

DV-IP Viewer2 User Guide

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DV-IP Viewer

The DV-IP range of products consists of a number of video servers and decoder's. The following describes the functionality of the DV-IP Viewer application which is supplied with any of the video products in the DV-IP range; DV-IP Server, DV-IP ATM, DV-IP Retail, etc,

There are a number of Dedicated Micros user interfaces available, each with varying functionality which can be specified in line with the system requirements.

The DV-IP Viewer 2.2 Software is a dedicated application that offers control of the many features supported on the DV-IP.

This section details the DV-IP Viewer that is supplied with the unit, it will give information on:

- How to access the applications
- Explanation of the operational controls
- Configuration where applicable
- Functionality that can be achieved

The software is in two forms and can be installed from:

- The CD ROM supplied with the unit
- Directly from the DV-IP itself



Note: The application that is supplied with the DV-IP also contains a Site Database Editor utility that can allow a system to be built for each User and will be explained in this manual

Installing the DV-IP Viewer 2 Software

It is recommended that the DV-IP Viewer 2 software be downloaded from the DV-IP unit itself; this section will detail how this is achieved.

When the DV-IP unit has been configured and allocated an IP address it is possible to remotely connect to the unit via the Ethernet network. To access and download the DV-IP Viewer application carry out the following:

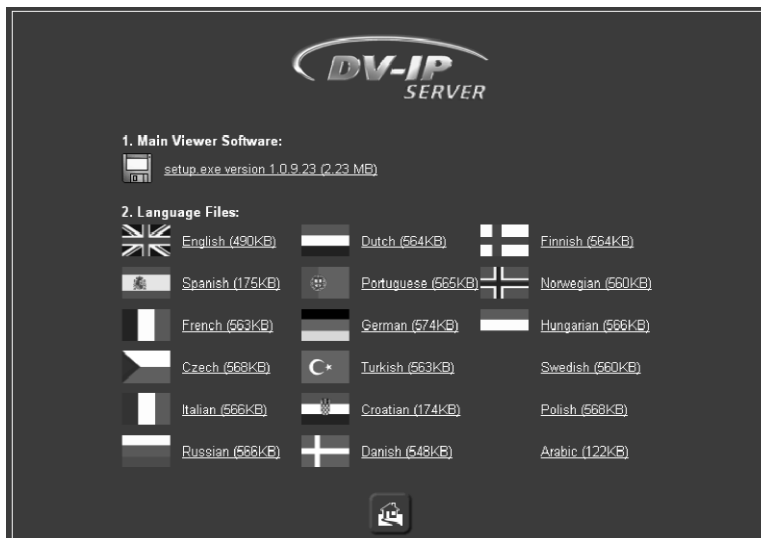


Note: At the time of issue the recommended (compatible) web applications are:
Internet Explorer 6
Netscape Navigator 7.x

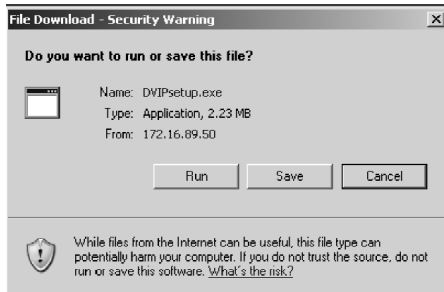
1. Connect to the DV-IP using the web interface, enter the IP address of the DV-IP unit in the address bar of the web interface.



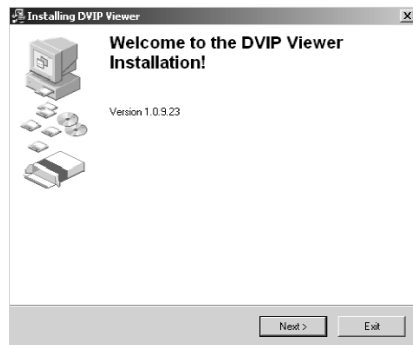
2. From the **Home** page select the **Software** option



3. You will be presented with the software download screen
4. Select the **setup.exe** from **1. Main Viewer Software** section
5. You will be asked if you want to **run** or **save** the file, it is recommended that if a dial up connection is being used for reliability select **save**. The following will show the file being Opened from it's location



6. Select **Run**
7. Using the installation wizard follow the on screen prompts



