting information to a Remote Video Response Centres (RVRC).
MAC Address	This is the MAC address assigned to the unit.

IP Address	These are the IP addresses allocated to the unit (zeroconf and interface IP addresses are displayed in Closed IPTV operation)
Sub Net	This is the subnet mask for the unit
Gateway	This is the IP address of the default gateway (router) assigned by the DHCP server.
Video Standard	Displays the video standard adopted by the unit i.e. PAL, NTSC.
Number of Cameras	Shows the number of camera channels on the unit i.e 1
Video Storage Gbytes	Highlights the available video storage capacity in Gigabytes.
Software (Red)	Links to the System Settings->Software details page
Time/Date (Green)	Links to the System->Time and Date page
Accounts (Yellow)	Links to the Viewer Settings->User Accounts details page
Network (Blue)	Links to the Network Settings->Network details page
Refresh (Purple)	Refreshes the current page

Analogue Mode Attributes

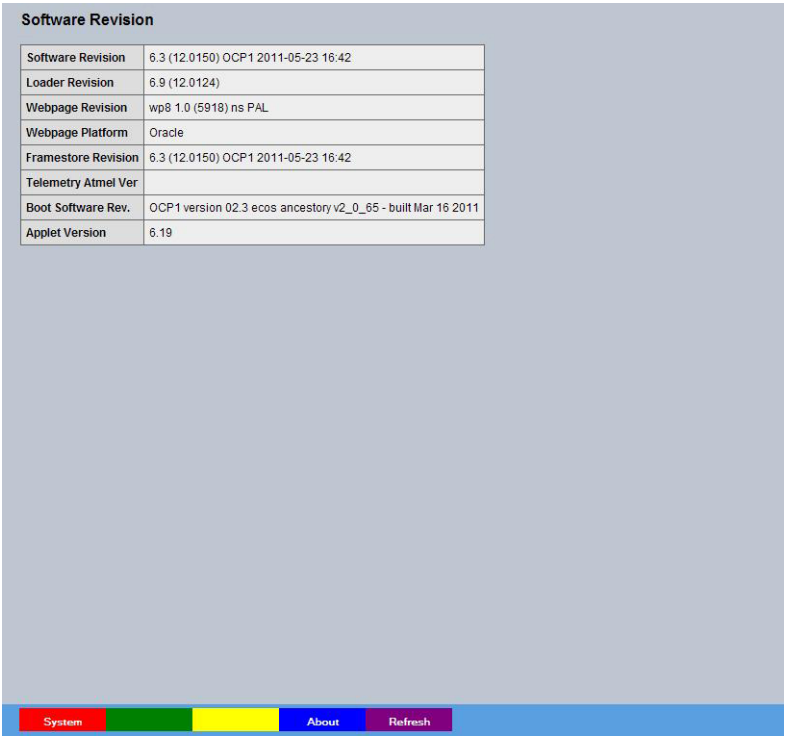


Product Descriptor	Details the product model.
Serial Number	Identifies the serial number of the specific unit.
PCB Serial Number	Displays the PCB (Printed Circuit Board) serial number of the unit.
Product Code	Displays a code identifying the unit's specification.

System Name	This field can be edited to allocate a name to the unit, which can be typed directly into a browser to access the configuration pages. This is displayed when the unit is accessed via NetVu ObserVer and is sent when transmitting information to a Remote Video Response Centres (RVRC).
Video Standard	Displays the video standard adopted by the unit i.e. PAL, NTSC.
Number of Cameras	Shows the number of camera channels on the unit i.e 1
Software (Grey)	Links to the System Settings->Software details page

Software

This page details the installed software and may be needed if calling Technical Support.



System (Red)	Links back to the System Setttings page
About (Blue)	Opens the *System->About* page.
Refresh (Purple)	Refreshes the current page

Status

Unit Status

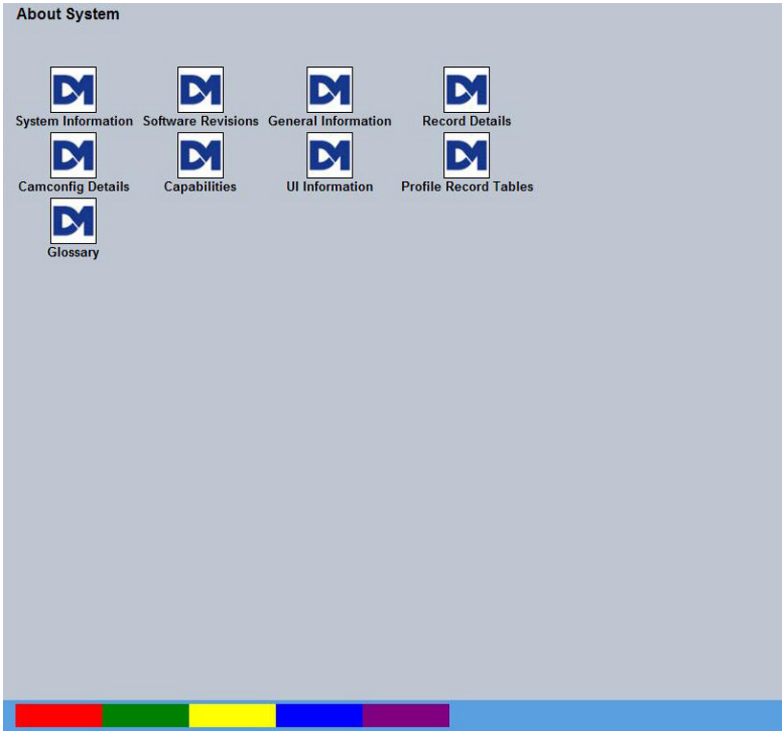
This menu details information regarding the status of the unit, notably the total time the unit has been operating and the time since its last reset.

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.
Refresh (Purple)	Refreshes the current page

About

This page provides quick links to the pages required to fault find.

Note: *Not all quick links will be available when the unit is operating in Analogue mode.*

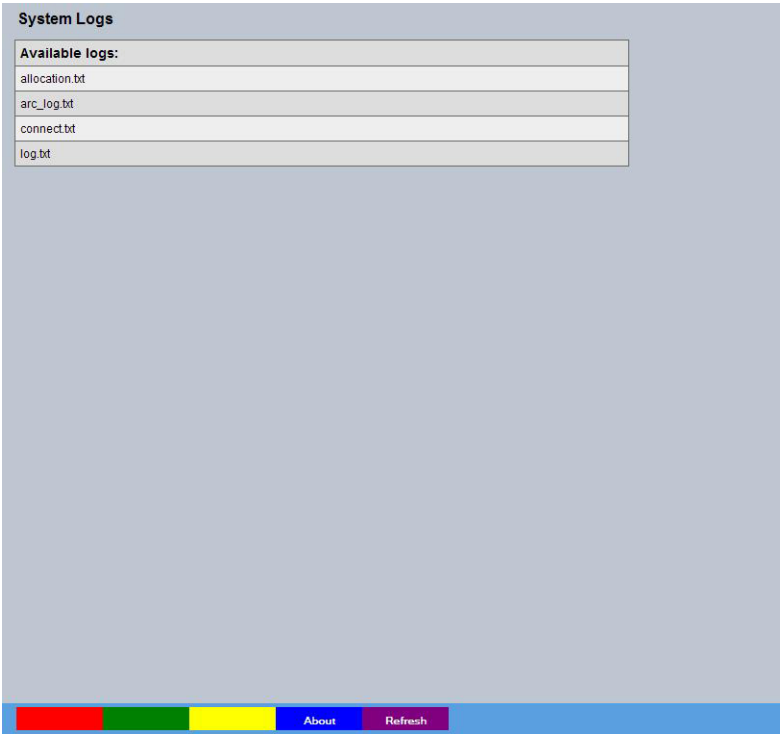


System Information	Opens the *System Settings->System* page.
Software Revisions	Opens the *System Settings->Software* page.
General Information	Opens the *General Information* page (refer to *'Appendix B - General Information'*).
Record Details	Opens the *Record Details* page (refer to *'Appendix B - Record Details'*).
Camconfig Details	Opens the *Camconfig Details* page (refer to *'Appendix B - Camconfig Details'*).
Capabilities	Opens the *Capabilities Details* page (refer to *'Appendix B - Capabilities Details'*).
UI Information	Opens the *UI Information* page (refer to *'Appendix B - UI Information'*).
Profile Record Tables	Opens the *Profile Record Tables* page (refer to *'Appendix B - Profile Record'*).
Glossary	Opens the *Glossary* page (refer to *'Appendix B - Glossary'*).

Logs

The log files stored in the unit can be accessed from this page. Selected logs are displayed on the page below.

Note: *This page will not be available when the unit is operating in Analogue mode.*

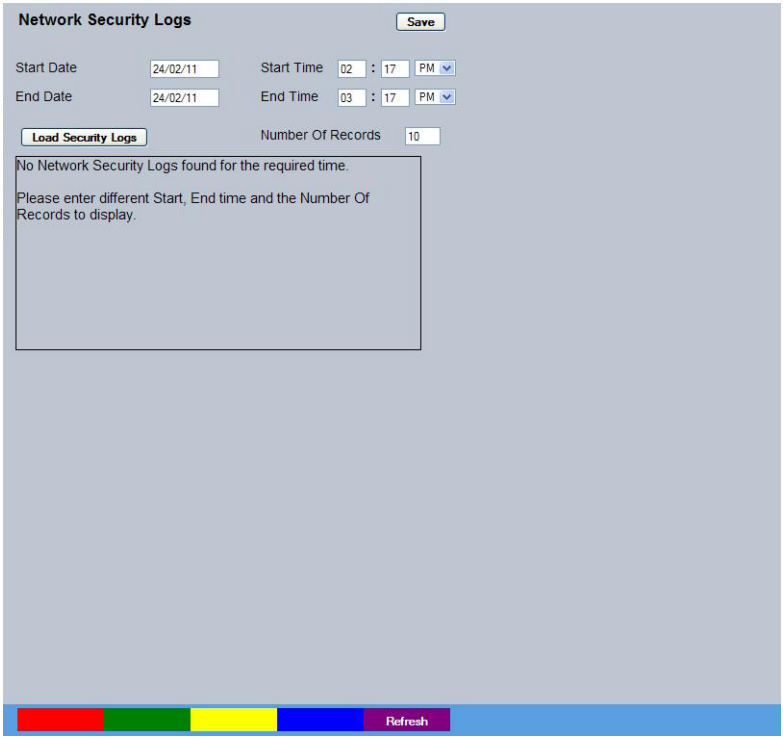


About (Blue)	Select to open the System->Status->About page.
Refresh (Purple)	Refreshes the information on the current page.

Security Logs

The log files stored in the camera can be accessed from this page. Selected logs are displayed on the page below.

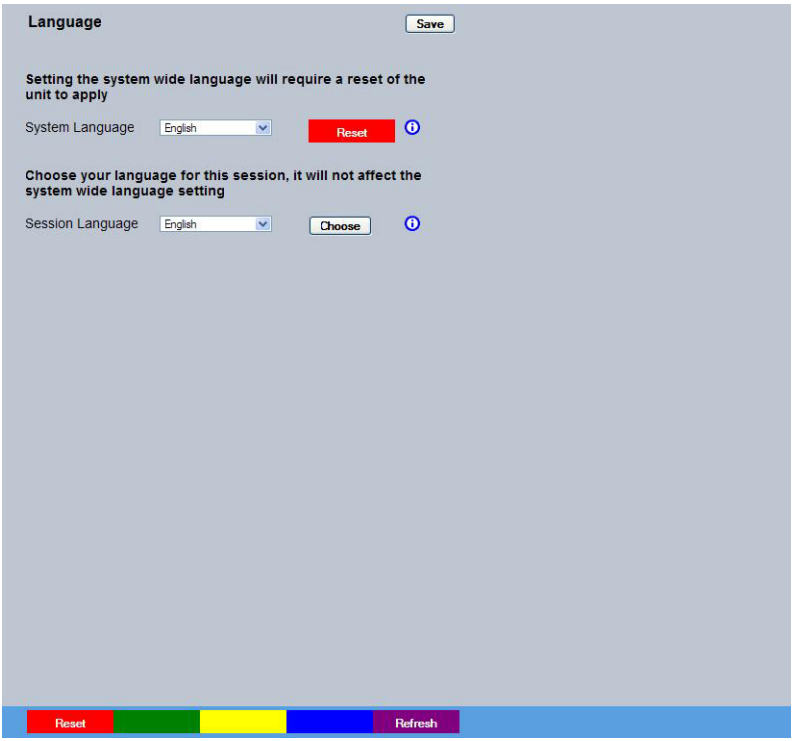
Note: *This page will not be available when the unit is operating in Analogue mode.*



Start Date	Enter a start date to filter the security log entries
Start Time	Enter a start time to filter the security log entries
End Date	Enter an end date to filter the security log entries
End Time	Enter an end time to filter the security log entries
Load Security logs	Displays security events that were logged within the start and end parameters
Refresh (Purple)	Refreshes the current page

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.

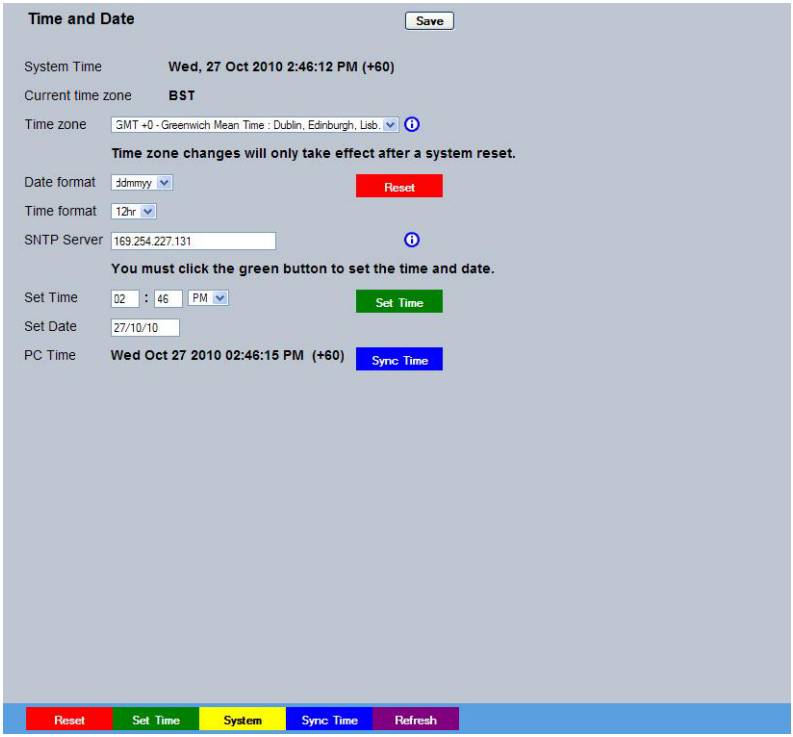
Note: *The unit MUST be reset to implement system language changes, refer to System Settings->Maintain for guidance on resetting the unit.*

Session Language	Select to change the language settings for the current session only.
Choose	Select to immediately activate session language changes.
Reset (Red)	Select to reboot the unit.
Refresh (Purple)	Refreshes the information on the current page.

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.

IMPORTANT: *Not all options will be available when the unit is operating in Analogue mode.*



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.

Note: *It is recommended that an SNTP server is configured. Suitable networked SNTP servers can be found here: http://support.ntp.org/bin/view/Servers/NTPPoolServers. Alternatively most DHCP and DNS servers also run SNTP services. Contact your system administrator for further assistance.*

Note: *The 'SNTP Server' option will not be available when the unit is operating in Analogue mode.*

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.*

Reset (Red)	Select to reboot the unit.
Set Time (Green)	When current time/date as been entered, select this button to implement changes.
System (Yellow)	Select to open the System->Attributes page.
Sync Time (Blue)	Use this button to synchronise the time of the unit to that of the PC being used to view the webpages.
Refresh (Purple)	Refreshes the information on the current page.

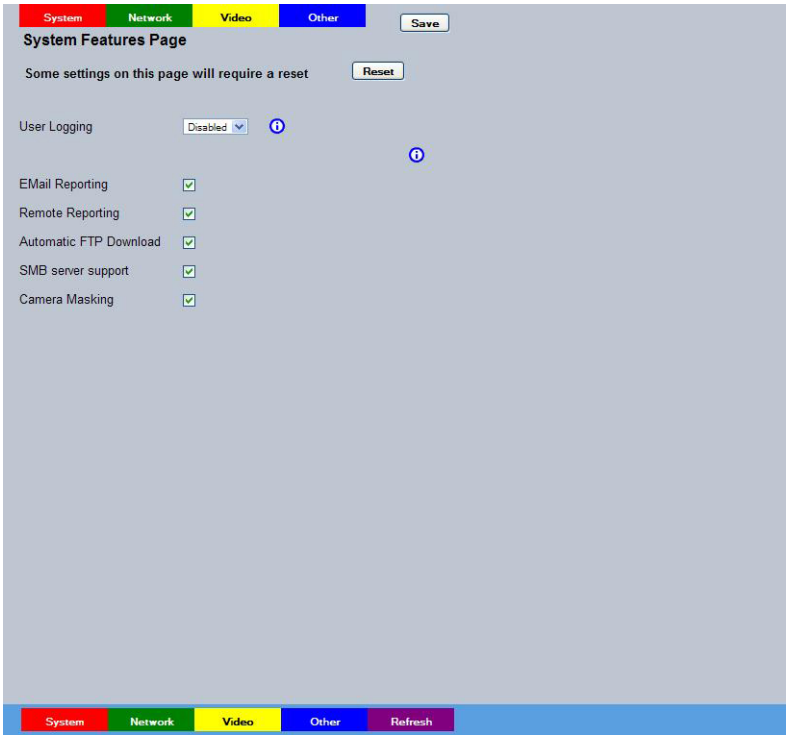
Features

This menu enables the activation of system features such as Email Reporting.

IMPORTANT: *The Features menus* ***are not*** *available when the unit is operating in Analogue mode.*

System (Red)	Opens the *System Features* page
Network (Green)	Opens the *System Features Network* page *(below)*
Video (Yellow)	Opens the *System Features Video* page *(below)*
Other (Blue)	Opens the *System Features Other* page *(below)*
Refresh (Purple)	Refreshes the current page

System Features



User Logging	Enable this option to activate User Logging, refer to 'Appendix A' for further information regarding the User Logging function.
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.*

Automatic FTP Download	Select this option to enable automatic FTP downloads to upgrade the unit and/or the webpages, *refer to 'Network->FTP Download' for more information*.

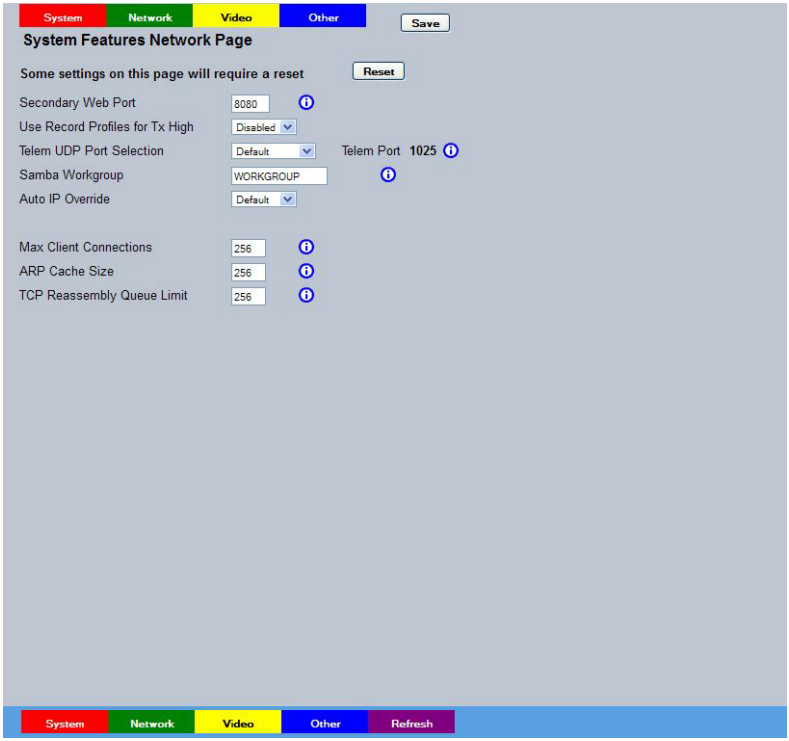
Note: *When de-selected here, the 'Automatic FTP Download' menu will no longer be displayed in the menu tree.*

SMB Server Support	Select this option to activate the SMB (Server Message Block) file sharing function. When activated, the SMB protocol allows the unit to access PCs operating the Windows operating system (and Linux machines running Samba). This enables sharing of files and directories to/from the unit. The name of the SMB Workgroup on the network must be correctly entered in the SMB Workgroup option (see below). It is important that the Server Name assigned to the unit via 'Network Settings->Server Name' is unique within the workgroup being used. To access the unit via a PC running SMB (and has access to the same Workgroup); open My Network Places-Entire Network- Microsoft Windows Network. The Workgroup containing the unit and PC(s) should then be available. Files and folders can then be copied/added as required.
Camera Masking	Select this option to activate the Camera Masking function, refer to 'Alarm Settings-Masked Cam Detection' for more information.

Note: *When de-selected here, the 'Masked Camera Detection' menu will no longer be displayed in the menu tree. Camera Masking*

System (Red)	Select to open the System->Features->System page
Network (Green)	Select to open the System->Features->Network page
Video (Yellow)	Select to open the System->Features->Video page
Other (Blue)	Select to open the System->Features->Other page
Refresh (Purple)	Refreshes the information on the current page.

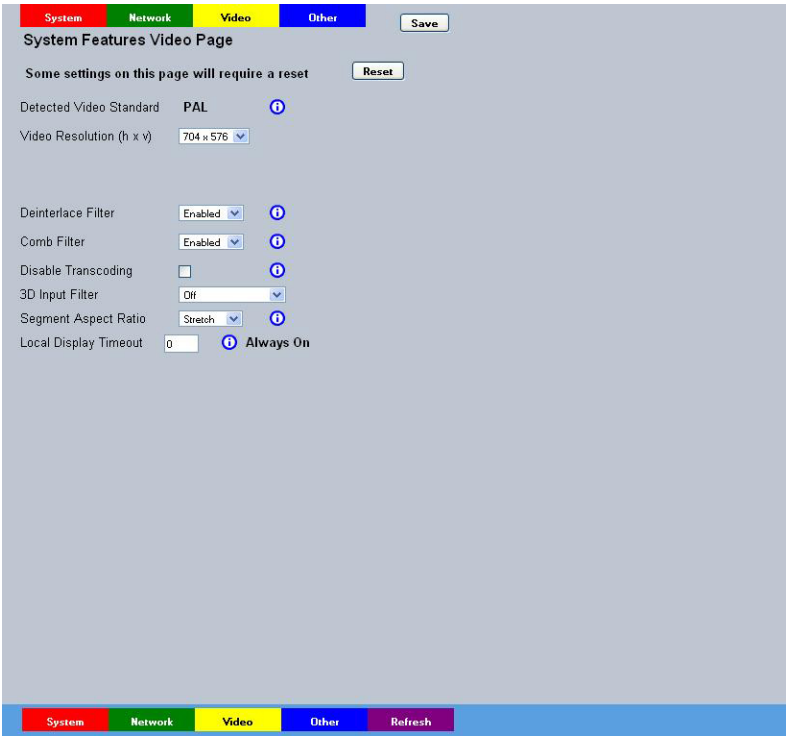
System Features Network



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.
Use Record Profiles for Tx High	This option sets the Video Transmission profile for the 'High' setting to be identical to the settings (rate/quality/resolution) that are being recorded.
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.
Samba Workgroup	Enter the name of the Samba workgroup to enable sharing of files and directories to/from the unit. To access the unit via a PC running SMB (and has access to the same Workgroup); open My Network Places- Entire Network- Microsoft Windows Network. The Workgroup containing the unit and PC(s) should then be available. Files and folders can then be copied/added as required.
Auto IP Override	This is defaulted to allow zero configuration at the factory. Select Disable to prevent Zero Config address negotiation.
Max Client Connections	This setting limits the number of client connections to the server. The default value is 256 but could be increased if there is heavy network traffic.

ARP Cache Size	This setting limits the number of cache entries available in the ARP table. The default setting of 256 is adequate for most instances
TCP Reassembly Queue Limit	This setting limits the maximum number of TCP segments allowed in the reassembly queue, to protect against a common DoS attack.
System (Red)	Select to open the System->Features->System page
Network (Green)	Select to open the System->Features->Network page
Video (Yellow)	Select to open the System->Features->Video page
Other (Blue)	Select to open the System->Features->Other page
Refresh (Purple)	Refreshes the information on the current page.

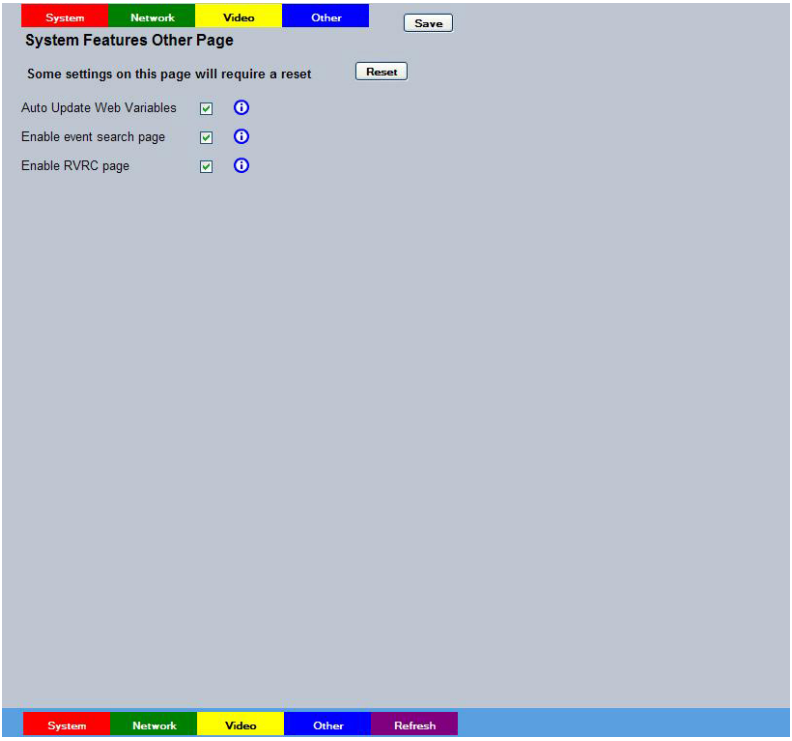
System Features Video



Detected Video Standard	The unit automatically detects the video standard being used i.e. PAL/NTSC.
Video Resolution (h x v)	Allows selection of the resolution, options are 704 x 576, 704 x 512 and 640 x 512
Deinterlace Filter	Select this option to improve display clarity and minimise the comb effect that may be visible when recording high motion scenes in high resolution.
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.
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.

3D Input Filter	Advanced input filtering to the video codec, providing input signal noise reduction. It's primary purpose is to reduce noise observed when viewing standard definition cameras or HD monitors. Options are Off, Time Domain Filter, Spatial Filter, or Both.
Segment Aspect Ratio	This setting control how a 4:3 image is displayed in a multi-screen or wide screen format on the local viewer. The available display segment changes depending on the number of multi screen images selected for display. Stretch forces the image to fill the available display segment. This may result in some distortion of the display image. Zoom Fit forces the frame to fill the available segment completely and proportionally. Consequently some of the image at the top and bottom of the frame may be cropped. Frame Fit forces the frame to fill the available segment proportionally, resulting in black bars left and right on some multi display choices.
Local Display Timeout	When in IP mode it is desirable to switch off the analogue output to gain CPU time. This option deactivates the analogue output after 'x' minutes. If set to '0' the analogue output will not be deactivated.
System (Red)	Select to open the System->Features->System page
Network (Green)	Select to open the System->Features->Network page
Video (Yellow)	Select to open the System->Features->Video page
Other (Blue)	Select to open the System->Features->Other page
Refresh (Purple)	Refreshes the information on the current page.

System Features Other



Auto Update Web Variables	This is used to enable/disable the configuration webpage auto update acceptance option which is displayed when the configuration webpage version has been updated. The default is to auto accept and update the configuration pages.
Enable Event Search Page	Select to enable the Event Search option.

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

Enable RVRC page	Select this option to activate the RVRC Remote Set/Unset/Override function, *refer to 'Record Settings-RVRC' for more information.*

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

System (Red)	Select to open the System->Features->System page
Network (Green)	Select to open the System->Features->Network page
Video (Yellow)	Select to open the System->Features->Video page
Other (Blue)	Select to open the System->Features->Other page
Refresh (Purple)	Refreshes the information on the current page.

Maintain

This menu allows the unit to be reset to the factory default configuration. Previous upgrade files can also be cleared from the unit using this page.

Note: *The colour coded buttons **will not** be available when the unit is operating in Analogue mode.*

Configuration

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

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

Purge old upgrade files	The files from previous upgrades can be purged to free space on the unit.
IR Detector Timeout	The unit can be operated from a standard Dedicated Micros remote control until the IR Detector Timeout period expires.
Reset (Red)	Select to reboot the unit.
Default (Green)	Select to return the unit to its factory default settings.

Display

The Display menu allows settings for the local viewing client to be established and user access to the system.

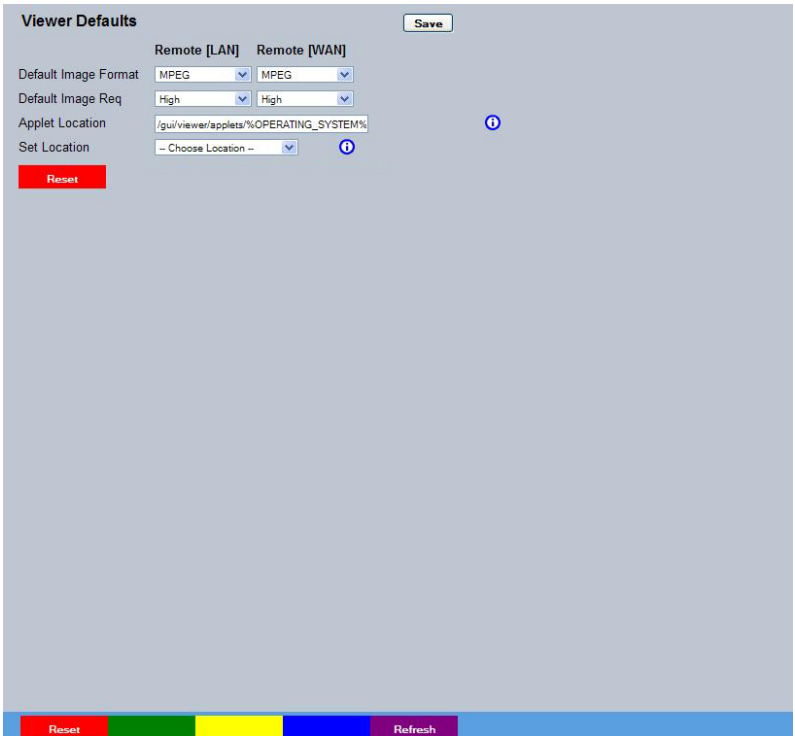
IMPORTANT: *The Display menu **will not** be available when the unit is operating in Analogue mode.*

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

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

Viewer Defaults

The units 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.

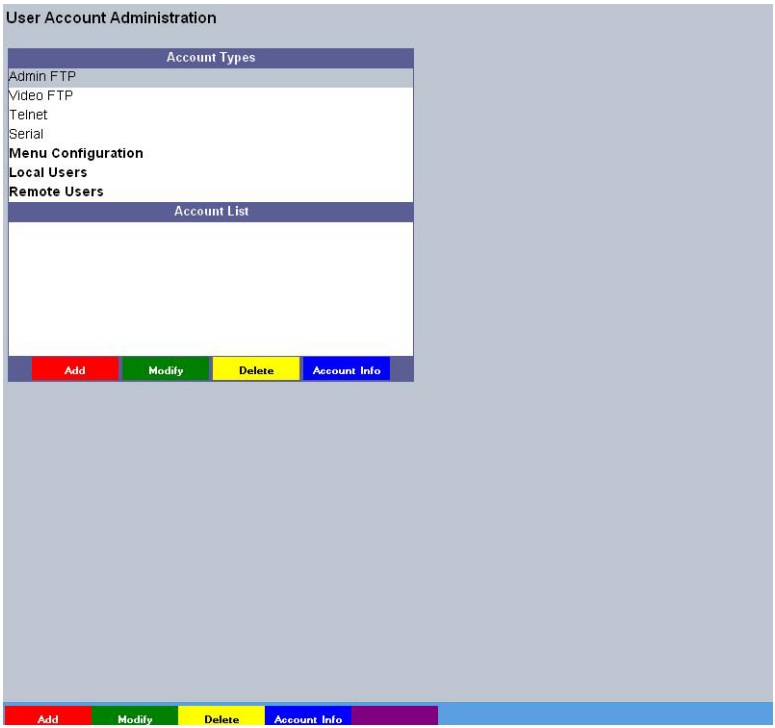


Default Image Format	Images from cameras can be displayed in either JPEG or MPEG format. Default settings can be configured for accessing the Viewer function via a low bandwidth connection (WAN) or a higher bandwidth connection (LAN).
Default Image Req	Images displayed full screen in the Viewer menus can be shown in either High Medium or Low resolution. Default settings can be configured for accessing the Viewer function via a low bandwidth connection (WAN) or a higher bandwidth connection (LAN).

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 systems. 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, Dedicated Micros provide a remote applet located on the Dedicated Micros website (www.dedicatedmicros.com/software_release/windows/viewer-applet.jar). Due to possible bandwith restrictions on the network the DVR is located, using this remote applet may improve data transfer speeds.
Set Location	Select the applet location. Choose from 'Default location' i.e. the applet installed on the unit; or the 'Dedicated Micros website' option i.e. the remote applet.
Reset (Red)	Select to reboot the unit.
Refresh (Purple)	Refreshes the current page

User Accounts

The unit can protect configuration, control FTP and viewing rights by limiting access via user names 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 NetVu ObserVer).
- 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.

• 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.

When granting access privileges to Local and Remote Users, it is possible to limit access to specific cameras. Using the Camera Selection segment of the Add New Account menu, enter those cameras for which access will be permitted. Select the cameras in accordance with the input channel they're connected to on the rear of the unit. For example, if wanting to allow access to camera 1 to 3 inclusive, enter: 1-3. If wanting to grant access to cameras 1,3 and 6, enter 1,3,6. If no camera data is entered, access will be allowed to all connected cameras in both live and playback modes.

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.

IMPORTANT: *If passwords are implemented and then forgotten, it is likely the unit will need to be returned to Dedicated Micros for unlocking.*

Add (Red)	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 (Green)	To modify user setting, highlight the user in the list and press to Modify.
Delete (Yellow)	To delete a user, highlight the user in the list and press to Delete.
Account Info (Blue)	Select to display general information regarding the various account types.

Camera

The Camera menu allows for camera configuration.

The Dome Settings menu contains all the submenus for configuring dome features.

The Telemetry Setup Page allows the telemetry mode and termination to be configured.

Dome Settings

The Dome Settings menus allow configuration of features on the unit. Refer to the individual menus for further details.

Note: *The colour coded buttons **will not** be available when the unit is operating in Analogue mode.*

Note: *Page appearance may differ depending on whether the unit is operating in Analogue or IP mode.*

The Status page details fundamental information regarding the status of the unit i.e. the model type and the version of software/firmware installed.

The Presets page allows Preset positions to be configured and stored.

The Sectors page enables the cameras 360 degree field of view to be effectively split into 32 segments. These segments can be named and displayed via the On Screen Display (OSD Advanced).

The Patrols page allows camera patrol sequences to be established and configured. The Patrol feature uses established preset positions to automatically pan, tilt and zoom the camera in the selected sequence.

The OSD page allows the Dome OSD Advanced (On Screen Display) information to be configured. This text will accompany displayed camera images in the Viewer menus.

The Privacy Masks page allows privacy masking to be established and configured. The Privacy Mask feature can be used to 'blank out' sensitive or private areas which appear in the cameras field of view.

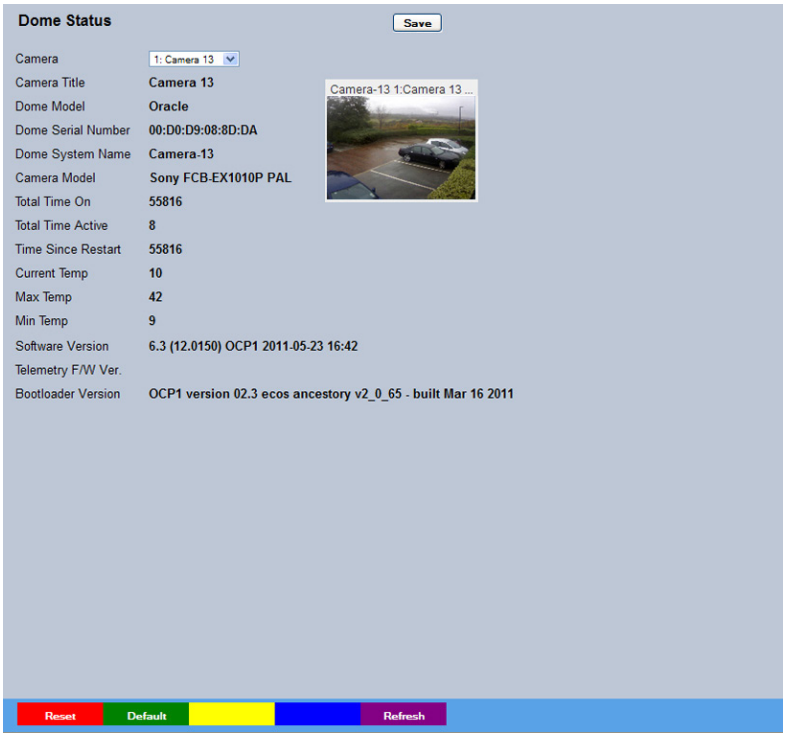
The Camera page page allows features such as white balance and shutter speed to be configured.

The Misc page allows adjustment of the dome pan and tilt speed and enabling of the auto flip feature..

The Event Settings page allows actions to be established and configured for the Dome camera following an alarm. A Home position can be established and the delay time set for what period of inactivity is required before the camera will be sent to its home position.

Status

This menu details information regarding the status of the Infiniti unit, notably the model type, current temperature and the version of software/firmware installed.

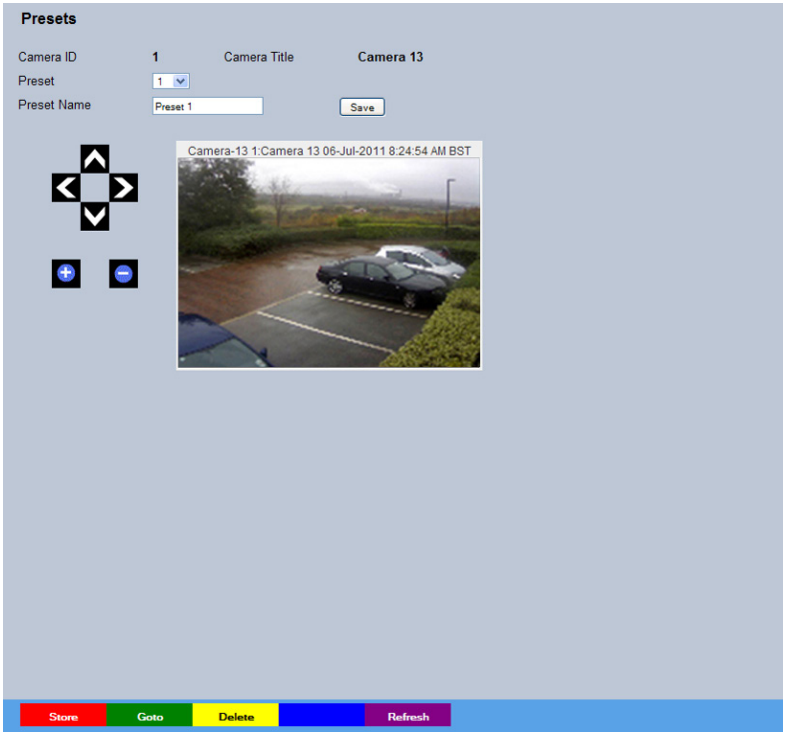


Camera	Displays the camera channel.
Camera Title	Title assigned to the selected camera channel.
Dome Model	Details the product model.
Dome Serial Number	Identifies the serial number of the specific camera.
Dome System Name	Displays the name assigned to the camera on the System Settings->Attributes page
Camera Model	Displays the camera model information
Total Time On	Details the operational life time of the camera to date.
Total Time Active	Details the total time that PTZ has been in use
Time Since Restart	Details the time since the camera was last reset.
Current Temp	Details the current temperature of the camera unit.
Max Temp	Details the maximum temperature the camera unit has reached.
Min Temp	Details the minimum temperature the camera unit has reached.
Software Version	This identifies the version of software the camera unit is running.
Telemetry Firmware Version	This identifies the telemetry processor software version
Bootloader Version	This identifies the version of bootloader version on the camera.
Reset (Red)	Select to reboot the unit.

Default (Green)	Select to return the unit to its factory default settings.
Refresh (Purple)	Refreshes the information on the current page.

Presets

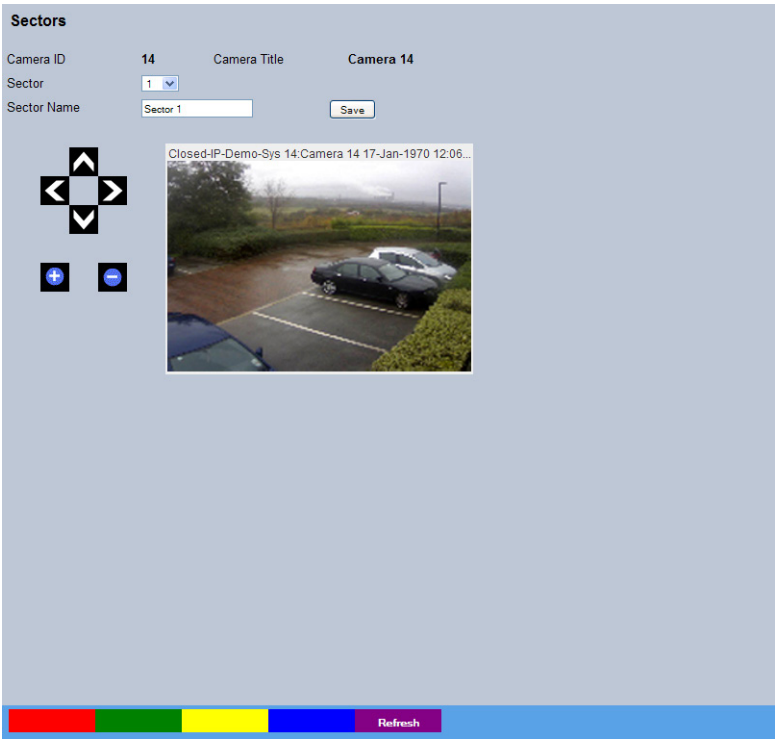
This menu allows Preset positions to be configured and stored for the unit.



Camera ID	Selected camera channel.
Camera Title	Title assigned to the selected camera channel.
Preset	Select a preset number (1 to 100).
Preset Name	Enter a recognisable name for the Preset (up to a maximum of 25 characters).
Save	Select to save the entered preset title to the unit and the Infiniti camera memory.
Store (Red)	Select this button to store the current preset position to the Infiniti camera's memory.
Goto (Green)	Select this button to immediately send the camera to the currently stored preset position.
Delete (Yellow)	Select this button to delete the currently displayed preset configuration.
Refresh (Purple)	Refreshes the current page.

Sectors

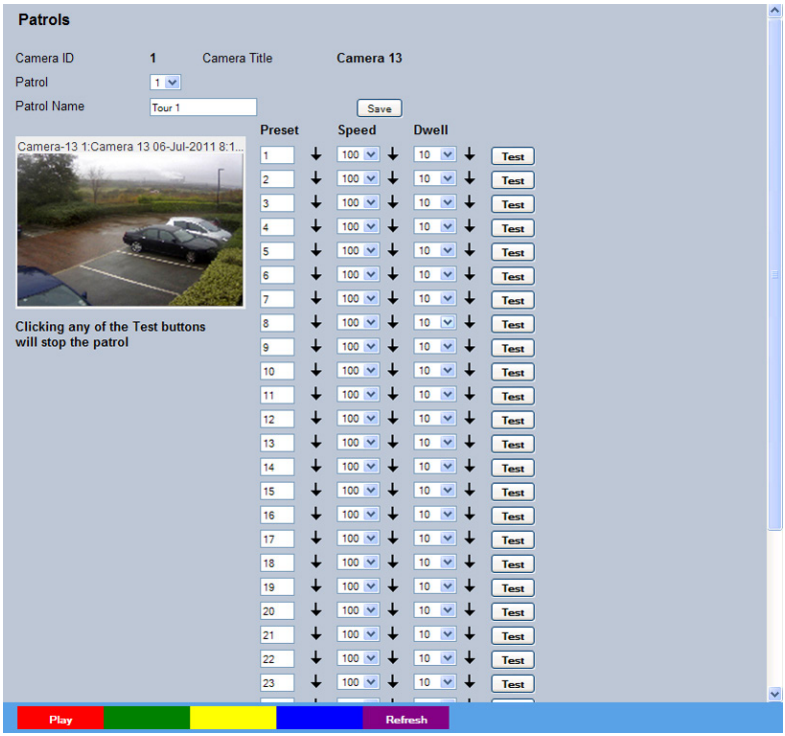
This menu allows the Dome camera's 360 degree field of view to be split into 32 segments. These segments can be named and set to accompany the displayed camera image via the OSD Advanced menu. They can be used to aid an Operator in quickly identifying the current camera position.



Camera ID	Selected camera channel.
Camera Title	This is the title assigned to the selected camera channel.
Sector	Select from sector 1-32.
Sector Name	Enter a name for the selected sector (up to a maximum of 25 characters).
+	Use the + button to zoom the camera view IN.
-	Use the - button to zoom the camera view OUT.
Navigation Buttons	Use the four navigation buttons to position the camera view.
Refresh (Purple)	Refreshes the current page

Patrols

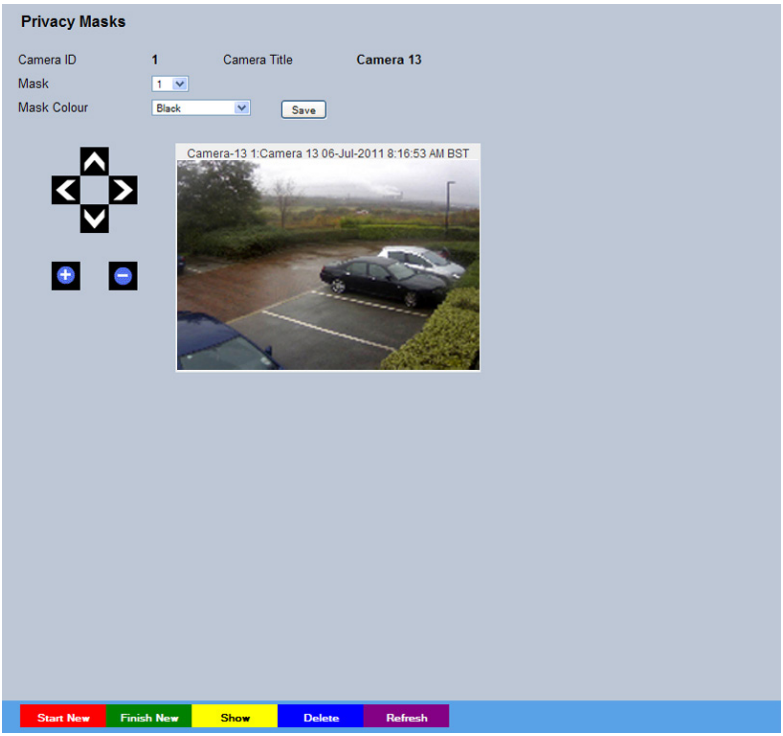
This menu allows camera patrol sequences to be established and configured for the unit. The Patrol feature utilises established preset positions to automatically pan, tilt and zoom the camera in the selected sequence.



Camera ID	Selected camera channel.
Camera Title	Title assigned to the selected camera channel.
Patrol	Up to four Patrol sequences can be established.
Patrol Name	Enter a recognisable name for the Patrol.
Save	Select to store the preset sequence to the unit and the camera memory.
Preset	Select a pre-established Preset.
Speed	Select the Speed the Patrol will progress to the next Preset position (the speed can be set as a percentage of maximum capability).
Dwell	Select the Dwell time (in seconds) the Patrol will remain at this Preset position.
1-32	Up to 32 individual positioning manoeuvres can be added to a Patrol.
Play (Red)	Select to activate (play) the current patrol sequence.
Refresh (Purple)	Refreshes the current page.

Privacy Masks

This menu allows Privacy Masks to be established and configured for the unit. The Privacy Mask feature can be used to 'blank out' sensitive or private areas which appear in the cameras field of view.



Camera	Selected camera channel.
Camera Title	Title assigned to the selected camera channel.
Mask	Up to 24 separate masked areas can be created.
Mask Colour	The colour of the mask can be selected from the drop down list. The default is black.
Save	Select to store the mask

Note: *Select 'Start New' to begin creation of a privacy area. A black rectangle will then be displayed superimposed across the camera view. Point the camera to the exact centre of the area requiring the privacy mask before pressing the 'Start New' button. The joystick will then control the shape and size of the mask. Click the OK button to accept the shape on screen, the click 'Finish New' to save the mask.*

Start New (Red)	Select this option to begin creation of privacy mask.
Finish New (Green)	Select this option to finish creation of privacy mask.
Show (Yellow)	Select this option to show camera view with existing privacy mask displayed.
Delete (Blue)	Select this option to delete the currently displayed privacy mask.
Refresh (Purple)	Refreshes the current page.

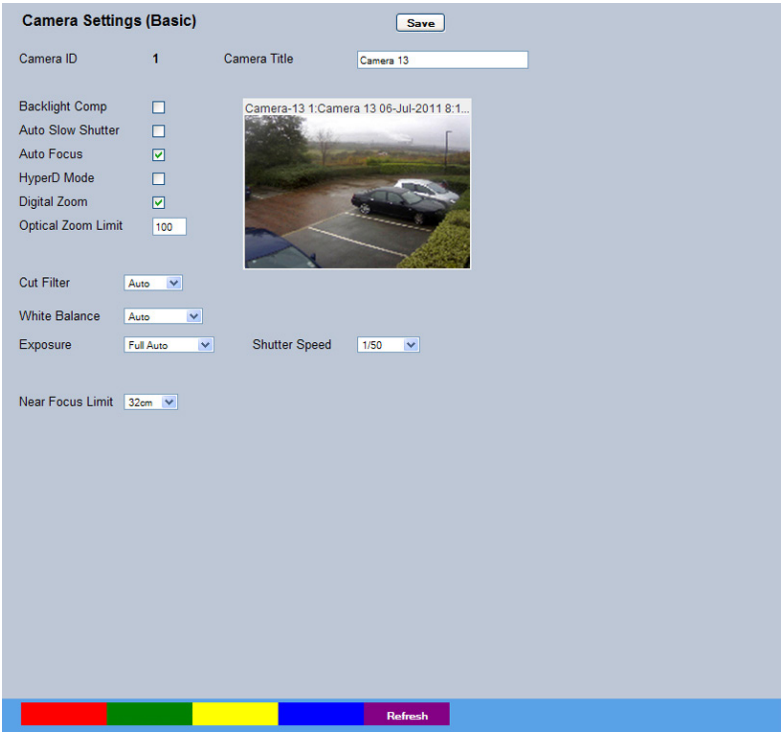
OSD

This menu allows the Dome's OSD Advanced (On Screen Display) information to be configured. This text will accompany displayed camera images when the camera is configured in Analogue mode.

Preset Title	Select desired position to locate the Preset Title information.
Sector Title	Select desired position to locate the Sector Title information.
PTZ Display	Select desired position to locate the PTZ Display information.
Alarm Name	Select desired position to locate the Alarm Name Position information.
	For all above functions, the available positions are: Top Left, Top Right, Bottom Left, Bottom Right and Off (No information displayed). All options are then split into three further sections; 1,2 and 3. This relates to the display line i.e. Top Left 1 would be the very top line, Top Left 2 would be the line below etc. This enables information to be 'stacked' in one segment of the screen.
Save (Grey)	If the page is accessed via the GUI on a DVR, this will store OSD Advanced Settings to the unit and in the dome. If accessing the dome directly, this will store OSD Advanced Settings in the Oracle Dome camera memory.
Refresh (Purple)	Refreshes the current page

Camera

This menu allows settings for the camera to be established and configured.

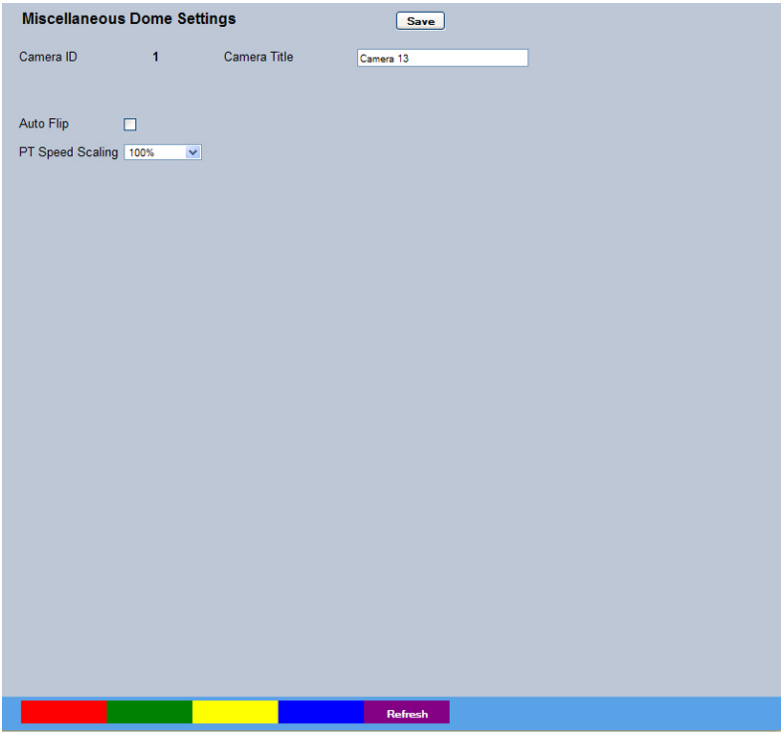


Save (Grey)	Select to store the settings.
Camera ID	Selected camera channel.
Camera Title	Title assigned to the selected camera channel.
Backlight Comp	Select to activate Backlight Compensation. This feature compensates for back-lit scenes by enhancing objects which would previously have been in silhouette.
Auto Slow Shutter	The auto slow shutter feature enables the camera to automatically decrease the shutter speed in low light settings to help maintain quality of displayed images.
Auto Focus	The Auto Focus feature enables the camera to best focus on its current view. Select to activate.
HyperD Mode	When selected, the dynamic range of the camera is increased. This feature is available on Day/Night cameras only.
Digital Zoom	Select to activate the Digital Zoom function e.g. the camera will zoom within the actual image.
Optical Zoom Limit	Select to limit the Infinitis optical zoom function. By default '100%' is selected and the camera can zoom to its maximum capabilities. The optical zoom function can be limited to between 75% and 100% magnification.

Cut Filter	Units with day/night cameras have an Infrared Cut Removal (ICR) function which can enhance the camera's sensitivity in low light conditions as well as allowing infrared illumination to be used (infrared is blocked by the IR cut filter). When ICR is ON, the camera switches to monochrome mode, the IR cut filter is removed and the camera is at its most sensitive. The default setting for the camera is AUTO ICR where the filter is controlled automatically dependent on the scene brightness determined by the camera. The camera can be forced to stay in colour mode by setting ICR to OFF, or can be forced into mono with maximum low light sensitivity by setting ICR to ON. Alternatively ICR switching can be triggered in response to an alarm input. This allows a photocell sensor to be connected to one of the unit's opitional IP or analogue alarm box inputs to control the ICR. This method can be used to avoid instability that may occur when the camera controls the ICR switching in marginally low light conditions. Removing the IR cut filter due to low light can cause enough of an increase in scene brightness and video level to make the camera return the IR cut filter and switch immediately back to colour mode (at which point the video level drops and the process is repeated).
White Balance	The White Balance feature enables the camera to compensate for different lighting scenarios which can effect the colour quality of the displayed image. Select 'Auto' for the camera to auto-compensate for white balance depending on current view. Select 'Indoor' to permanently set for best results in an indoor setting. Select 'Outdoor' to permanently set for best results in an outdoor setting.
Exposure	This setting maintains optimum contrast settings for the viewed image/ camera location. Select 'Full Auto' for the camera to auto-compensate for best exposure settings depending on current view. Select 'Manual' to manually configure exposure settings. Select 'Shutter Priority' to manually enter the shutter speed.
Shutter Speed	If the Exposure feature is to be manually configured, enter the shutter speed settings.
Near Focus Limit	Dictates the minimum distance that the unit can auto-focus on, to prevent the camera locking on an image on the protective screen
Refresh (Purple)	Refreshes the current page.

Misc

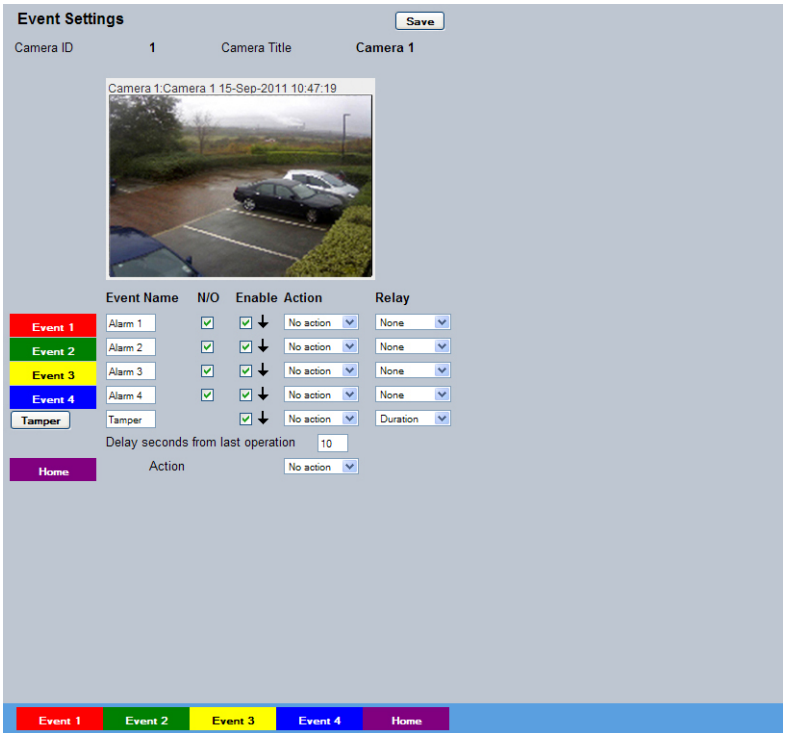
This menu allows the miscellaneous settings for the camera to be established and configured.



Save (Grey)	Select to store the settings.
Camera ID	Selected camera channel.
Camera Title	Title assigned to the selected camera channel.
Auto Flip	When the feature is activated, it will rotate a camera 180 degrees when the camera reaches its maximum upper or lower extremity i.e pointing directly upwards or downwards. This enables a camera to continue a tilt manoeuvre i.e. if tilting in an upwards direction, when the camera is pointing directly up, it will rotate 180 degrees and begin tilting in a downwards direction. If unselected, a camera will stop when it reaches its maximum upper or lower extremity.
PT Speed Scaling	Allows the speed at which the unit pans and tilts to be reduced by a percentage of the standard speed (50%, 70% or 100%) or to be set to move expedientially, which will gradually increase to 100% the longer it is held in position.
Refresh (Purple)	Refreshes the current page.

Event Settings

This menu allows actions to be established and configured for the Infiniti camera following an alarm event. A Home position can be established for the camera and the delay time set for what period of inactivity is required before the camera will be sent to its home position.



Camera ID	Selected camera channel.
Camera Title	Displays the title assigned to the selected camera channel.
Tamper (Grey)	Click to test the Tamper Event.
Event Name	If required, enter a specific name for the alarm event.
N-O	Select if the alarm sensor is normally open (with optional alarm box).
Enable	Enables or disables monitoring of the alarm input (with opt. alarm box).
Action	Select a preset position or a patrol action for the camera upon alarm event (with optional alarm box).
Relay	Select an action for the relay. Select ‘Momentary’ for the relay to momentarily switch state. Select ‘Duration’ to switch relay status for the duration of the alarm (with optional alarm box).
Home	Select to send the camera to its predetermined home position.
Action	Select a preset or patrol from the accompanying drop down list. This preset/patrol will now be set as the cameras ‘home’ position.
Delay seconds from last operation	Select the time (in seconds) for which the camera is inactive i.e. no operator input, before returning to its home position.
Save (Grey)	Select to store Event Settings to the unit and the camera memory.

Telemetry Setup

This menu allows telemetry protocols and RS485 data to be configured.

Camera ID	Selected camera channel.
Camera Title	Displays the title assigned to the selected camera channel.
Telemetry Mode	To switch telemetry mode,choose from the drop down list and select 'Change'.

Note *DM-IP will not be available when the unit is operating in analogue mode.*

RS485 Address	Enter the RS485 address
RS485 Termination	The last dome connected to the telemetry port should be terminated. Select 'On' if this dome is the last (or only) dome connected to the RS 485 port of the DVR.

Note: *Telemetry configuration changes will only take place after a system reset.*

Save (Grey)	Select to store Event Settings to the unit and the Infiniti camera memory.
Refresh (Purple)	Refreshes the current page.

ICR Settings

The ICR Settings menus allow configuration of the unit's record functions. ICR 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.

IMPORTANT: *The ICR Settings menu* ***will not*** *be available when the unit is operating in Analogue mode.*

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

The AoE page allows configuration of the units ATA over Ethernet (AoE) function. AoE is a network protocol designed for simple high-performance access of storage devices over Ethernet networks Importantly the external storage device must be located on the same network as the unit.

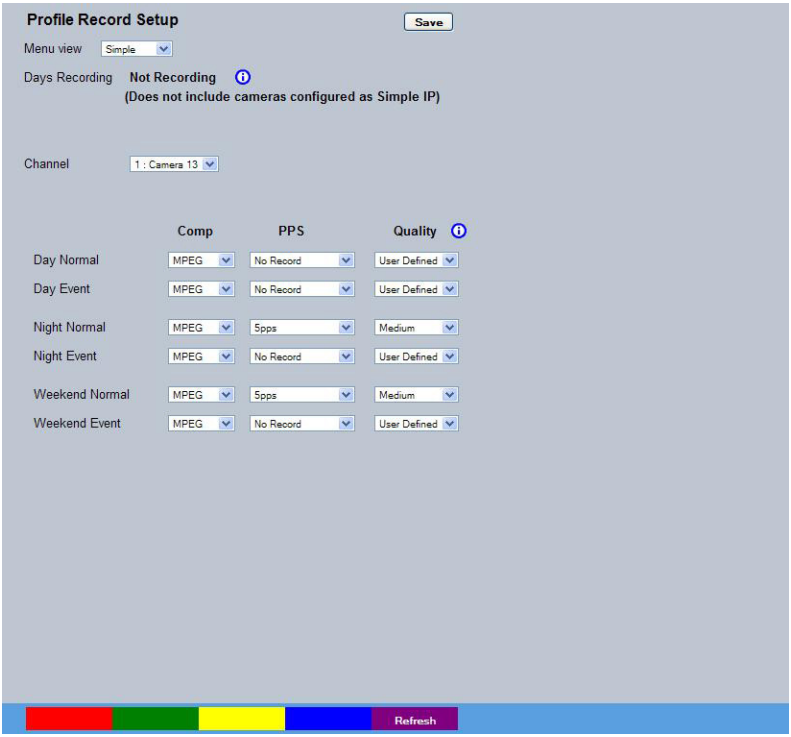
The Video Storage page displays drives that are available for video recording and allows the formatting and allocation of these devices.

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 override 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.*

Note: *This page is only relevant if images are being recorded to the camera. If a DVR is being used, recording direct to the camera may be disabled.*

Simple Record



Menu View	Switch to the Advanced Profile Record menu.
Days Recording	Displays the record duration possible using the current configuration.
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.*

Note: *Unset, Set and Override modes may be renamed via Record Settings->Schedule.*

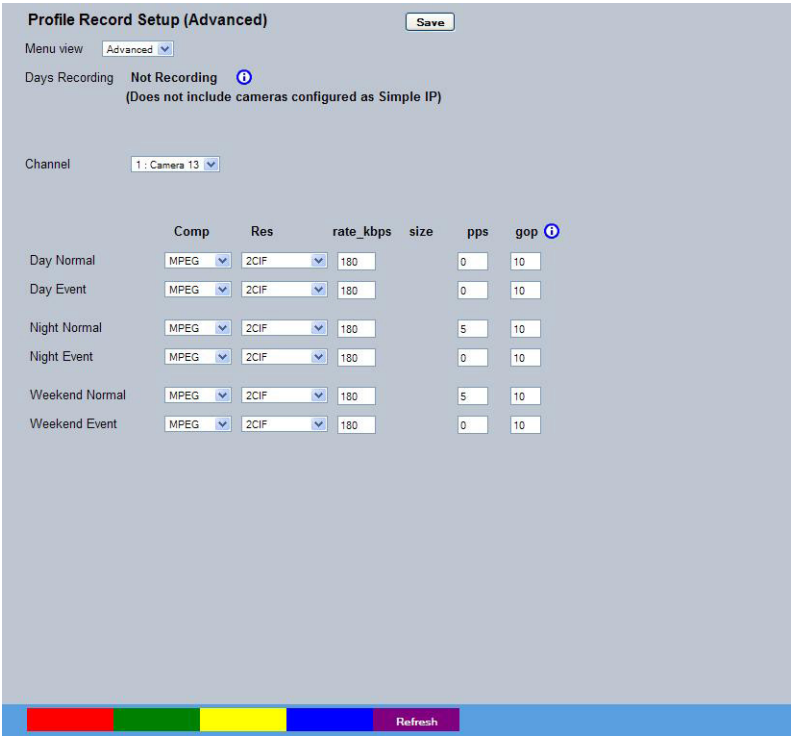
Comp	Select image compression format (MPEG, JPEG or H264).

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 1/4, 1/2 or 3/4 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 needed.*

Refresh (Purple)	Refreshes the current page

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.*

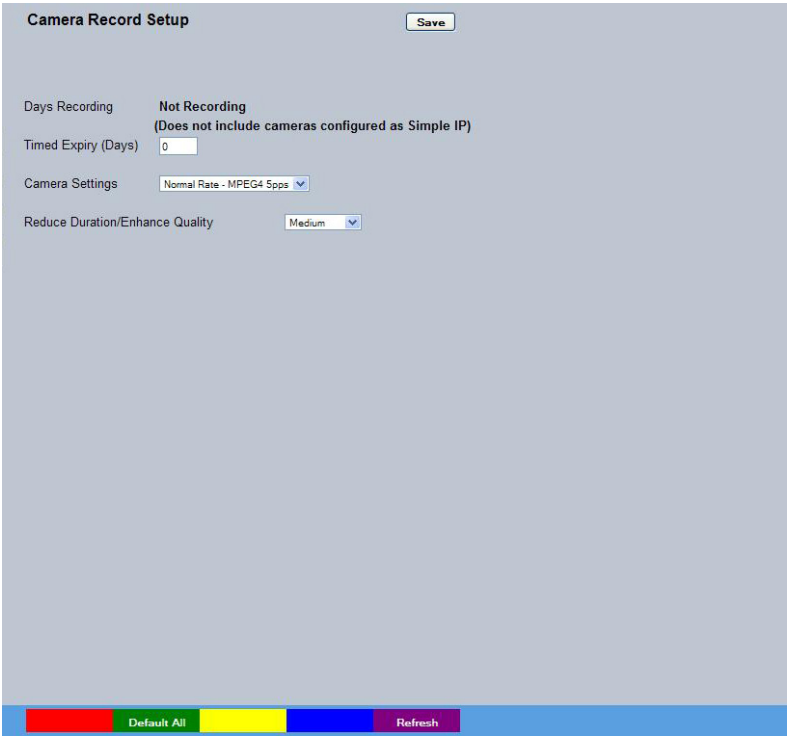
Days Recording	Displays the record duration possible using the current configuration.
Channel	Displays the Camera Name.
Unset/Set/Override Normal	Shows the recording profile used by the camera if no Timed Schedules are applied and the camera is operating under Normal (non Event) conditions, *refer to 'Schedule' for further information*.
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, JPEG or H264).
Res	Select image resolution format (4CIF, 2CIF, CIF or QCIF).
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.
Refresh (Purple)	Refreshes the current page.

Default

The unit has a range of pre-defined configurations available. As standard the unit can record at 5pps MPEG4 and at a selected number of days. Alternatively the unit can be configured for 2pps JPEG recording on each camera or for ***Multi****Mode operation (note that this will result in the record duration being determined by the time period the unit is in alarm).*

Note: *This page is only relevant if images are being recorded to the camera. If a DVR is being used, recording direct to the camera may be disabled.*

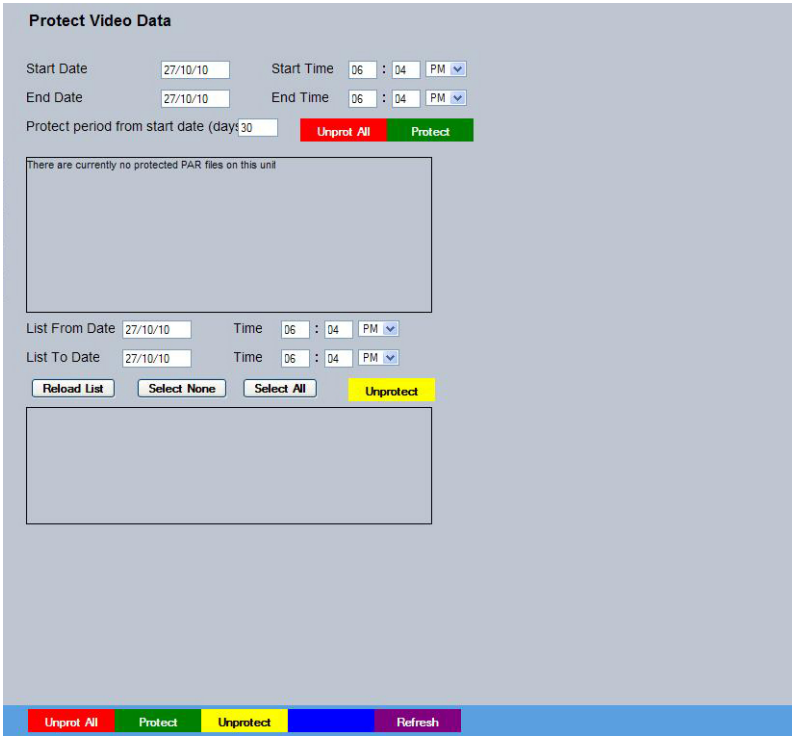


Days Recording	Displays the record duration possible using the current configuration.
Timed Expiry (Days)	If required, all stored recorded video can be permanently deleted after a set number of days. Set to '0' to de-activate this function.
Camera Settings	Choose the rate of non alarm recording to be used from the range of preset recording profiles. Select from Normal Rate-MPEG4 5pps, Normal Rate-JPEG 1pps or Normal Rate-**Multi***Mode* recording.
Record Duration/Enhance Quality	The recording duration can be limited to a set number of days; allowing the recording quality to be enhanced for a shorter storage period.
Default All (Green)	Restore record settings to factory defaults.
Refresh (Purple)	Refreshes the current page.

Protect Video

This menu allows the unit to automatically protect and retain recorded data in the camera. 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.

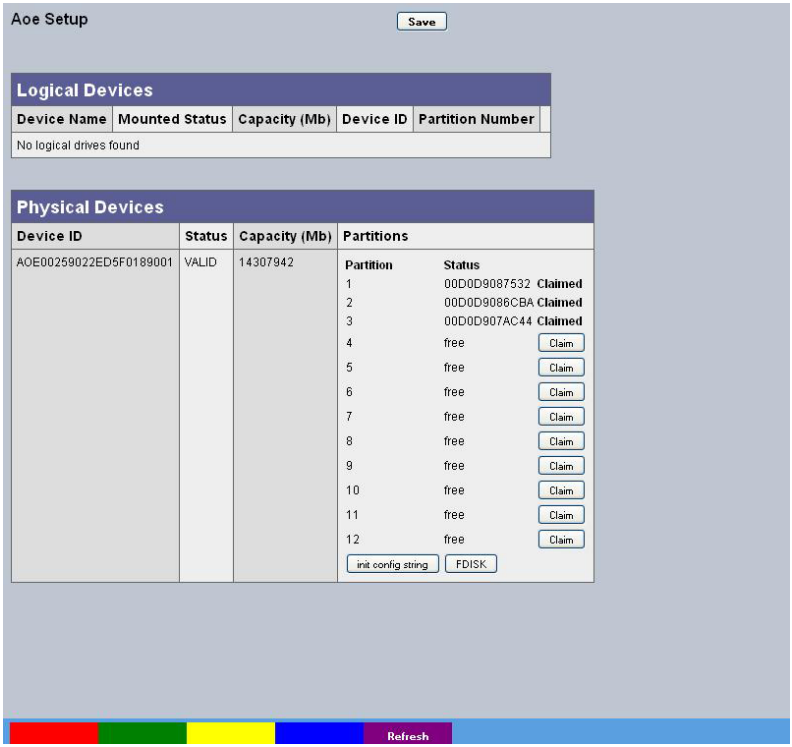


Start Date	Enter a start date to protect video.
Start Time	Enter a start time to protect video.
End Date	Enter an end date to protect video.
End Time	Enter an end time to protect video.
Protect Length (days)	Enter the number of days that selected files will be protected for.
Protect	Select this option 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.
Unprot all (Red)	Select to unprotect all recorded video from the list
Protect (Green)	Select to protect recorded video for the chosen time period
Unprotect (Yellow)	Select to unprotect recorded video for the chosen time period
Refresh (Purple)	Refreshes the information on the current page

AoE

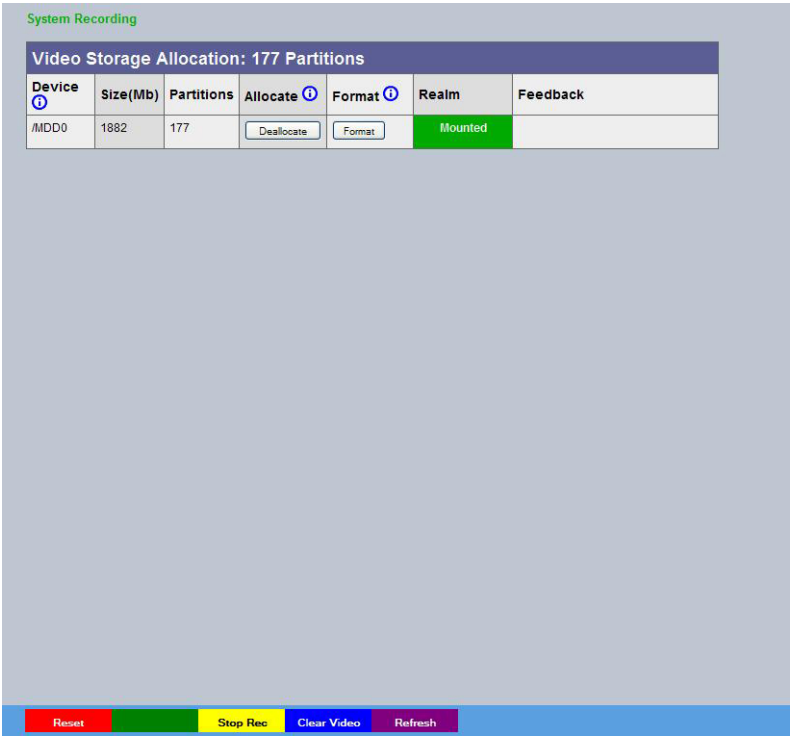
This menu allows configuration of the units ATA over Ethernet (AoE) function. AoE is a network protocol designed for simple high-performance access of storage devices over Ethernet networks. Importantly the external storage device must be located on the same network as the unit. AoE does not rely on network layers such as IP and TCP, making it non routable i.e. routers cannot be used to forward a packet across disparate networks. AoE packets can only travel within a single local Ethernet storage area network (adds a physical layer of security to the information). The stored video can only be accessed by plugging directly into an ethernet socket in the same LAN as the host. This means AoE cannot be accessed over the Internet or other IP networks, but makes AoE more lightweight (with less load on the host), easier to implement, provides a layer of inherent security, and offers higher performance.



Logical Devices	Connected AOE Devices - Any devices in this panel are being used by the unit to store data. They can be freed by clicking on the Release button.
Physical Devices	Available AOE Devices - Any devices in this panel are available on the network. They can be added to the storage capability of this unit by 'claiming' the storage. Unavailable storage is listed as Owned.Claimed storage capacity can be 'released' in the top panel.
Refresh (Purple)	Refreshes the current page.

Video Storage

The Video Storage Allocation table displays drives that are available for video recording. Entries with the prefix '/HDD0' indicate the units local hard drive (if installed), entries prefixed by '/udd0' are recordable media connected to the unit via USB sockets (if fitted), an entry prefixed by '/mdd' are installed SD cards.

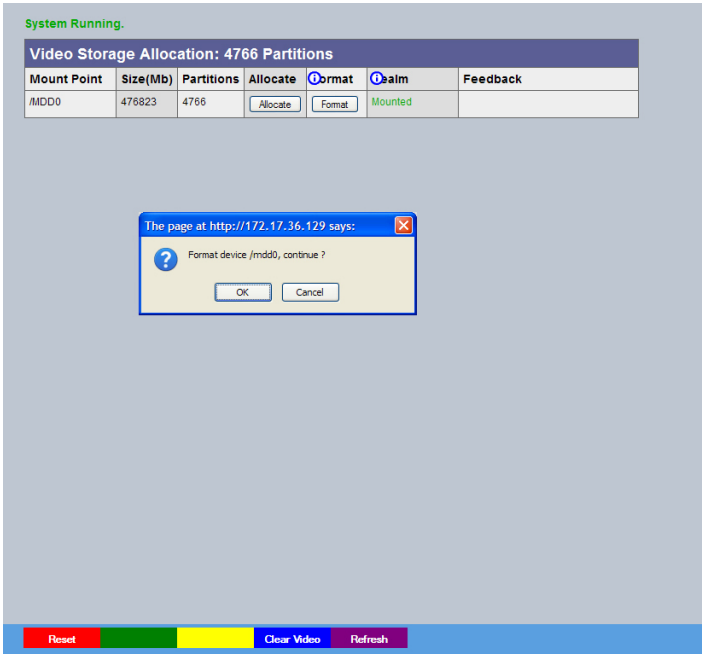


Device	Entries with the prefix '/HDDx' (from 0 upwards) indicate the units local hard drives (if installed), entries prefixed by '/uddx' (from 0 upwards) are recordable media connected to the unit via USB sockets, an entry prefixed by '/mdd0' is the installed SD card. Subsequent MDDx entries are for extra SD cards (where fitted).
Size	The device returns information when it is interrogated on connection to the camera, the size of the recordable media is amongst this data.
Partitions	The device returns information when it is interrogated on connection to the camera, the number of partitions is amongst this data.
Allocate	Formatted media can be allocated to the camera to allow it to be used for recording. DM recommends that media is formatted before allocation, even if if has been used previously for video storage.
Realm	Displays the status of the associated media.
Feedback	Displays messages about the progress of formatting/allocation of the media.
Format (Red)	Prepares the media for video storage, *refer to 'To format additional Video Storage'*.
Stop Rec (Yellow)	Suspends Recording on the unit

Clear Video (Blue)	Wipes the video from the drive to disable playback.
Refresh (Purple)	Refreshes the current page

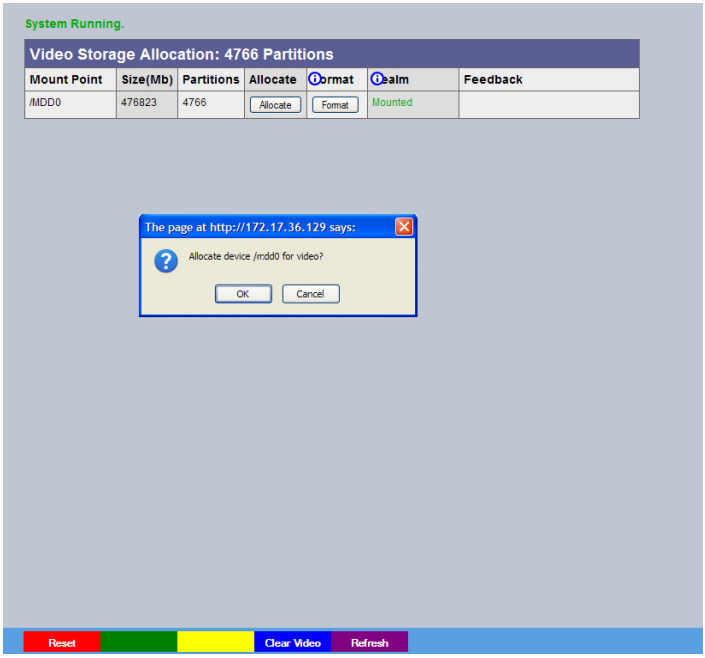
To format additional Video Storage

1. Plug a USB storage device into one of the available USB ports and click the purple Refresh button. The newly connected device will be displayed with a '/UDD' prefix. The SD card (if installed) will also be displayed and can be allocated in the same way. USB devices will be prefixed '/UDD', SD cards will be prefixed '/MDD'.
2. The device may require formatting. DM recommends the device is formatted even if it was previously been used as video storage. Click on the 'Format' button adjacent to the device listing to prepare the device for recording.



3. Allocate the formatted and mounted storage for video storage by clicking on the 'Allocate' button. Allocation takes between a few seconds and a few minutes, depending on the size of the drive, and the Feedback column will display information about the allocation process. The unit will require a Reset once allocation is complete.

Note: *The unit application drive is protected, if it is allocated the unit will only remove the video folder. Formatting any other device will remove all data. In either case recording on the system is halted while formatting and, if already allocated, the formatted device will be de-allocated as a video storage device*



The system displays a confirmation box to ensure the correct device has been selected. Click OK to confirm, then reboot the system. Once the unit has rebooted, the system will build the required PAR files ready for recording to commence, progress will be displayed in the Feedback column.

Note: *There will be a pause before recording begins, dependant on the size of the USB device as video partitions are built.*

Schedule

This menu allows the Timer Function names 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. The mode can be set by the DVR that the camera is connected to.

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.

IMPORTANT: *The Schedule menus **will not** be available when the unit is operating in Analogue mode.*

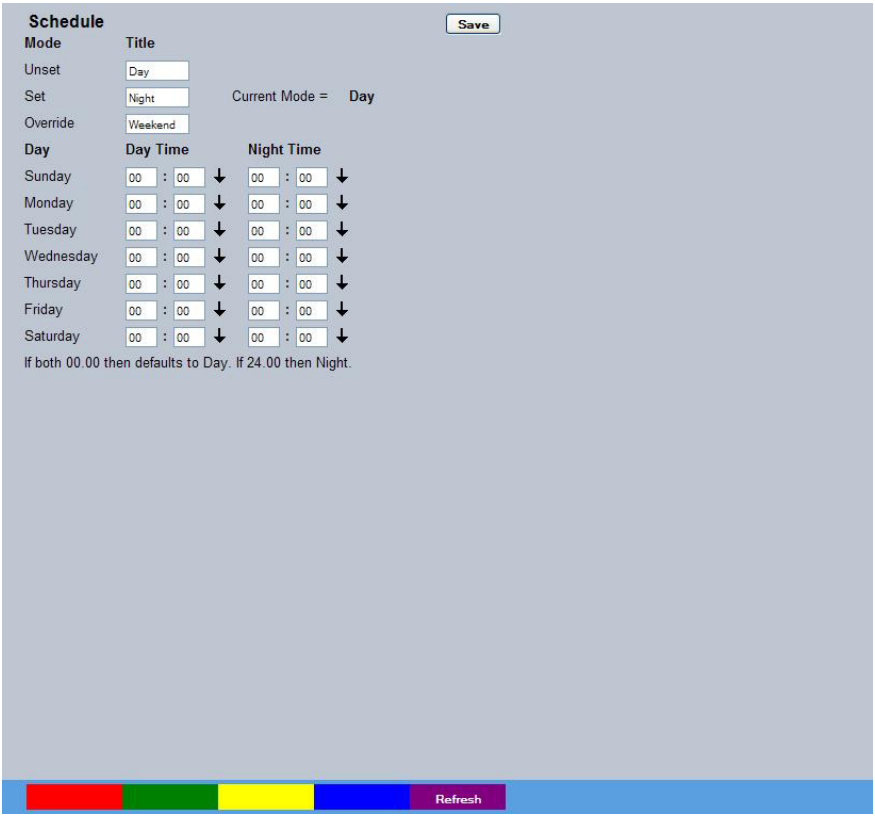
The Setup page allows configuration of the schedule including naming the modes of operation and controlling when the unit changes between modes.

The RVRC page allows a user to temporarily switch the unit's system state into set/unset/ override mode.

Setup

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

Combining when the unit is in Set or Unset mode with different recording qualities and rates under normal and alarm conditions gives a high degree of control in a range of situations.



Mode/Title — Enables a name to be entered for Unset, Set and Override mode.

Note: *Any changes to Mode titles here will affect the mode names displayed in the Profile Record, IP Record and Zone Input menu pages.*

Current Mode — Shows the current timer mode according to the names entered in the Mode/Title text boxes.

Day — Specifies which Day of the week is being configured

NOTE: *The next two descriptions utilise the standard name settings for the profiles (SET, UNSET). If these names have been changed on this page, these menu options will display the user configured names.*

UNSET Time — Specifies what time in format HH:MM the UNSET recording settings, configured on the Profile Recording page, will become operational

SET Time — Specifies what time in format HH:MM the SET recording settings, configured on the Profile Recording page, will become operational

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 all cameras below the clicked arrow.*

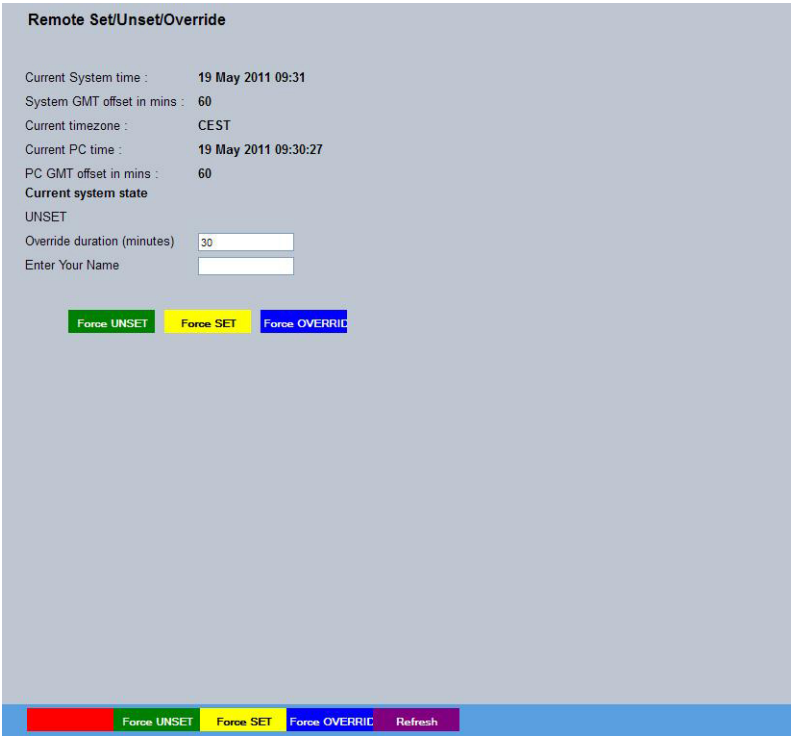
Note: *To disable one day, set both times to 00.00. To have the profile recording all 24 hours of a day, set both times to 24.00*

Refresh (Purple)	Refreshes the current page.

RVRC

This menu allows a user to temporarily switch the unit's system state into set/unset/override mode. The user will be required to enter their name and also the intended override duration. The action will be logged.

Note: *Refer to the Schedule menu for details of how to configure Set, Unset and Override modes: Record Settings->Schedule.*



Current System Time	The unit's current date and time information will be displayed. This will be logged with any override action.
System GMT offset in mins	Shows the number of minutes between the time in the time zone configured for the unit and GMT.
Current timezone	Displays the configured time zone for this unit, as set on the System->Time and Date page.
Current PC Time	The current date and time information of the PC currently being used to view the webpages will be displayed. This will be logged with any override action.
PC GMT offset in mins	Shows the number of minutes between the time as configured on the connected PC and GMT.
Current system state	The current system state will be displayed i.e. Set, Unset or Override.

Note: *The system state names displayed here will depend on those entered via the Schedule menu: Record Settings->Schedule.*

Override duration (minutes)	Enter a time period for the override procedure. After this time period, the system state will return to that configured via the Schedule menu (for the current time).
Enter Your Name	Enter your recognised user name. This will be logged.
Force UNSET(Green)	Select to switch to Unset mode.
Force SET (Yellow)	Select to switch to Set mode.
Force OVERRIDE (Blue)	Select to switch to Override mode.
Refresh (Purple)	Refreshes the information on the current page.

Alarm Settings

The Alarm Settings menus allow configuration of the unit's alarm functionality. Individual alarm inputs and alarm zones can be configured.

IMPORTANT: *The Alarm menus **will not** be available when the unit is operating in Analogue mode.*

The Contacts Action page allows configuration of Profile change, Alarm Reporting and Database Entry when a contact is triggered.

The Masked Camera Det(ection) page allows cameras to be enabled for 'masked' detection based on a threshold contact value and dwell time.

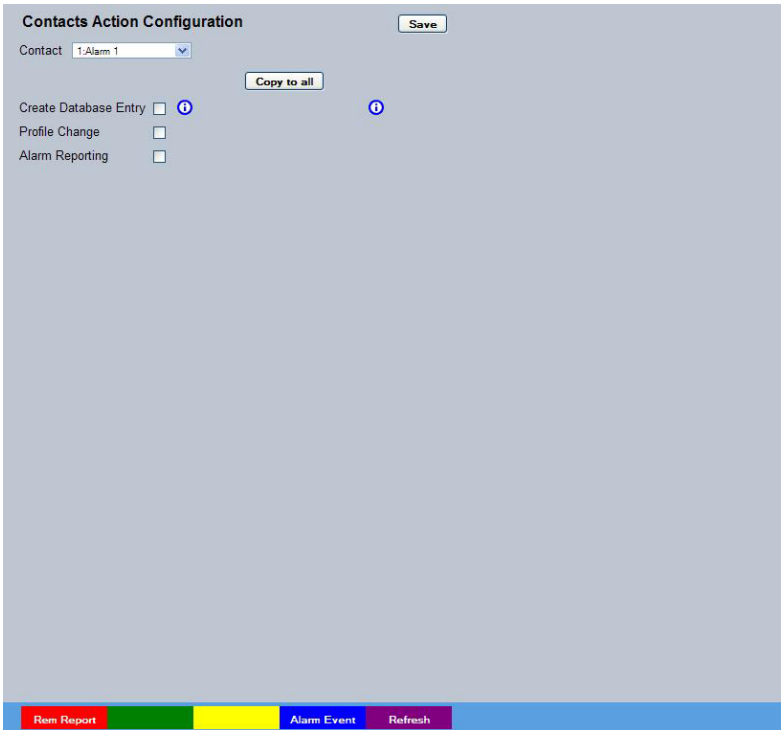
The Alarm Response page enables configuration of responses following an VMD/Activity Detection trigger.

The Activity page allowed activation and configuration of the Activity feature on all video inputs. The Activity feature enables cameras to automatically detect any movement/changes within the video scene. This can trigger a number of operations such as FTP alarm notification or an increase in the recording rate.

The VMD page enables the unit's VMD (Video Motion Detection) to be set-up. VMD allows a camera to automatically detect if there is any movement/changes within specific areas of the video scene.

Contacts Action

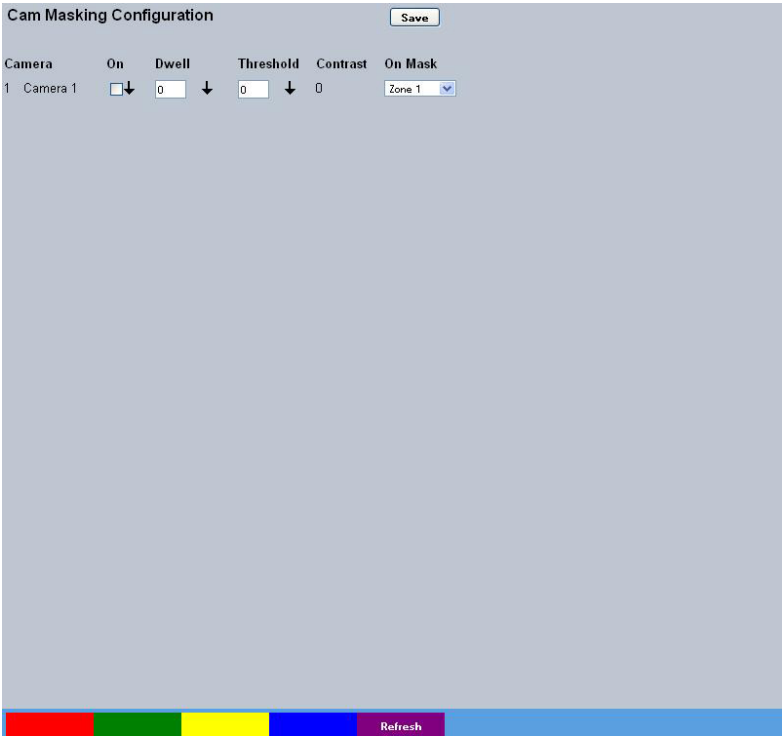
The Contacts Action page allows configuration of Profile change, Alarm Reporting and Database Entry when a contact is triggered.



Contact	Select a Contact to configure.
Copy to All (Grey)	Select to copy the configuration to all subsquent Contacts.
Create Database Entry	An alarm activation will be added to the database. The alarm title will be used as part of the entry information.
Profile Change	Select to enable the unit to switch from Normal to Event recording following alarm activation.
Alarm Reporting	This must be enabled to allow the unit to send an alarm notification to an external destination i.e. an RVRC.
Rem Report (Red)	Select to open the Network->Remote Reporting menu
Alarm Event (Blue)	Select to open the Camera->Dome Settings->Event menu
Refresh (Purple)	Refreshes the information on the current page

Masked Cam Det

The unit has the capability to identify if a video input has been covered (by hand, spray paint, etc.) to prevent video images being viewed and recorded. The Camera Masking option takes the input levels of contrast and compares these against a user defined minimum contrast level. If the video input goes below this user defined level an event is generated on the unit.



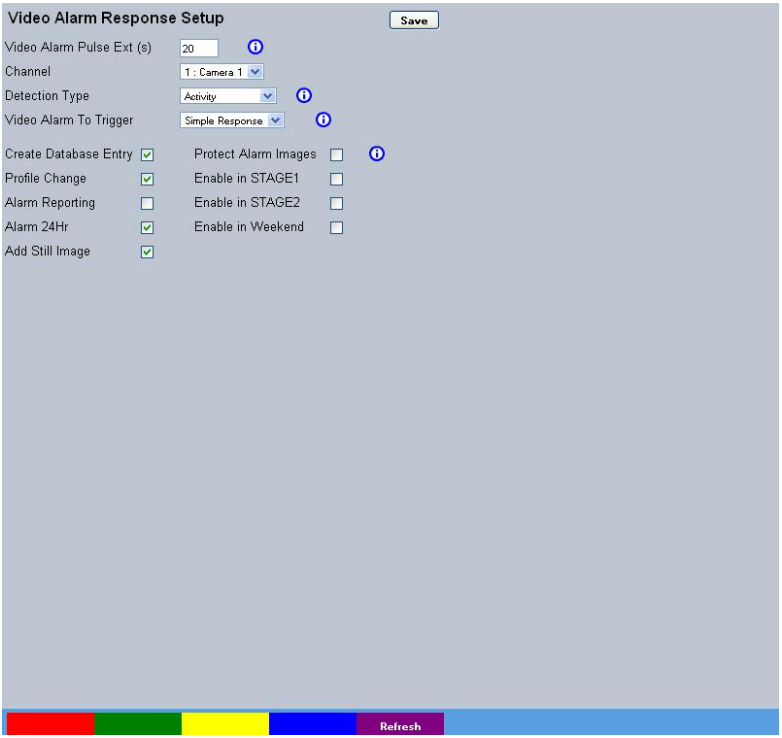
Camera	Displays the camera number and camera title as configured on the Camera Setup page.
On	Enables or disables the feature on the camera.
Dwell	This is the delay the unit will wait before declaring the camera is masked.
Threshold	Defines the threshold the system uses to define that a camera is masked. It will be necessary to adjust this figure to avoid false alarms.

Note: *In low light conditions, enter a figure below the contrast threshold (see below). Experiment with camera masking alarm activation until a figure is found that avoids false alarms.*

Contrast	Defines the contrast threshold the system uses to define that a camera is masked. Different cameras have different characteristics.
On Mask	Select the alarm that will be activated on camera masking.
Refresh (Purple)	Refreshes the information on the current page

Alarm Response

This menu enables response configuration following an alarm trigger on a selected camera channel.



Video Alarm Pulse Ext (s)	The pulse extension extends the trigger period to avoid double triggers occurring, i.e. If a second incident is received, after the first alarm is finished but within this period, the unit will not create a new event.
Channel	Select the camera input for configuration from the drop down list.
Copy To All	Select to copy the current Activity Response settings to all camera channels.
Detection Type	Each camera input can be configured for either 'VMD' or 'Activity' detection. To assign no detection settings to the camera, select 'None'

Note: *Whichever Detection option is selected here, will result in the camera channel being only available for editing in the relevant configuration menu i.e. if Activity is selected for Channel 1; this channel can only be edited for Detection in the Activity Setup menu and not the VMD Configuration menu.*

Video Alarm To Trigger	Select 'Simple Response' to trigger specific chosen responses from the options detailed below.
Create Database Entry	When selected, an alarm entry will be added to the Event database.
Profile Change	Select to enable the unit to switch from Normal to Event recording following alarm activation.
Alarm Reporting	This must be enabled for the unit to automatically connect on alarm.
Alarm 24Hr	This will ensure that Activity Detection is permanently enabled on this camera channel.

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.
Protect Alarm Images	Select to automatically protect alarm images from being overwritten.
Enable in Unset	This will enable Activity Detection when the unit is in Unset operation mode.
Enable in Set	This will enable Activity Detection when the unit is in Set operation mode.
Enable in Override	This will enable Activity Detection when the unit is in Override operation mode.

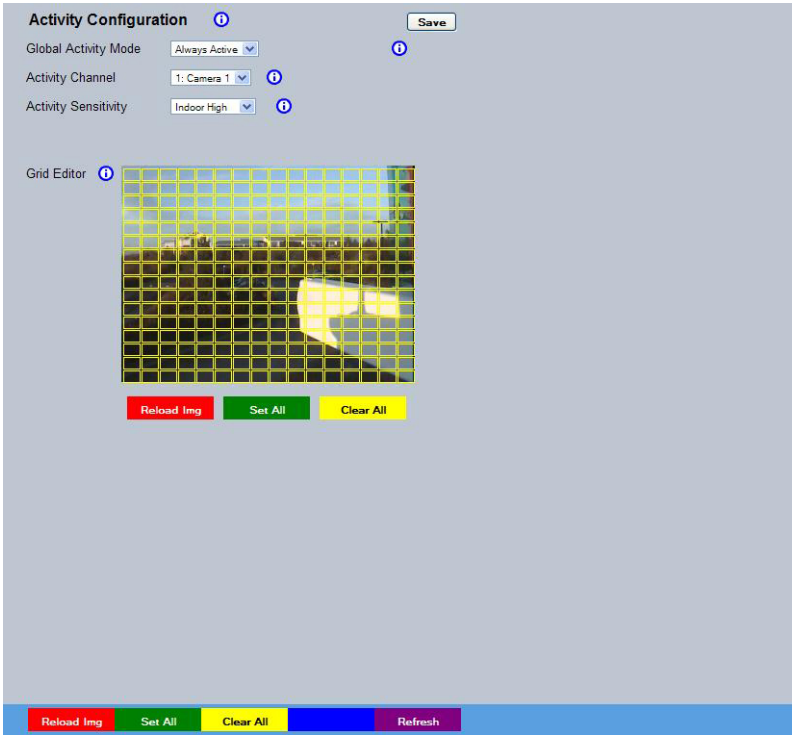
Note: *Unset, Set and Override modes can be given more recognisable titles i.e. Day, Night, Weekend via the Schedule menu (Record Settings->Schedule).*

Refresh (Purple)	Refreshes the information on the current page

Activity

The unit supports Activity Detection to enable the camera to automatically detect any movement/changes within the video scene; this can trigger a number of operations such as FTP alarm notification and an increase in recording rate. A still image of the selected camera will be shown in the Grid Editor screen. To establish an Activity zone, edit the cells displayed across the image.

This option should be used in conjunction with the Alarm Response page.

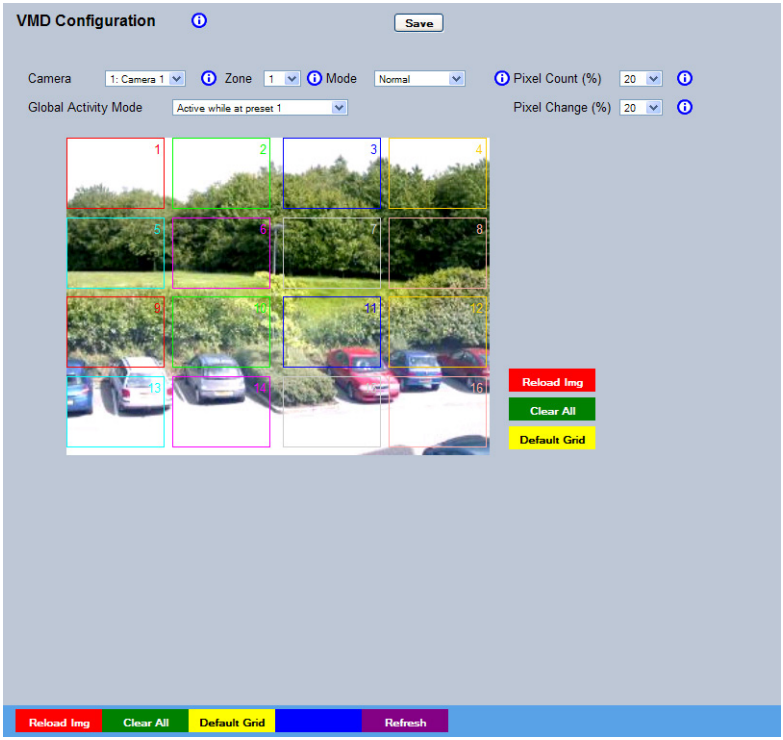


Global Activity Mode	Select 'Always Active' for Activity mode to be in constant operation.
Activity Channel	Displays the images from the corresponding video source.
Activity Sensitivity	This option allows the sensitivity setting to be established for the activity grid being configured. There are five settings to choose from: Indoor High, Indoor Low, Outdoor High, Outdoor Low, Very Low.
Grid Editor	Use the Grid Editor by placing cells in areas of the camera view where movement will trigger an alarm by clicking the mouse on the grid cells to enable/disable.
Reload Img (Red)	This option will update the still image displayed in the Grid Editor.
Set All (Green)	This option will insert a default square of 16 x 16 cells across the displayed video image.
Clear All (Yellow)	This option will clear all entered cells.
Refresh (Purple)	Refreshes the current page.

VMD Configuration

The unit supports VMD (Video Motion Detection) on all video inputs and allows cameras to automatically detect if there is any movement/changes within the video scene.

Note: *Video Motion Detection enables a greater degree of control over detection settings and configuration than the Activity Setup function. Each of the 16 VMD Zones can be directly sized and configured to suit specific requirements. VMD can only be accessed and configured remotely via the webpages.*



Camera	This is a drop down list of the video inputs on the unit, selecting one of the inputs will display the corresponding video source. Ensure this corresponds with the selected Channel.
Zone	There are 16 VMD zones within the image that can be individually configured, select the zone from the drop down list. A selected zone can be re-sized by clicking the mouse button (use the USB mouse if viewing on a local monitor) and then moving and clicking the mouse again. A rectangle will then be displayed based on these two selected points.

Mode	The zone mode controls when the reference image is taken for triggering VMD. The options are: Normal - The reference image is updated approximately every second. This will only allow small changes in the scene without triggering. Last trigger - The reference image is only updated when the VMD is triggered and is best used under controlled lighting, i.e so there are no false triggers due to ambient light changes. Static - The reference image is collected on startup and is never updated. This would be used in 'sterile' areas where there are no changes expected. Zone disabled - This will disable the zone mode.
Pixel Count (%)	This value is set as a percentage and equates to the percentage of pixels in the selected zone that must change for the VMD event to be triggered. The default setting is 20%.
Pixel Change (%)	This setting is a percentage value of the overall change required in the grayscale to be included in the pixel count. The percentage change is defined over the complete range of black to white, a 100% pixel change would be from black to peak white. The default setting is 20%.
Global Activity Mode	Three options are available for Activity activation (specifically in relation to a PTZ camera). Selecting 'Active while at Preset 1' will result in Activity mode functioning only when the camera is at preset position 1. Select 'Active while camera not in motion' for Activity mode to function only when the camera is still. Select 'Always Active' for Activity mode to be in constant operation.
Reload Image (Red)	This will update the reference image to the latest view during set up.
Clear All (Green)	Removes all defined zones from the image.
Default Grid (Yellow)	Displays the default 16 zone grid across the whole image.
Refresh (Purple)	Refreshes the information on the current page.

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. Email, remote reporting on alarm and FTP download can also be configured. Refer to the individual menus for further details.

IMPORTANT: *The Network menus **will not** be available when the unit is operating in Analogue mode.*

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

The Live Trans(mission) 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 Multicast page allows recordings from the unit's camera inputs to be forwarded to a port address; enabling multiple viewers to view live data using a suitable media player without the need to directly connect to the unit.

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

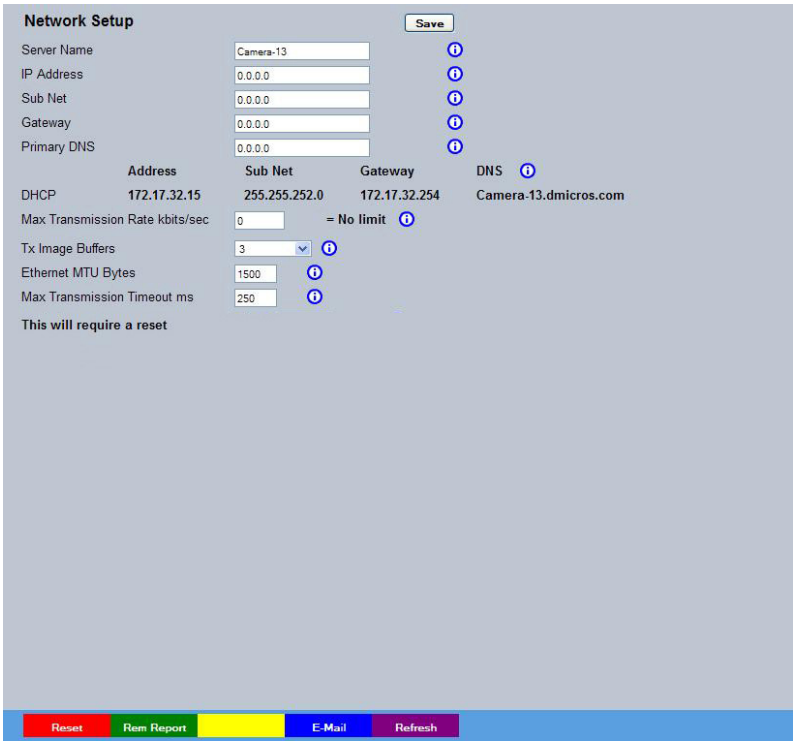
The Remote Reporting page allows a Remote Video Receiving Centre's (RVRC) configuration details to be entered. The RVRC will then be contacted following a selected event occurring i.e. reported alarm or camera failure.

The FTP Download page allows data to be archived to a central FTP server. This could be on receipt of an alarm, Activity activation or at a scheduled time to back-up recorded video.

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

Network

This menu allows network settings to be configured if required. The unit is DNS compliant, and can be referenced on the network using the configured server name (or serial number) if a DNS server is available .



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).It will initially default to the serial number of the unit.
IP Address	An IP address can be manually allocated to the unit.
Sub Net	A Subnet address of the unit network can be manually allocated.
Gateway	This is the IP address of the default gateway (router).
Primary DNS	This is the primary DNS server IP address for applications utilising domain names.
DHCP	If DHCP is being utilised, the assigned IP address will be displayed here.

Note: *If no IP address is manually configured, DHCP will automatically assign one. The unit interrogates the network for a DHCP server, which assigns an available IP address. This IP address can change every time the unit is powered up. If DNS is not available, it is recommended that DHCP be disabled by entering a suitable, free, static IP address.*

Tip*: Use DHCP to locate a free IP address, then fix the unit IP address to the free one by entering the details into the IP address, subnet and gateway fields.*

Max Transmission Rate kbits/sec	This shows the maximum transmission speed for the network type being used. If set to '0', transmission speed is not limited in the camera.

Note: *This setting will limit and override any higher transmission rate entered in the Video Transmission menu (Configuration menu->Live Trans).*

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 (default setting is 1).
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.
Max Transmission Timeout ms	This is the time (in milliseconds) the unit will wait to re-send a packet if an acknowledgement is not received.
Reset (Red)	Select to reboot the unit.
Rem Report (Green)	Opens the Network Settings->Remote Reporting page.
Email (Blue)	Opens the Network Settings->Email page.
Refresh (Purple)	Refreshes the current page.

Live Trans

The unit transmits live images using JPEG or MPEG formats.
The NetVu ObserVer 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.
PPS	This shows the number of pictures transmitted per second. 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 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 I Frame Ratio option (below).
MPEG Quality	The Quality of the MPEG data transmission can be set from CBR (Constant Bit Rate) to High 32. A higher quality setting may result in a lower transfer speed.
I Frame Ratio	Select the number of I Frames recorded between each P Frame.

Note: *An MPEG I-frame is considerably larger than a P-frame. The higher the IP ratio, the larger the disk space required to store recorded images.*

Refresh (Purple)	Refreshes the information on the current page

Multicast

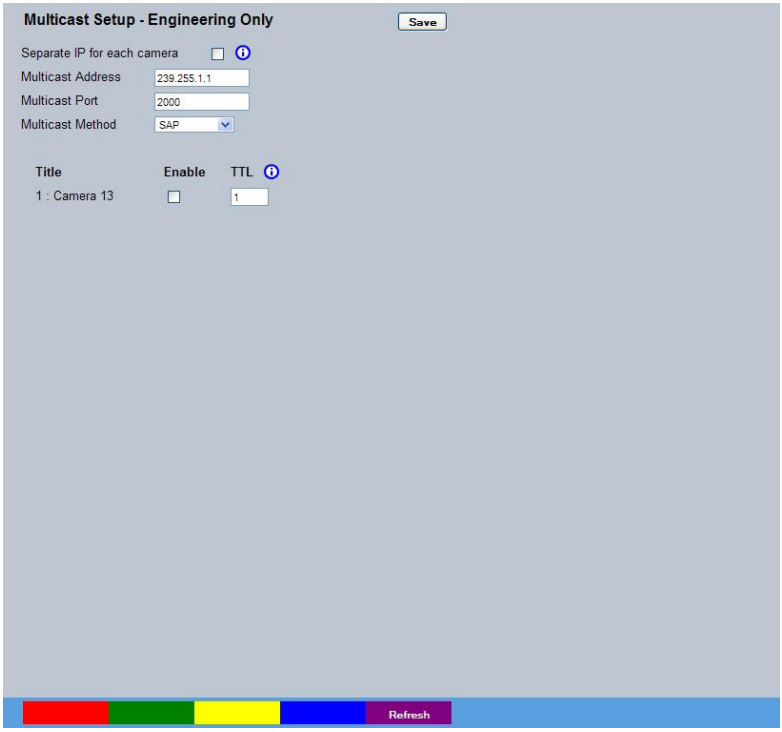
The Multicast page allows video from the unit's camera inputs to be forwarded to a port address, enabling multiple viewers to view live data using a suitable media player without the need to directly connect to the unit. In multi viewing scenarios, the demands on the unit are significantly reduced, improving overall performance.

This system has been validated using the 'Videolan VLC media player for MS Windows.
The Videolan VLC media player can be downloaded free of charge from:

www.videolan.org/vlc/download-windows.html

Please refer to Appendix D for guidance on configuring the Videolan VLC media player.

Note: *Multicast can only used for live viewing, requests for stored images and events will still need to be made via the Viewer menu.*



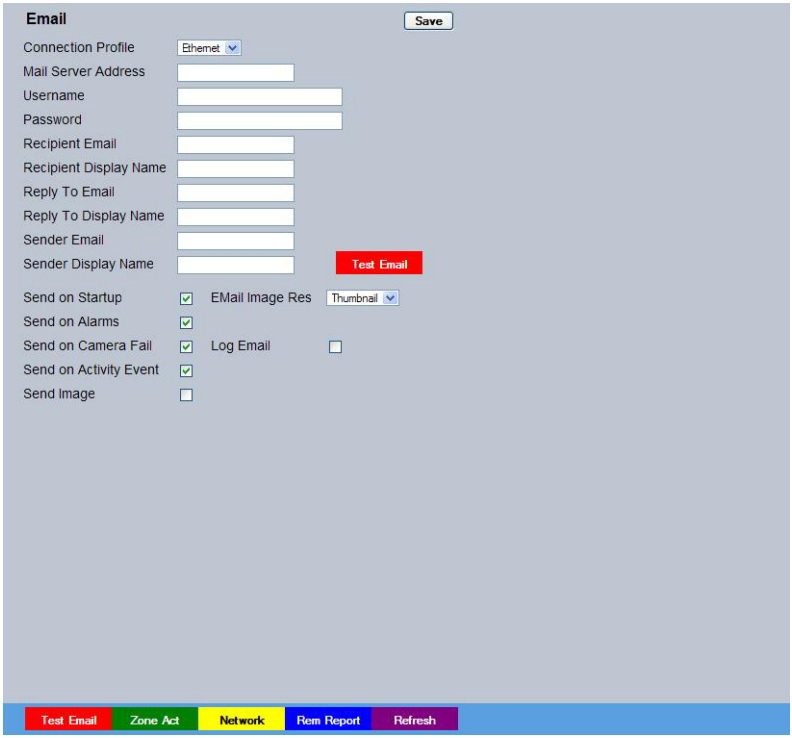
Separate IP for each camera	Select to transmit each camera with a different multicast address and the default port number.
Multicast Address	Assign a unique IP address. This address is not assigned to any 'physical' unit. The VLC program will use this address (when configured to do so) as its multicast group and access any broadcast images via the configured port address (see below). If there are multiple units using multicast, each one must have a unique IP address.

Multicast port	Following configuration of the IP address, configure the port address. The address will default to 1234.
Multicast Method	Select the multicast forwarding method. Select from 'SAP' (to use session announcement protocol operation), 'HTTP' (to use cgi control operation) or 'SAP+HTTP' (both methods used simultaneously).
Enable	Tick this option to enable multicast.
TTL (Time to Live)	This option can be configured to limit which users can access the images. Enter one of the following numbers: 0 - restricts video to the same host 1 - restricts video to the same subnet 32 - restricts video to the same site 64 - restricts video to the same region 128 - restricts video to the same continent 255 - is unrestricted in scope
Refresh (Purple)	Refreshes the information on the current page

E-mail

The unit can automatically transmit an email 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 email if any of these conditions occur.

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



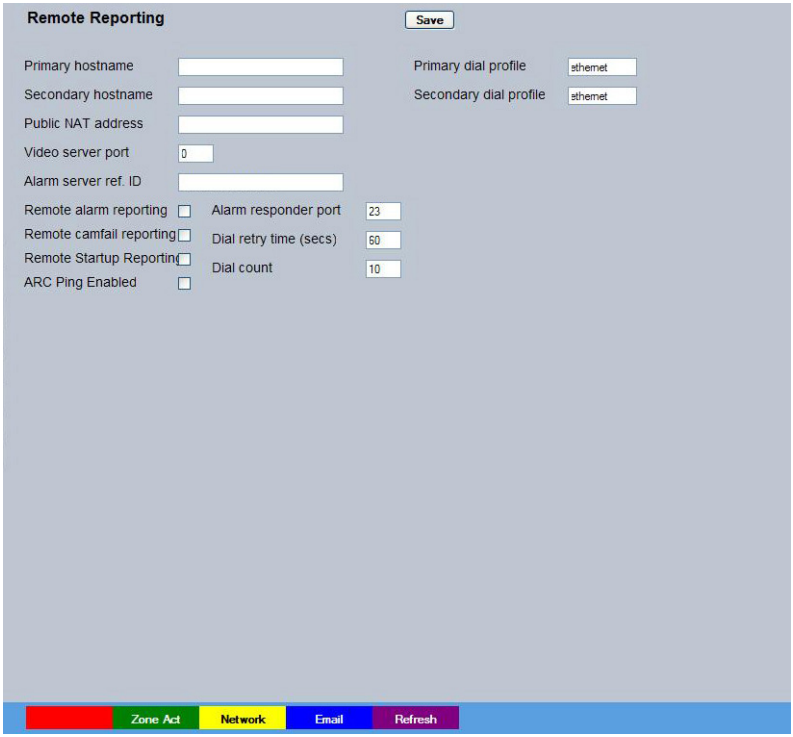
Connection Profile	It is possible for the email to be transmitted via the Ethernet network. This setting presumes that the unit is connected to a LAN or WAN and allocated a valid IP address.
Mail Server Address	This is the IP address or URL of the SMTP Server that the email will be sent to. The SMTP server will then forward this to the intended recipient.
Username	Enter the login details for the email account used above.
Password	Enter the login details for the email account used above.
Recipient Email	This is the email address of the intended recipient.
Recipient Display Name	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 email. The unit does not accept incoming emails therefore ensure this is a valid email address.
Reply To Display Name	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 email notification. If the fields are left blank the unit will use the system name to create a sender name.
Sender Display Name	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 the image from configured primary camera associated with the triggering alarm.
Email Image Res	Select the resolution settings for the image sent as an attachment in the Email. Choose from: Thumbnail, LO (low res), MED (medium res) and HI (high res).
Log Email	Select this to add every email transaction that the unit issues to the email log.
Test Email (Red)	Select to send a test Email to configured recipient
Zone Act (Green)	Select to open the Alarm->Zone Actions menu
Network (Yellow)	Select to open the Network->Network menu
Rem Report (Blue)	Select to open the Network->Remote Reporting menu
Refresh (Purple)	Refreshes the information on the current page

Remote Reporting

This menu allows configuration of the settings to enable 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 -> Features -> System menu.*



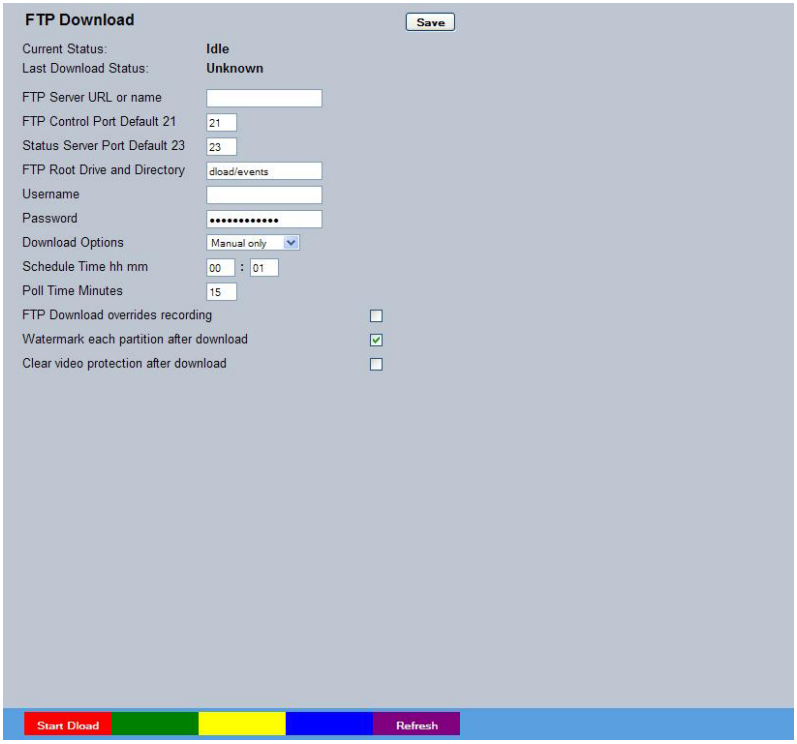
Primary Hostname	This is the IP address or URL of the initial host that the unit will transmit an alarm message to.
Primary Dial Profile	It is possible for the alarm message to be transmitted via the Ethernet network or a dial up connection.
Secondary Hostname	If the unit is unable to contact the primary host, an alternative route can be identified via a secondary host. If there is only one alarm receiving IP address, you must enter the same 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) 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 forwarding 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 specifies 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.
Zone Act (Green)	Select to open the Alarm->Zone Actions menu
Network (Yellow)	Select to open the Network->Network menu
Email (Blue)	Select to open the Network->E-mail menu
Refresh (Purple)	Refreshes the information on the current page

FTP Download

The unit can archive images to a central FTP (File Transfer Protocol) server. This could be on receipt of an alarm, activation of the Activity Detection or at a scheduled time to backup recorded video. Using FTP in a multi-unit application ensures that all files are stored in one central location for each of the units, offering efficient file management and easy review capabilities.

Note: *This menu will only be displayed if 'Automatic FTP Download' is selected in the System -> Features -> Network menu.*

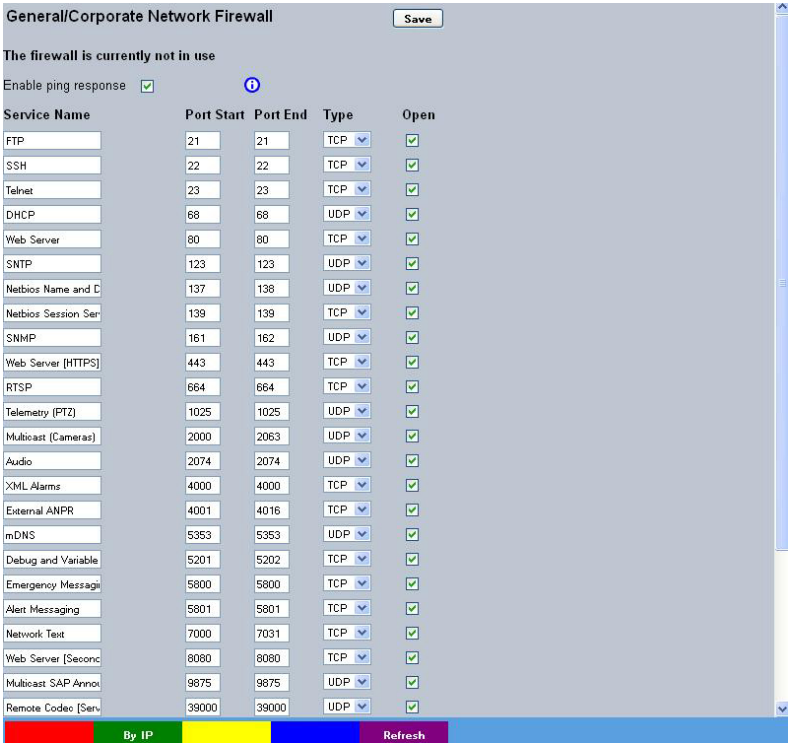


Current Status	Displays the status of the FTP function.
Last Download Status	Displays the progress of an active FTP transfer.
FTP Server URL or name	This is the IP address, URL or name of the FTP server the unit will connect to for FTP image download purposes.
FTP Control Port Default 21	The default port for FTP use is port 21. If this port has already been allocated on the network, it is possible to identify and allocate an alternative port.
Status Server Port Default 23	The default port for the Server Status function is port 23, if this port has already been allocated on the network, it is possible to identify and allocate an alternative port number.
FTP Root Drive and Directory	This is the directory where the images are to be stored, it is recommended that a name associated with the unit be used for ease of retrieval.

Username	If it is necessary to use an authentication process to access the FTP server, enter the relevant username here.
Password	If it is necessary to use an authentication process to access the FTP server, enter the relevant password here.
Download options	Select one of the following options from the drop down menu: On Connection – This will automatically start the Archive download when the unit detects the archive destination is present. Scheduled – It is possible to force the unit to archive images at a scheduled time, enter a time to activate this function each day. Polled – This will set the unit to activate archive download at regular intervals, the time is in minutes and is the period between the end of one archive download and the start of the next. Manual only – The archive process will only commence when the user initiates the action.
Schedule time hh mm	If 'Scheduled' has been selected in Download Options, enter a time for the download to take place each day.
Poll time Minutes	If 'Polled' has been selected in Download Options, enter the number of minutes which will elapse between the conclusion of one archive download and the start of the next.
FTP Download overrides recording	When selected, recording is suspended until the FTP process has completed.
Watermark each partition	This enables a watermark to be generated and stored in a text file downloaded with the video to the FTP server (for each image partition). This watermark is logged in the log file.
Clear video protection after download	This automatically clears the image protection from successfully downloaded images.
Start Dload (Red)	Initiates the download process
Refresh (Purple)	Refreshes the information on the current page

Firewall

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



Enable Ping Response	Enabling this option will allow an external client to receive a response when attempting to 'ping' the unit. Disabling this option will make the unit less visible on the network.
Service Name	Up to 32 Configuration settings may be entered.
Port Start / Port End	Enter a start and end point for the 'open' port range. If a host tries to communicate with the unit using a TCP/UDP port that is not within the 'open' range (even with a valid IP address), access will not be granted to the unit. The enabled ports can be a range or single port address, if a single port is needed then enter the same port number in the Start and End options.
Type	Select either TCP or UDP port types.
Open	Select to open (enable) the configured port range.
By IP (Green)	Select to open the Firewall Access by IP menu
Refresh (Purple)	Refreshes the information on the current page

Text

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

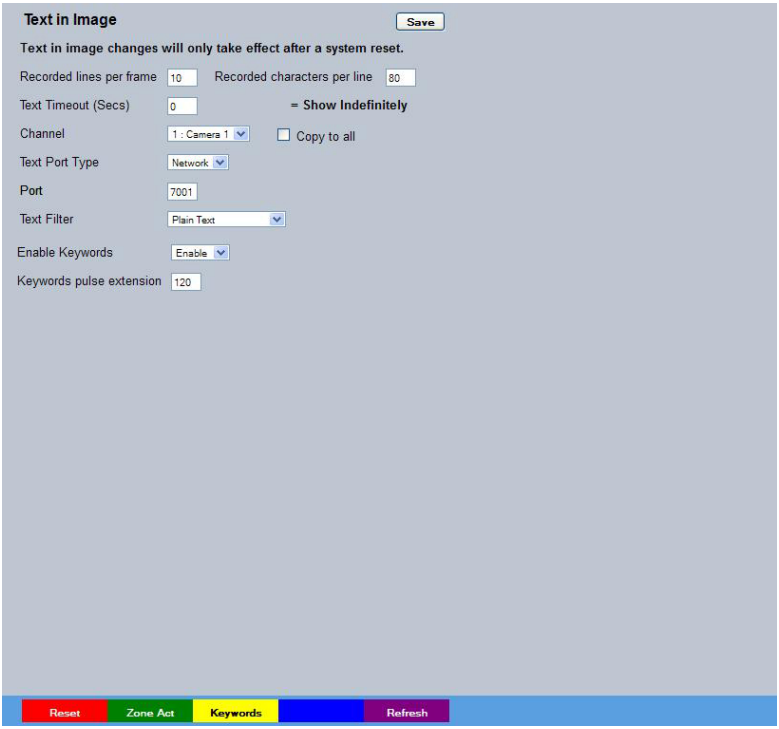
The Text In Image page allows the unit to integrate text data with recorded images i.e. a cash register with a camera positioned at the point of sale.

The Keyword page can be used in conjunction with the Text in Image function. A Keyword can be entered, which when detected, will trigger an alarm.

Text In Image

It is possible to integrate the unit into a system were text information can be stored with relevant images for review. This would be most useful in a Retail or Finance application were text data originating from a cash register could be displayed in real time with the video images of the same Point of Sale.

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

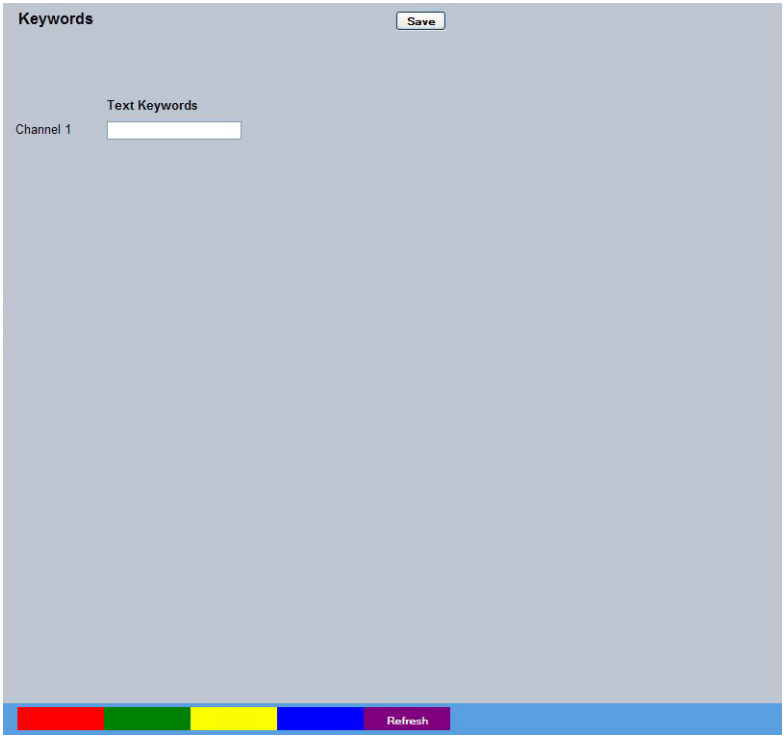


Recorded lines per frame	This controls how many lines of text are stored on the server, and not how many are displayed on screen. This allows more data to be saved than is shown.
Recorded characters per line	Controls the width of the lines displayed on screen.
Text Timeout	This setting controls how long, in seconds, the text is shown onscreen (selecting 0 will show the text indefinitely).
Channel	Select the camera input for configuration from the drop down list.
Text Port Type	Select the input source for Text in Image data. Select 'Off' to switch the function off or 'Network to use the unit's Network port
Text Filter	Select the text filter option from the drop down list. The options are: Plain Text (default), RAW, EPSON, Laserjet, DM POS Receipt, DM POS Journal, TVC-1066
Enable Keywords	Enabling the Keyword feature, allowing the unit to treat certain pre-programmed words received via the text stream as event triggers, refer to 'Keywords' for guidance on creating Keyword triggers.

Keywords Pulse Extension	This feature allows multiple instances of a word received within a period of time to be treated as a single event (i.e. if a configured Keyword is detected again within the first Keyword's pulse extension period, the second occurrence of the word will be ignored).
Reset	Select to reboot the unit and apply changes.
Zone Act (Green)	Opens the Alarm Settings -> Zone Actions page.
Keywords (Yellow)	Opens the Features & Text -> Text -> Keywords page.
Refresh (Purple)	Refreshes the current page

Keywords

This menu allows a specific keyword received via the text stream to be configured and enabled as an event trigger. The 'Enable Keyword' function needs to be activated in the 'Text in Image' menu for this feature
to operate.



Text Keyword	The unit can be configured to react to a keyword appearing in text data and treat it as an alarm zone input. In turn this generates events in the event database. The keyword can be up to 20 characters in length. The keyword will be active on the selected Zone keyword channel, *refer to "Zone Input - Input".*

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

Refresh (Purple)	Refreshes the current page

Diagnostics

The Diagnostics menus gives engineers the ability to quickly and accurately diagnose any problems with the unit. This menu will normally only be used on a Technical Support call.

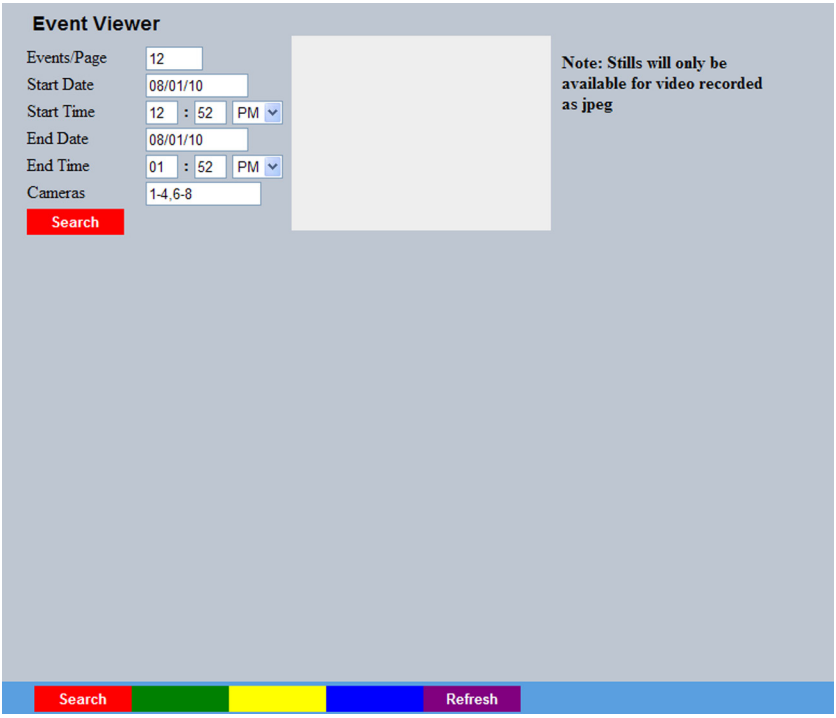
***MPORTANT:** The Diagnostic menu **will not** be available when the unit is operating in Analogue mode.*

Event Search

The Event Search menu allows recorded event images to be quickly searched for and reviewed. The Search criteria can be limited to a specific date/time and/or individual cameras.

IMPORTANT: *The Event Search menu will not be available when the unit is operating in Analogue mode.*

Note: *Event Search will only be available in IP mode when the 'Enable Event Search Page' option is enabled via the System->Features menu.*



Event/Page	Select the amount of event Stil images (thumbnail size) to be displayed per results page.
Start Date	Enter a Start Date for the Event Search.
Start Time	Enter a Start Time for the Event Search.
End Date	Enter an End Date for the Event Search.
End Time	Enter an End Time for the Event Search.
Cameras	Select the camera channel(s) to be included in the Event Search. A range of cameras can be selected by entering a hyphen between the first and last required camera i.e.1-8. A selection of individual cameras can be chosen by entering a comma between each camera i.e. 1,3,5,8. Events captured by cameras not in this selection will be ignored.
Search (Red)	When the Event Search parameters have been entered, select 'Search'.

Event Search Results

After selecting 'Search' (Red), a still image of each captured event (within the chosen search criteria) will be displayed. It may be necessary to scroll through the results pages to view all events. if the number of events exceeds the events displayed per page (configured in Event/Page).

Click on the thumbnail image to playback an event. That event will then playback in the window at the top of the menu.

Note: *To zoom into the event currently in playback mode, right click it with the mouse. The 'Set Zoom Level' option will be displayed. The image can be set to display at up to 800% of its recorded size. Note that the view window will not increase in size, use the scroll bars to navigate the enlarged image.*

IMPORTANT: *Still event images will only be available for video recorded in JPEG mode (MPEG4 thumbnail Stills will appear 'blank'); however event data recorded in either JPEG or MPEG4 mode can be replayed.*

Unit Operation

The unit can be viewed and accessed remotely when in IP mode via the webpages and the 'Viewer' menu option.

Operating the Viewer

Navigation is via a colour coded softkey system. The coloured menu provides an intuitive approach to operator and installer use. The coloured keys on the IR Remote Control correspond to the menu options displayed on screen.

Note: *The screen images shown throughout this section are those displayed on a web page.*

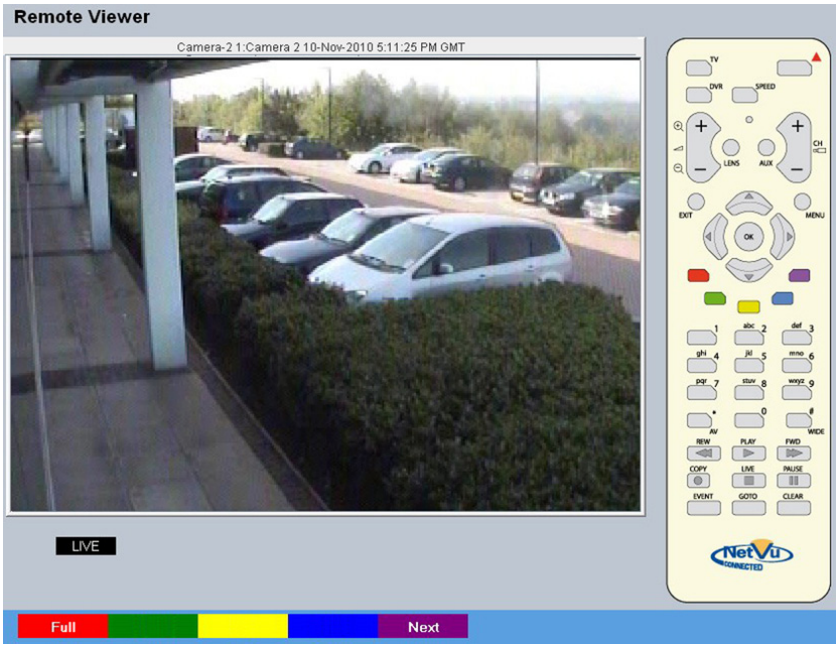
The function of the keys will change according to whether the unit is in Live or Playback mode.

The available Viewer menu pages are described on the following pages. To display the colour coded menu options, press the OK button on the IR Remote Control (if the IR detecoter is active) or click the mouse button.

The Viewer is only available when the dome is configured in IP mode, Analogue domes can be viewed using the viewer function on the DVR it is connected to.

View Control

The View Control page allows connected video inputs to be displayed full screen or in Quad/Multi way display format.

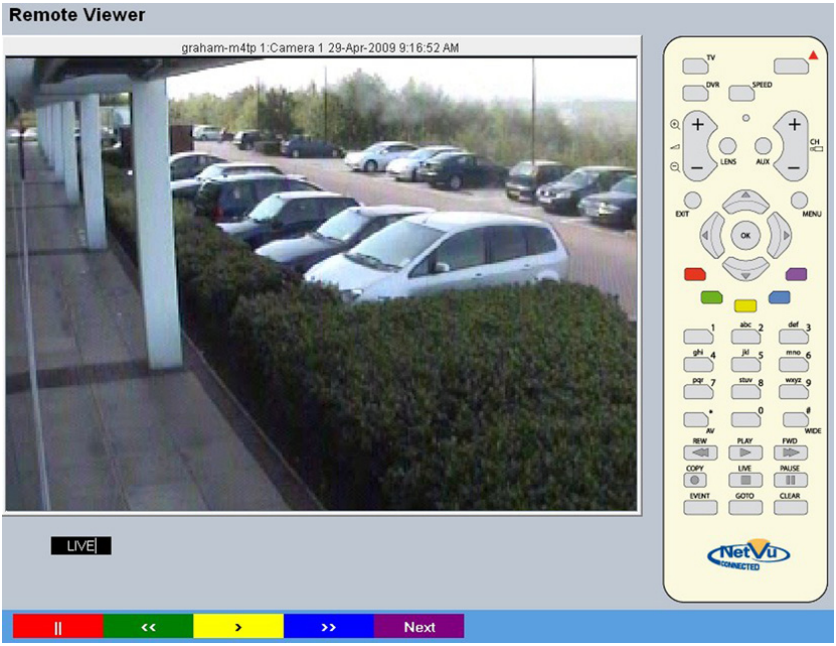


Red	Full	Show currently selected camera full screen.
Purple	Next	Opens the next page of the Viewer menu.

Note: *For information on creating Camera Selection maps. Refer to the Display Setting->Map Config' section for further information.*

Video Control

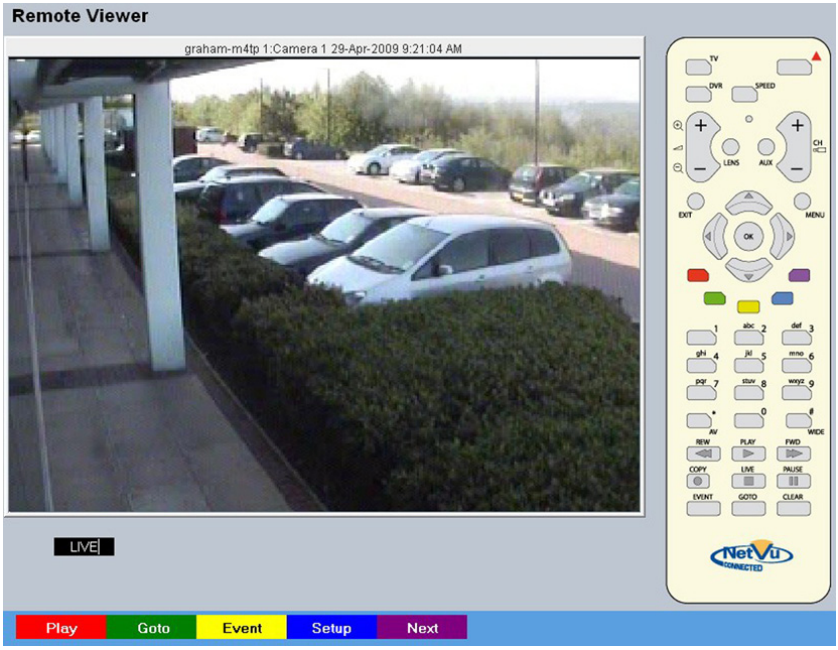
The Video Control page offers video playback functions i.e. play, pause, rewind and fast forward.



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.

Selection Page

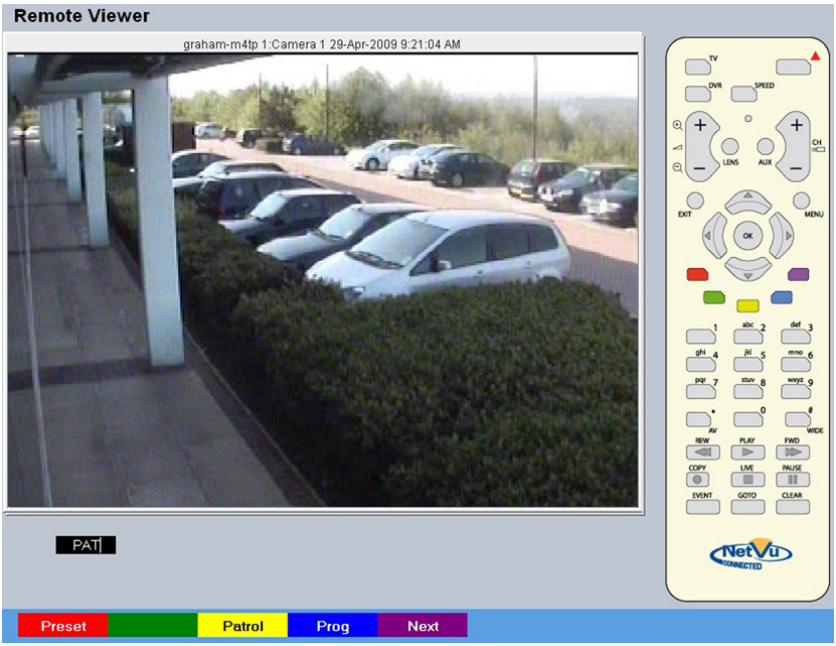
The Selection page allows access to various image and event playback functions.



Red	Play	Switches the selected camera(s) shown on screen into Play mode.
Green	Goto	Opens the Timeline Navigation (Goto) menu.
Yellow	Event	Displays the Events menu.
Blue	Setup	Opens the Configuration menu pages.
IMPORTANT:	*Selecting this option will exit the Viewer menus. This will be logged in the User Activity Log as the current user terminating the session, refer to 'Appendix C' for further information regarding the User Activity Log.*	
Purple	Next	Opens the next page of the Viewer menu.

PTZ Program Option

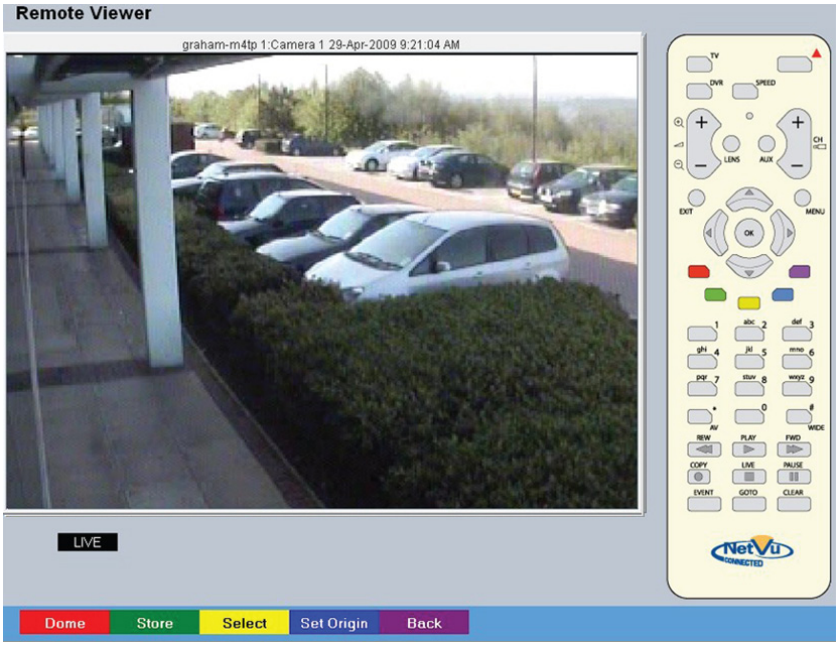
The Program page allows preset settings for PTZ cameras to be established and an 'Origin' base position established for a camera.



Red	Preset	If Preset positions have been established for the PTZ camera, select the Preset option and enter a preset number. Refer to the 'Presets' menu page for further details on establishing preset positions.
Yellow	Patrol	If Patrols have been established for the camera, select the Patrol option and enter a number. Refer to the 'Patrols' menu page for further details on establishing Patrols.
Blue	Prog	Opens the 'Dome Menu Option' page.
Purple	Next	Opens the next page of the Viewer menu.

Program Page

The Program Menu page allows the PTZ configuration on the currently selected telemetry camera to be accessed and configured.



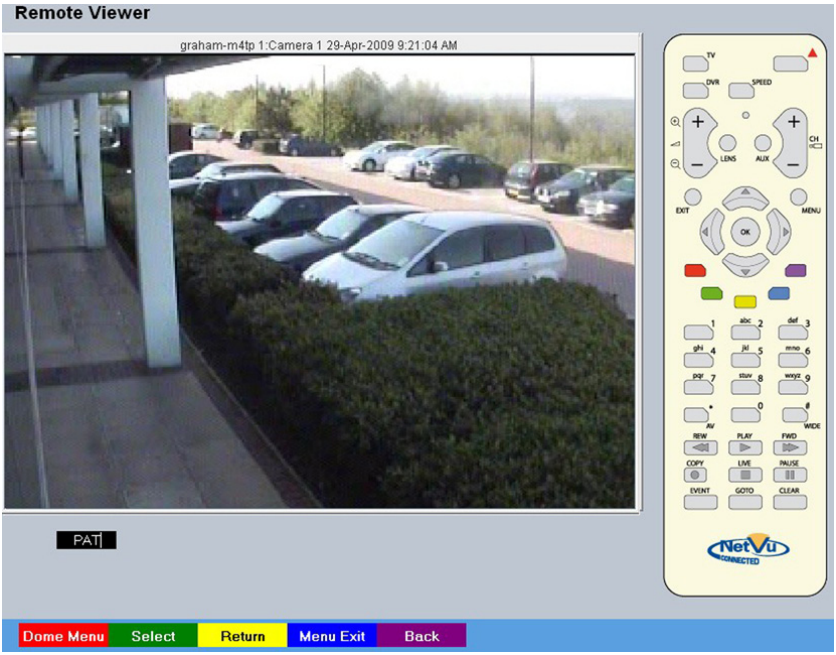
Red	Dome	Select to display the Dome Menu page.
Green	Store	Use to save the current view as a Preset for this camera. Press this button then a preset position (using the numeric keys on the IR Remote Control or optional Keyboard if viewing via a local monitor). To re-send the camera to this position, 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 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..
Purple	Back	Return to the 'PTZ Program Option' page.

Dome Menu Option

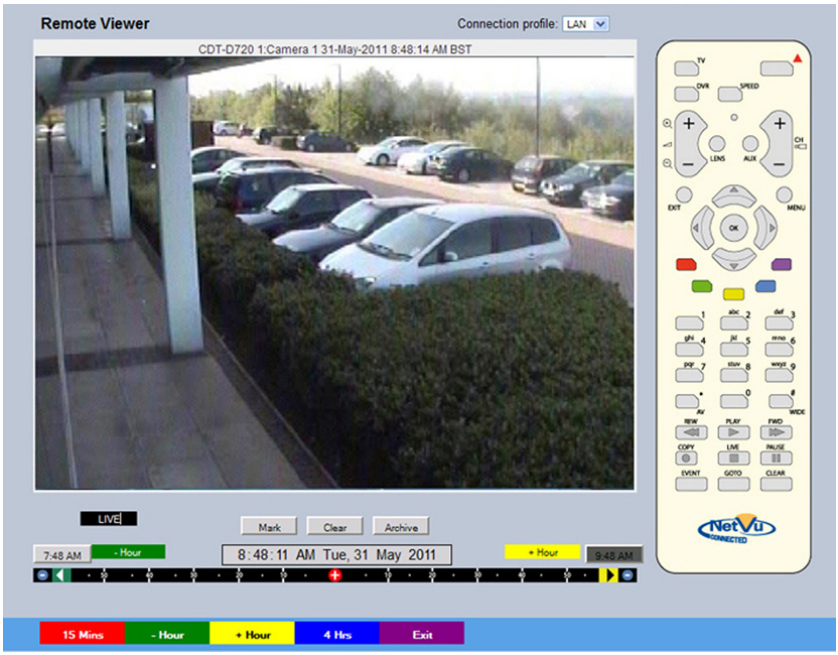
The Dome Menu page allows camera specific menus imbedded on the currently viewed Telemetry camera to be accessed and configured.



Red	Dome Menu	Select to view camera specific sub-menus embedded on the Telemetry camera (if applicable). The camera specific menus will be overlaid 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 enabes 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.

Timeline Navigation (Goto Page)

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

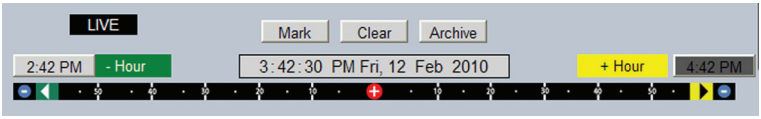
The coloured softkey options will change depending on the scale used to review the recorded images. In the above example:

- 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 ime 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.*

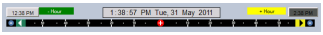
Video Timeline

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

Change Scale

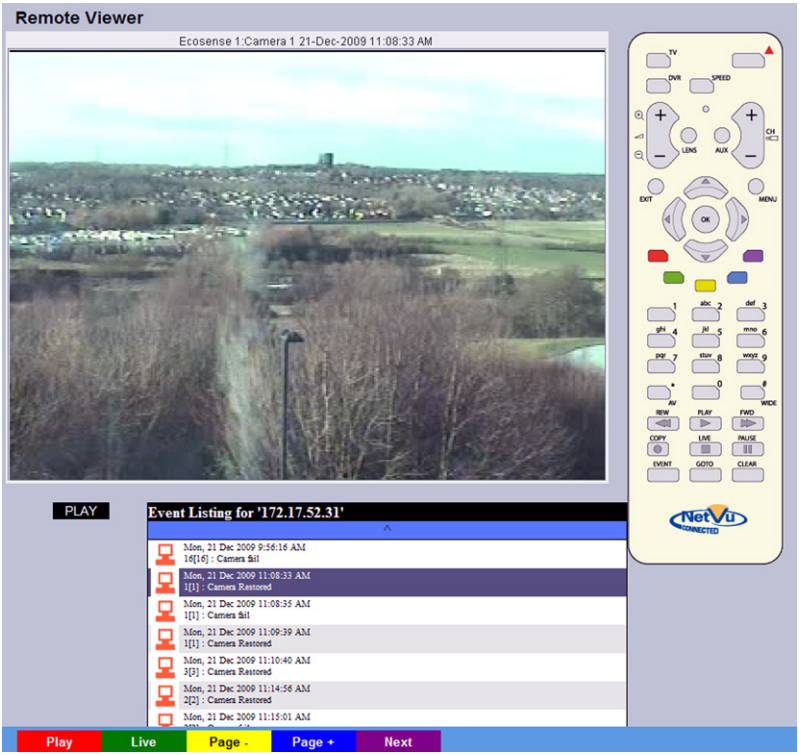
Utilise the buttons shown below to change the scale.

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 List

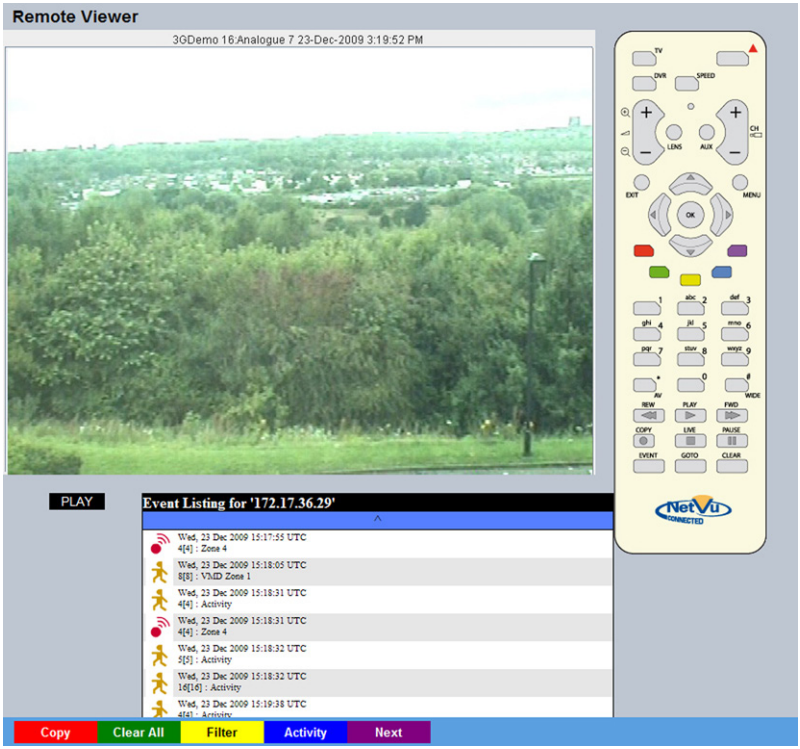
Alarms and activity detection, plus system Events i.e. camera fails, are tagged and stored in the Event List. Each Event is labelled with an event type (alarm, activity or system) and its time and date. To view any additional pages of Event data, use the Yellow/Blue Softkeys. If viewing locally, use the Up/Down Directional buttons to select a specific Event, press the OK button to display the full list. When viewing remotely, selecting any Event with the mouse will display the full Event list. If viewing locally, press PLAY on the IR Remote Control/Keyboard to playback an event. If viewing remotely, highlight a chosen event with the mouse to playback.



Red	Play	Select to playback the highlighted event.
Green	Live	Select to view live images from the currently selected camera.
Yellow	Page -	Select to display the previous page of Event data.
Blue	Page +	Select to display the next page of Event data.
Purple	Next	Select to open the Event Copy and Search menu.

Event Copy and Search Menu

The Event Copy and Search menu allows events to be sent to the Copy menu via the Copy Option. All events currently held within the 'Copy' menu can be deleted via the 'Clear All' option. The 'Filter option' allows access to the 'Filter Search' menu.



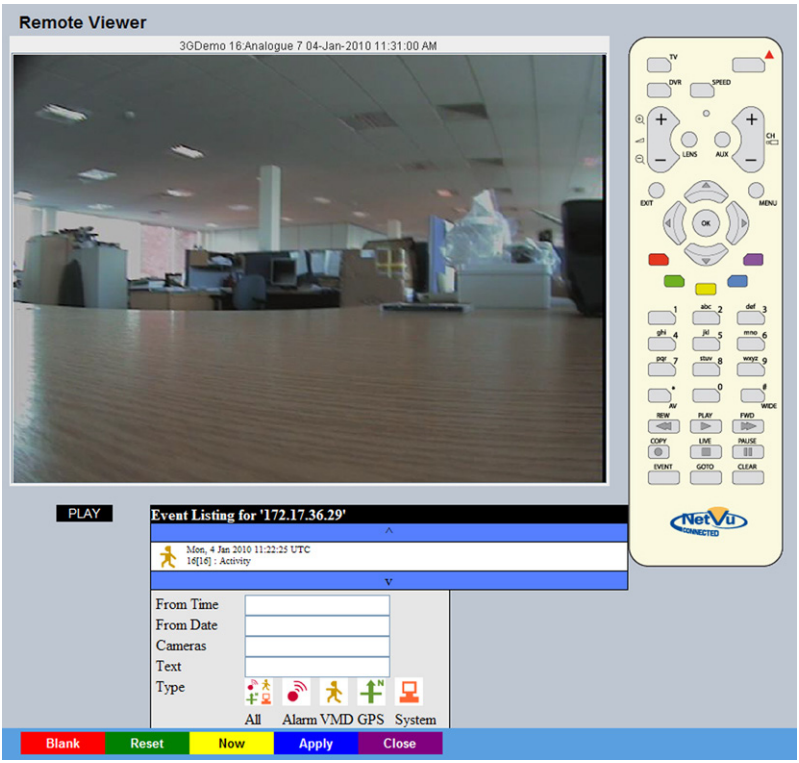
Red	Copy	Select to add the currently highlighted event to the Copy menu.
Green	Clear All	Select to clear ALL events from the copy menu.

Note: *Single events can be deleted via the Copy menu.*

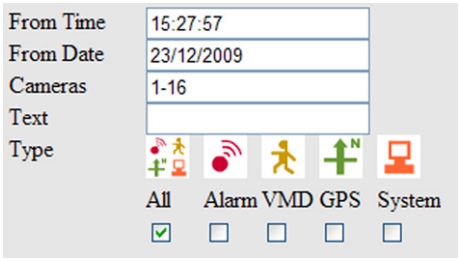
Yellow	Filter	Select to display the Filter Search menu, *refer to; Operating The Viewer->Filter Search for further guidance.*
Blue	Activity	Select to open the Activity Search menu, *refer to; Operating The Viewer->Activity Search for further guidance.*
Purple	Next	Opens the Play menu for the currently selected camera.

Filter Search Menu

When searching a large number of stored events, the Filter Search menu allows events to be filtered by time, camera channel and category.



Filter Search Box

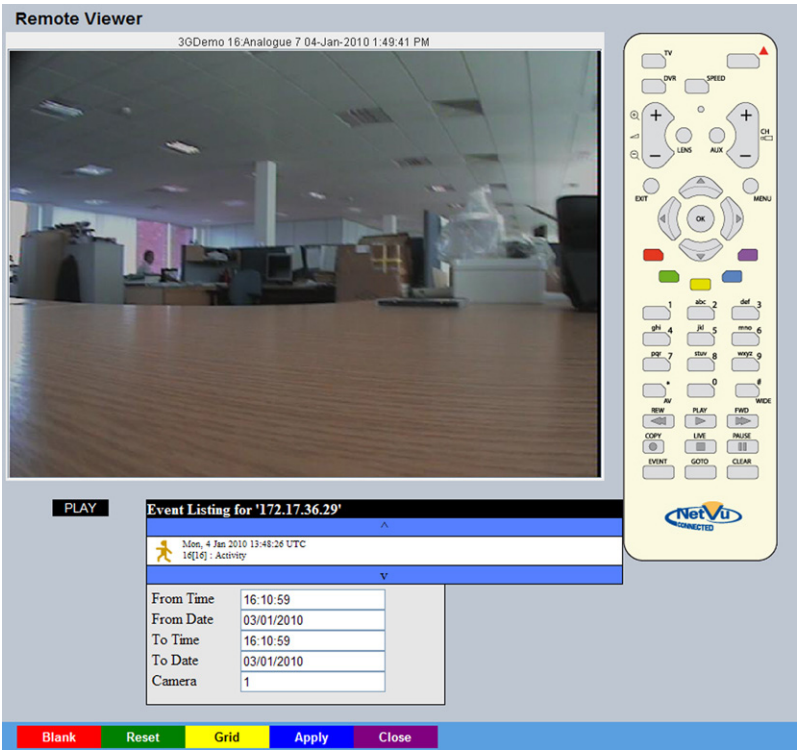


From Time	Select a start time for the Event filter. Events prior to this time will be ignored.
From Date	Select a start date for the Event filter. Events prior to this date will be ignored.

	Cameras	Select which cameras are to be included within the Event search. A range of cameras can be selected by entering a hyphen between the first and last required camera i.e.1-8. A selection of individual cameras can be chosen by entering a comma between each camera i.e. 1,3,5,8. Events captured by other cameras will be ignored.
	Text	If searching for text in image events, enter the required text here.
	Type	The event search can be filtered to include all, or specific event types only. The event types are: Alarm, VMD, GPS and System. Each type is assigned a specific symbol, these symbols accompany each listed event for easy recognition.
Red	Blank	Select to remove all data currently displayed in the Filter Search Box.
Green	Reset	Select to reset the Filter Search box. The current Time/Date will be displayed plus all available cameras.
Yellow	Now	Select to enter the current Time/Date. Any additional displayed search criteria will remain.
Blue	Apply	Select to apply any changes made to the Filter Search box.
Purple	Close	Select to return to the Event Copy and Search menu.

Activity Search Menu

The Activity Search menu allows the search criteria to be further narrowed to only include events which have occured within specific segments of the camera view. Firstly, enter a start/end Time and Date, then select a camera channel. Use the Grid option to select a specific segment of the camera view.

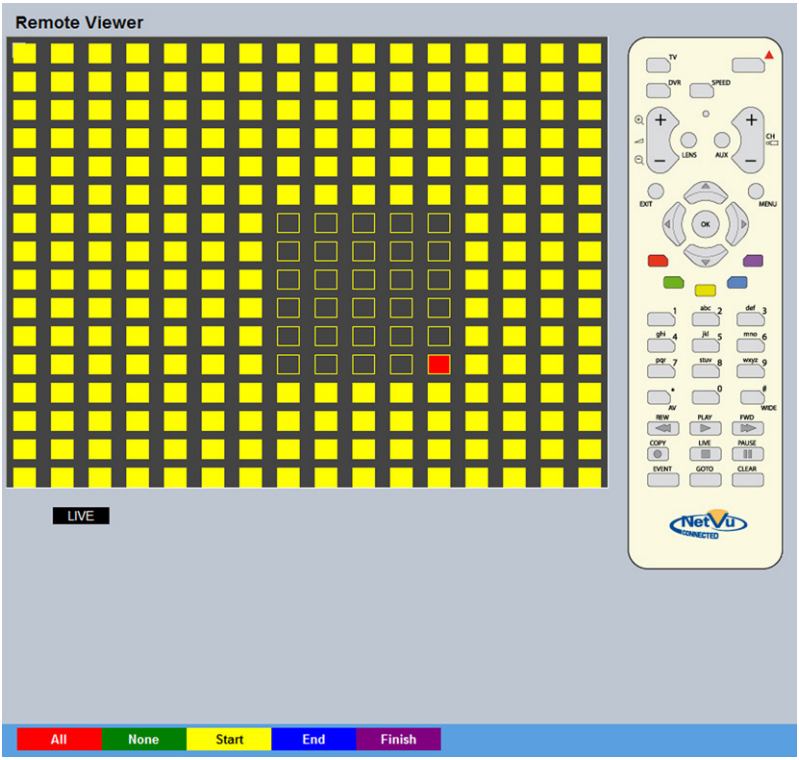


	From Time	Select a start time for the Activity filter. Events prior to this time will be ignored.
	From Date	Select a start date for the Activity filter. Events prior to this date will be ignored.
	To Time	Select an end time for the Activity filter. Events after this time will be ignored.
	To Date	Select a end date for the Activity filter. Events after this date will be ignored
	Cameras	Select which camera to include within the Activity search. A range of cameras can be selected by entering a hyphen between the first and last required camera i.e.1-8. A selection of individual cameras can be chosen by entering a comma between each camera i.e. 1,3,5,8. Events captured by other cameras will be ignored.
Red	Blank	Select to remove all data currently displayed in the Filter Search Box.

Green	Reset	Select to reset the Filter Search box. The current Time/Date will be displayed plus all available cameras.
Yellow	Grid	Select to open the Grid menu.
Blue	Apply	Select to apply any change made to the Filter Search box.
Purple	Close	Select to return to the Event Copy and Search menu.

Activity Grid Menu

The Activity Grid menu allows the event search criteria to be further narrowed to only display events which have occured within a segment of the camera view. A grid will be displayed across the image of the selected camera channel. Using the options outlined below, the grid can be configured to create activity zones within the image. Only events which have occured wthin these zones will then be displayed in the Activity Search menu for the chosen camera channel.



Red	All	This option will display a default rectangle of 18x16 cells across the video image.
Green	None	This option will delete all cells from the displayed video image.
Yellow	Start	Highlight a cell using the Directional buttons on the IR Remote Control (if viewing remotely) and select Start (Yellow). This will mark the start point of the area NOT to be included in the activity zone.
Blue	End	Highlight a cell using the Directional buttons on the IR Remote Control (if viewing remotely) and select End (Blue). This will mark the end point of the area NOT to be included in the activity zone.

If viewing remotely, a zone can be created directly via the mouse. Simply click on a cell and then on a separate cell. An area NOT to be included in the Activity zone will be created linking these points.

IMPORTANT: *The area (cells) highlighted yellow constitutes the activity detection zone. Any activity events occuring within the area created using the Start and and End points will be ignored.*

Note: *Multiple zones can be created within the same camera view.*

Purple	Finish	Select to return to the Activity Search menu.

Appendix A - Unit Specification

Camera Specifications

Image Sensor:	Sony Super HAD CCD (18x Indoor) Sony Ex-View HAD CCD (18x, 36x Outdoor) Sony Ex-View HAD CCD 2 (28x Outdoor)
Video Processor:	SoC DSP (CW5631)
Horizontal Resolution:	480TVL (PAL/NTSC)
Sensitivity:	0.05lux Colour / 0.01lux Mono
WDR:	Available on external 18x & 36x Models
Lens:	18x – 4.1 to 73.8mm (F1.4 to F3) 28x – 3.5 to 98mm (F1.35 to F3.7) 36x – 3.4 to 122.4mm (F1.6 to F4.5)
Zoom (Optical/Digital):	18x/12x, 28x/12x, 36x/12x
Angle of View:	18x – 2.8o (tele) to 48o (wide) 28x – 2.1o (tele) to 55.8o (wide) 36x – 1.7o (tele) to 57.8o (wide)
Focus:	Automatic with option for minimum distance
Iris Control:	Automatic & Manual
Shutter Speed:	1/1s to 1/10,000s
Camera Movement:	0.05º to 300º / sec max. (both axes)

General Specifications

Presets & Patrols:	99 Presets / 4 Patrols with 32 positions
Telemetry Protocol:	DM IP, DM RS485, Pelco-P, Pelco-D (DM UTC, Pelco-C and BBV-C available through the Analogue Alarm Modules)
Language Options:	English, English (US), Spanish, Spanish (Americas), French, Italian, German, Russian, Czech, Danish, Finnish, Norwegian, Swedish, Dutch, Polish
Enclosure/Finish:	Indoor Dome - Injection Moulded Ronfalin (VE820 ABS)/RAL9002 Outdoor Dome - Pressure Die-Cast Aluminium / Polyester Powder Coated BS48000 00-A-01, IP66 rating Hemisphere: Optically correct Polycarbonate
Connections:	RJ45 Connector for Ethernet 10/100BaseT, Balanced Twisted Pair (composite output available via Analogue Alarm Box)
Mounting Options:	Range of brackets and mounts available
Measurements (Dome Head):	Indoor Dome - Radius 189, H250 Outdoor Dome - Radius 206, H240
Measurements (PSU):	230x173x97 (LxWxHmm including connectors)
Weight (Dome Head):	Indoor Dome - 2.2kg, Outdoor Dome - 3.9kg
Weight (PSU):	1.4kg
Power (Indoor Dome) :	24Vac/dc,18W / PoE, 20W
Power (Outdoor Dome) :	24Vac/dc from 230V PSU,50W
PoE: IEEE 802.3-2008.	PoE injector supplied with product.
Operating Temperature:	Indoor Dome 0ºC to +50ºC (32ºF to 122ºF) Outdoor Dome -30ºC to +50ºC (-22ºF to 122ºF)
Certification:	CE
Warranty:	4 Years

Network & Configuration Specifications

Image Masking:	Privacy Mask 24 Sectors, Mosaic Masking 24 Sectors
Network Support:	DCCP, DHCP, HTTP, HTTPS, IPv4, SMTP, Bonjour, ICMP, DNS, NTP, TCP, UPP, UDP, ICMP, DHCP, ARP, RTP, Telnet, FTP, AoE, SNMP, ZeroConf
Web Page Configuration:	Simple Web page configuration will allow the following functions to be configured: Camera setup, Manual update of viewing profiles, Network and Alarm settings.
Closed IPTV:	Forms part of a simple and secure IP security system (specific settings must be enabled).
Direct Camera Configuration:	Directly configure from the associated NetVu Connected Video Server. In addition, when used within a Closed IPTV system, default settings (such as streaming rate, resolution, aspect ratio, telemetry, lens configuration etc.) can be automatically assigned to the camera.

Video Specifications

Compression:	JPEG, H.264 and MPEG-4. Multiple simultaneous streams of all.
Output Resolution:	4CIF, 2CIF, CIF, QCIF
Image Streaming:	25pps @ 4CIF. Multiple simultaneous streams
Multi-streaming & TransCoding:	Transmit varying quality streams in any combination of MPEG-4, H.264 and JPEG formats to viewers on demand for both live and replay video, without affecting the record quality, and for replayed video regardless of record quality and resolution. Each stream can be tailored to suit the viewer's bandwidth requirements and can be dynamically changed without the need to stop and then restart the stream. This operation is carried out independently of any recordings being made by the cameras on-board storage.
Balanced Video Output:	(PAL / NTSC) live display enables camera focusing / configuration. Video output can also be used as part of a media display or emergency messaging capability. As an IP Camera this is initially only operational for 10 minutes (user configurable) to aid configuration.
Integrated Camera Recording (ICR):	ICR combines recording capability and a full enterprise video server within the camera. Record camera footage at the unit as well as any associated Video Server. An integrated 2GB Micro SD card provides local recording capability whilst ATA over Ethernet (AoE) protocol provides highly-secure point-to-point transfer of video files to separate, remote, storage devices for backup and longterm archiving. Enables a tiered storage architecture that ensures no single point of failure.
Image Control:	Camera Title, Lens Select, AWB, Electronic Iris, Exposure Level, Flip/ Mirror Video, Sharpness Control

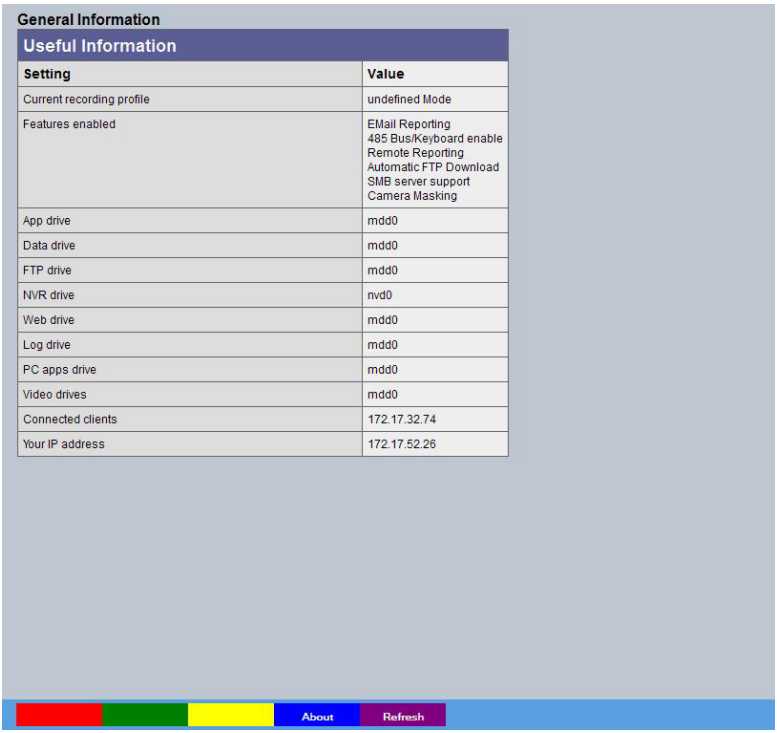
Integration Specifications

Application Support:	IE 5.5 / Firefox 2.0 Web browser or above, Java via Dedicated Micros SDK
NetVu ObserVer:	Dedicated Micros NetVu ObserVer video management software allows seamless viewing and control of live and recorded images from any NetVu Connected product (IP or analogue) in a single interface. The ability to view multiple sites simultaneously makes management of any security installation efficient. The inclusion of RVRC (ARC) features such as EDP, event characterisation and report generation make NetVu ObserVer ideal for remote monitoring of multiple sites. (Supplied with Product, Apple Mac Version Available)
Alarms & Relays:	Alarm modules available separately

Appendix B - Status Pages

General Information

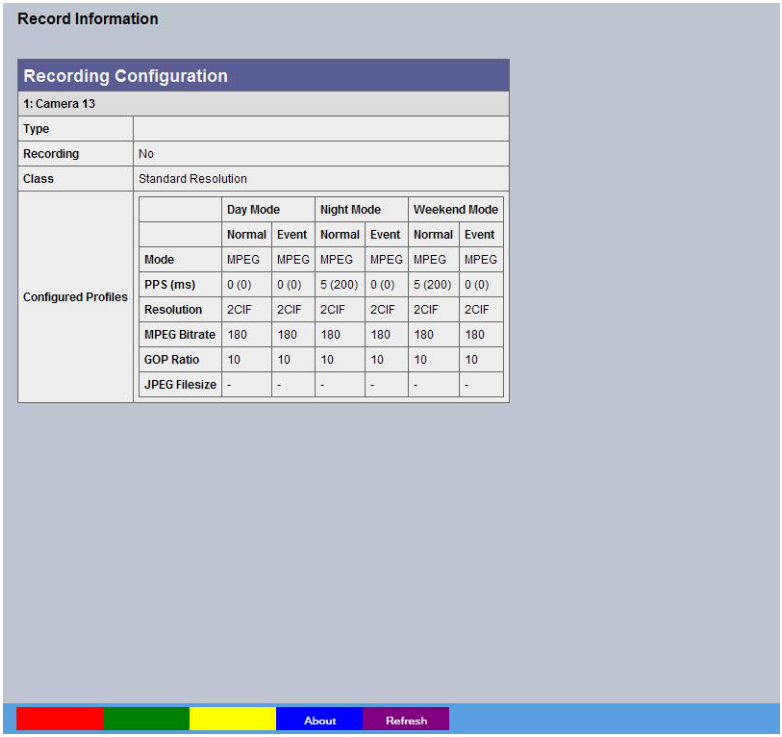
This page gives an overview of the units current settings including IP address, connections to the camera, the locations that data is being read from and written to, and which recording profile is active.



About (Blue)	Opens the *About* page
Refresh (Purple)	Refreshes the current page

Record Details

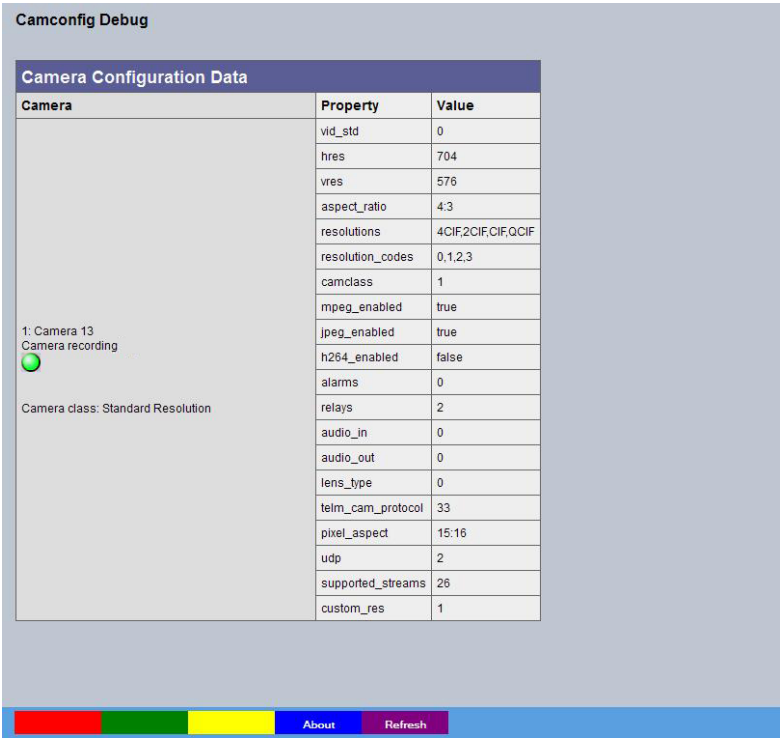
This page displays the configured recording settings for the unit. The current record mode being used by the unit can be found on the General Information page.



About (Blue)	Opens the *About* page
Refresh (Purple)	Refreshes the current page

Camconfig Details

This page displays the capabilities of the camera in terms of resolution and supported compression formats. Parameters that the camera does not support return 0.



Camconfig Debug

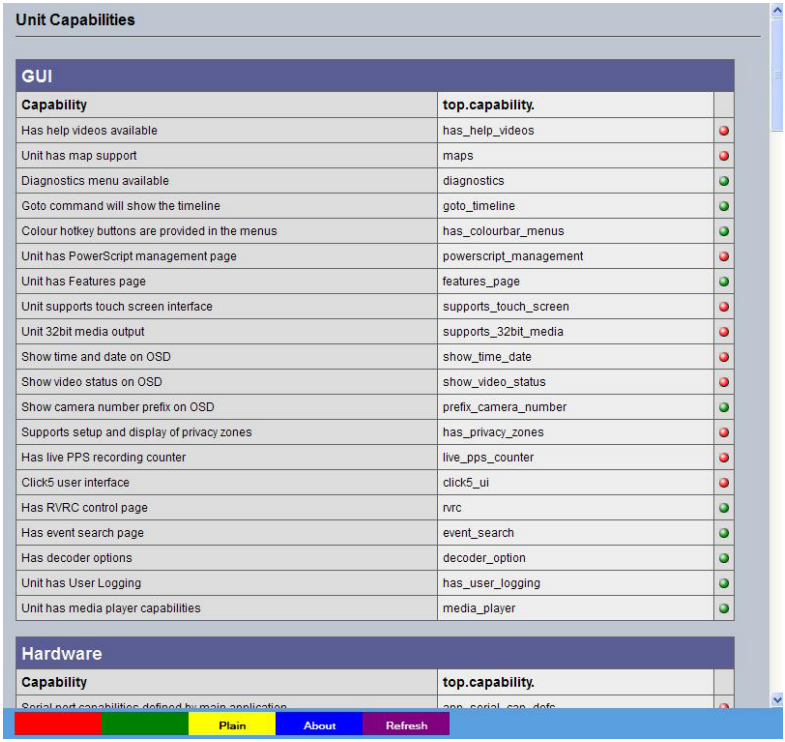
Camera Configuration Data

Camera	Property	Value
1: Camera 13 Camera recording Camera class: Standard Resolution	vid_std	0
	hres	704
	vres	576
	aspect_ratio	4:3
	resolutions	4CIF,2CIF,CIF,QCIF
	resolution_codes	0,1,2,3
	camclass	1
	mpeg_enabled	true
	jpeg_enabled	true
	h264_enabled	false
	alarms	0
	relays	2
	audio_in	0
	audio_out	0
	lens_type	0
	telm_cam_protocol	33
	pixel_aspect	15:16
	udp	2
	supported_streams	26
	custom_res	1

About (Blue)	Opens the *About* page
Refresh (Purple)	Refreshes the current page

Capabilities

This information page shows the capability settings for the camera. These parameters determine how the camera performs and what options are available on the configuration pages.

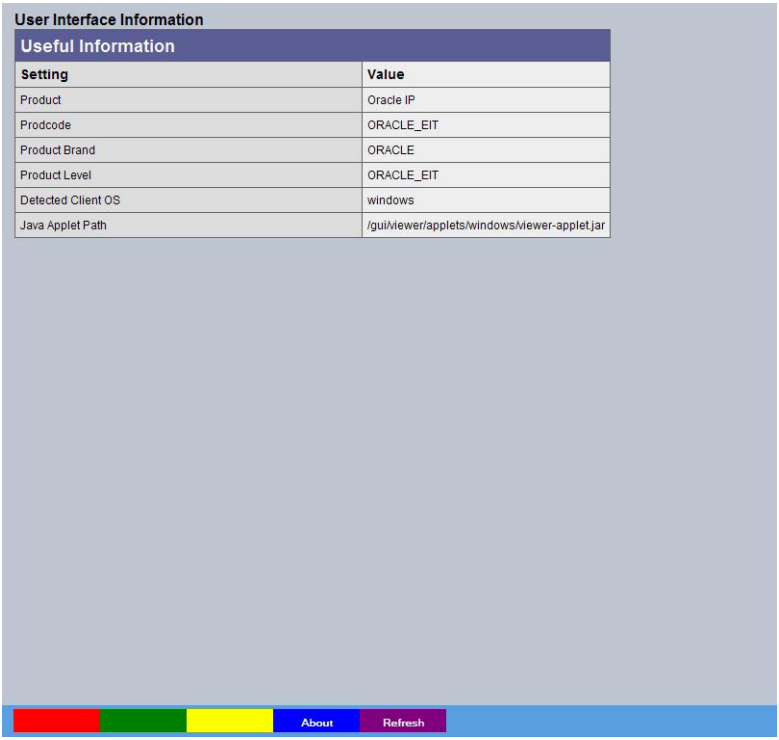


About (Blue) — Opens the *About* page

Refresh (Purple) — Refreshes the current page

UI Information

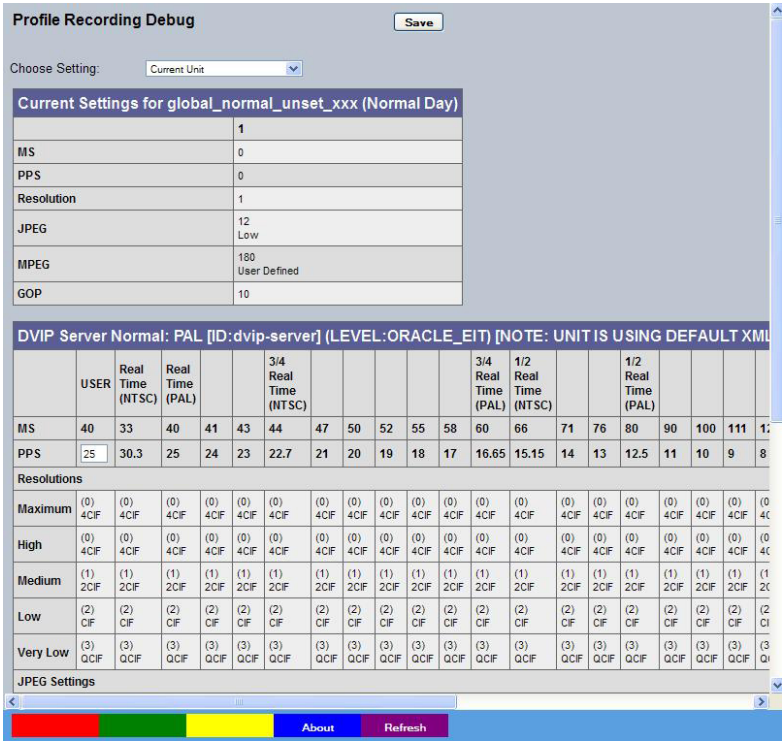
The UI page shows the settings stored in the camera which configure the user interface.



About (Blue)	Opens the *About* page
Refresh (Purple)	Refreshes the current page

Profile Record Tables

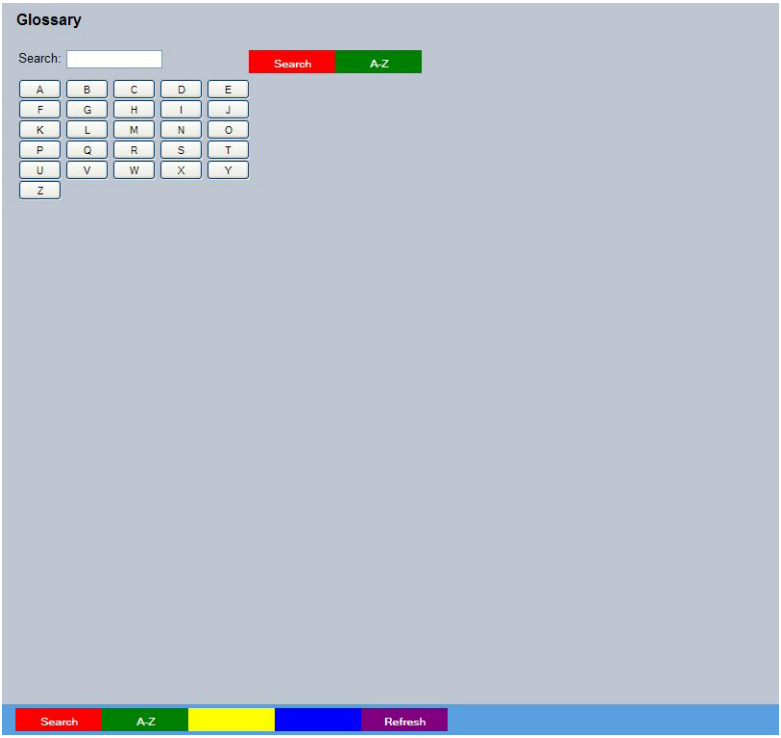
This page shows the different settings available in the record configurations. The current default settings are indicated by crosses.



About (Blue)	Opens the *About* page
Refresh (Purple)	Refreshes the current page

Glossary

This page provides quick reference to the technical terms used throughout the manuals and on the configuration pages, and allows alphabetical indexing and free text searching.

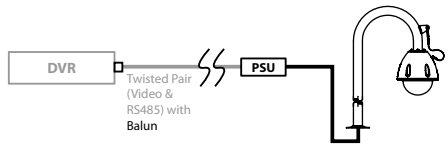


Search (Red)	Enter text into the search box and then click this button to find all related terms.
A-Z (Green)	Activates the letter selection buttons allowing all subjects within a selected index letter to be displayed.
Refresh (Purple)	Refreshes the current page

Appendix C - Example Configurations

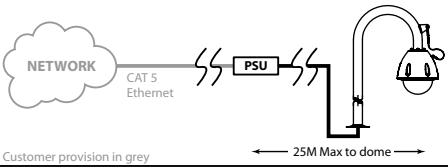
EXAMPLE SNOWDROP MOUNT CONFIGURATIONS

ANALOGUE DOME : MAINS POWER : NO ALARMS



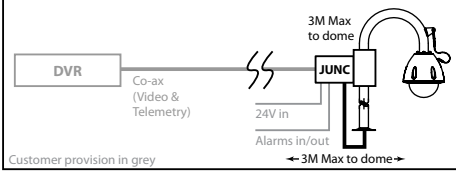
Parts List		
Mount	DM/90004	Snowdrop
Alarm Box / Junction	-	
Cable	DM/OD/3M	3M Straight Connector
PSU	DM/OD/PSU	Mains Power Supply
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

IP DOME : MAINS POWER : NO ALARMS



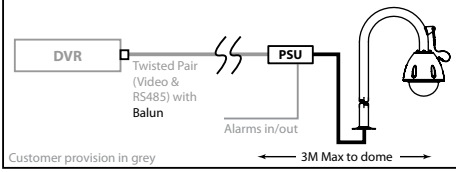
Parts List		
Mount	DM/90004	Snowdrop
Alarm Box / Junction	-	
Cable	DM/OD/25M	25M Straight Connector
PSU	DM/OD/PSU	Mains Power Supply
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

ANALOGUE DOME : CUSTOMER 24V POWER : ANALOGUE ALARMS



Parts List		
Mount	DM/90004	Snowdrop
Alarm Box / Junction	DM/OD/ALM/AN/B	Analogue Alarm Box
Cable	DM/OD/3M	3M Straight Connector
PSU	-	
Mount Accessories	DM/OD/BOXMOUNT	Interface Adaptor (Pole)
Spares	DM/RC06	IR Remote Control

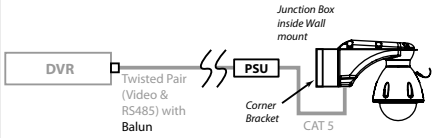
ANALOGUE DOME : MAINS POWER : ANALOGUE ALARMS



Parts List		
Mount	DM/90004	Snowdrop
Alarm Box / Junction	-	
Cable	DM/OD/3M	3M Straight Connector
PSU	DM/OD/PSU/ALMAN	PSU (inc Analogue Alarms)
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

EXAMPLE WALL MOUNT CONFIGURATIONS

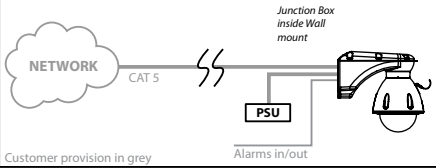
ANALOGUE DOME : MAINS POWER : NO ALARMS



Customer provision in grey

Parts List		
Mount	DM/BKT-CM-WALL	Wall Mount
Alarm Box / Junction	DM/OD/IFACE/A	Simple Interface
Cable	DM/OD/0M4-90	0.4M 90º Connector
PSU	DM/OD/PSU	Mains Power Supply
Mount Accessories	DM/BKT-ADAPT	Corner Bracket
Spares	DM/RC06	IR Remote Control

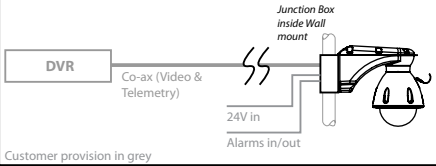
IP DOME : MAINS POWER : IP ALARMS



Customer provision in grey

Parts List		
Mount	DM/BKT-CM-WALL	Wall Mount
Alarm Box / Junction	DM/OD/ALM/IP/A	IP Alarm Box
Cable	DM/OD/0M4-90	0.4M 90º Connector
PSU	DM/OD/PSU	Mains Power Supply
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

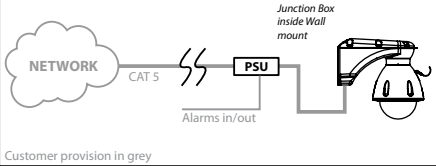
ANALOGUE DOME : CUSTOMER 24V POWER : ANALOGUE ALARMS



Customer provision in grey

Parts List		
Mount	DM/BKT-CM-WALL	Wall Mount
Alarm Box / Junction	DM/OD/ALM/AN/A	Analogue Alarm Box
Cable	DM/OD/0M4-90	0.4M 90º Connector
PSU	-	
Mount Accessories	DM/BKT-PL-90130	90-130mm Adaptor (Pole)
Spares	DM/RC06	IR Remote Control

IP DOME : MAINS POWER : IP ALARMS

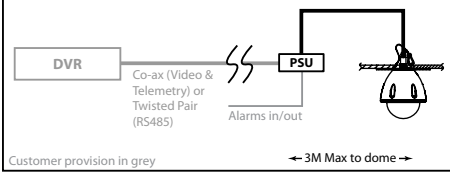


Customer provision in grey

Parts List		
Mount	DM/BKT-CM-WALL	Wall Mount
Alarm Box / Junction	DM/OD/IFACE/A	Simple Interface
Cable	DM/OD/0M4-90	0.4M 90º Connector
PSU	DM/PSU/ALMIP	Mains Power Supply
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

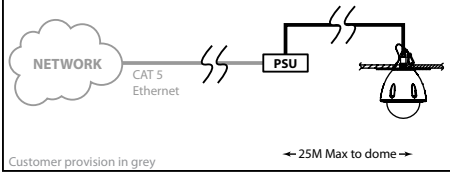
EXAMPLE SOLID CEILING CONFIGURATIONS

ANALOGUE DOME : MAINS POWER : ANALOGUE ALARMS



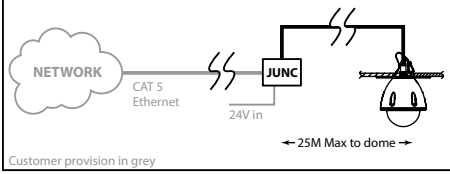
Parts List		
Mount	DM/90006	Solid Ceiling
Alarm Box / Junction	-	
Cable	DM/OD/3M	3M Straight Connector
PSU	DM/OD/PSU/ALMAN	PSU (inc Analogue Alarms)
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

IP DOME : MAINS POWER : NO ALARMS



Parts List		
Mount	DM/90006	Solid Ceiling
Alarm Box / Junction	-	
Cable	DM/OD/25M	25M Straight Connector
PSU	DM/OD/PSU	PSU
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

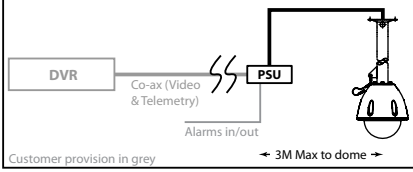
IP DOME : CUSTOMER 24V POWER : NO ALARMS



Parts List		
Mount	DM/90006	Solid Ceiling
Alarm Box / Junction	DM/OD/IFACE/B	Simple Junction
Cable	DM/OD/25M	25M Straight Connector
PSU	-	
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

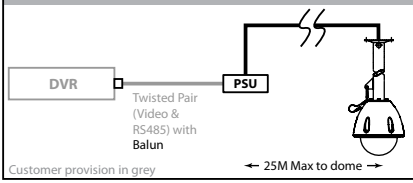
EXAMPLE PENDANT MOUNT CONFIGURATIONS

ANALOGUE DOME : MAINS POWER: ANALOGUE ALARMS



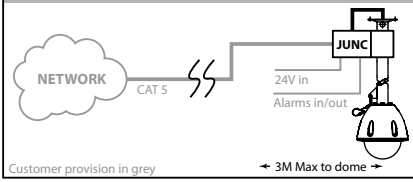
Parts List		
Mount	DM/90003	Pendant Mount (250mm)
Alarm Box / Junction	-	
Cable	DM/OD/3M	3M Straight Connector
PSU	DM/OD/PSU/ALMAN	PSU (inc Analogue Alarms)
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

ANALOGUE DOME : MAINS POWER : NO ALARMS



Parts List		
Mount	DM/90012	Pendant Mount (500mm)
Alarm Box / Junction	-	
Cable	DM/OD/25M	25M Straight Connector
PSU	DM/OD/PSU	PSU (inc Interface)
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

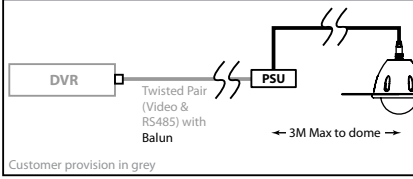
IP DOME: CUSTOMER 24V POWER: IP ALARMS



Parts List		
Mount	DM/90013	Pendant Mount (1000mm)
Alarm Box / Junction	DM/OD/ALM/IP/B	IP Alarm Box
Cable	DM/OD/3M	3M Straight Connector
PSU	-	
Mount Accessories	DM/OD/BOXMOUNT	Interface Box Mount
Spares	DM/RC06	IR Remote Control

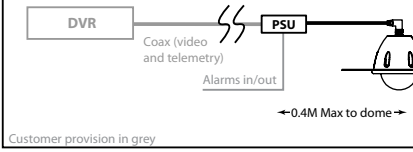
EXAMPLE FALSE CEILING MOUNT CONFIGURATIONS

ANALOGUE DOME : MAINS POWER : NO ALARMS



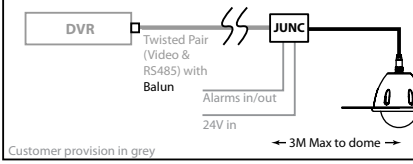
Parts List		
Mount	DM/90001	External Ceiling
Alarm Box / Junction	-	
Cable	DM/OD/3M	3M Straight Connector
PSU	DM/OD/PSU	Mains Power Supply
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

ANALOGUE DOME : MAINS POWER : ANALOGUE ALARMS



Parts List		
Mount	DM/90001	External Ceiling
Alarm Box / Junction	-	
Cable	DM/OD/0M4-90	0.4M 90º Connector
PSU	DM/OD/PSU/ALMAN	PSU (inc Analogue Alarm)
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

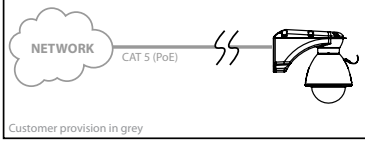
ANALOGUE DOME : CUSTOMER 24v POWER : IP ALARMS



Parts List		
Mount	DM/90001	External Ceiling
Alarm Box / Junction	DM/OD/ALM/IP/B	IP Alarm Box
Cable	DM/OD/3M	3M Straight Connector
PSU	-	
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

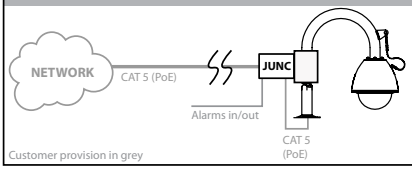
EXAMPLE INTERNAL MOUNT CONFIGURATIONS

IP DOME : POE POWER : NO ALARMS



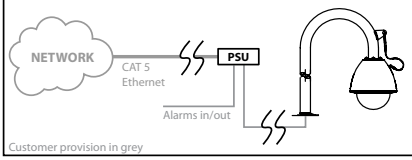
Parts List		
Mount	DM/BKT-CM-WALL	Wall Mount
Alarm Box / Junction	-	
Cable	-	
PSU	-	
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

IP DOME : POE POWER : IP ALARMS



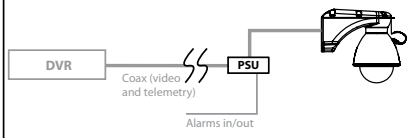
Parts List		
Mount	DM/90004	Snowdrop Mount
Alarm Box / Junction	DM/OD/ALM/IP/B	IP Alarm Box
Cable	-	
PSU	-	
Mount Accessories	DM/OD/BOXMOUNT	Interface Box Mount
Spares	DM/RC06	IR Remote Control

IP DOME : MAINS POWER : IP ALARMS



Parts List		
Mount	DM/90004	Snowdrop Mount
Alarm Box / Junction	-	
Cable	-	
PSU	DM/OD/PSU/ALMIP	PSU (inc IP Alarm)
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

ANALOGUE DOME : MAINS POWER : ANALOGUE ALARMS

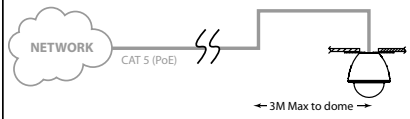


Parts List		
Mount	DM/BKT-CM-WALL	Wall Mount
Alarm Box / Junction	-	
Cable	-	
PSU	DM/OD/PSU/ALMAN	PSU (inc Analogue Alarm)
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

ANALOGUE DOME : CUSTOMER 24v POWER : ANALOGUE ALARMS

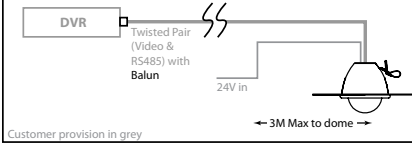
Parts List		
Mount	DM/90012	Pendant Mount (500mm)
Alarm Box / Junction	DM/OD/ALM/AN/B	Analog Alarm Interface
Cable	-	
PSU	-	
Mount Accessories	DM/OD/BOXMOUNT	Adaptor (Pole)
Spares	DM/RC06	IR Remote Control

IP DOME : POE POWER : NO ALARMS



Parts List		
Mount	DM/90006	Solid Ceiling
Alarm Box / Junction	-	
Cable	-	
PSU	-	
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

ANALOGUE DOME : CUSTOMER 24v POWER : NO ALARMS



Parts List		
Mount	DM/9001	External Ceiling
Alarm Box / Junction	-	
Cable	-	
PSU	-	
Mount Accessories	-	
Spares	DM/RC06	IR Remote Control

Changes applied to E1-0 - (6.3 (12.0206) - wp8 1.0 (6141))
Removed Alarm -> Zone Inputs Page
Removed Alarm -> Zone Actions Page
Added Alarm -> Contacts Action Page
Removed ‘Zone‘ option from Alarm Response
Text -> Text In Image Page added
Text -> Keywords Page added

Index

MI-I-ODH/E1-1

www.dedicatedmicros.com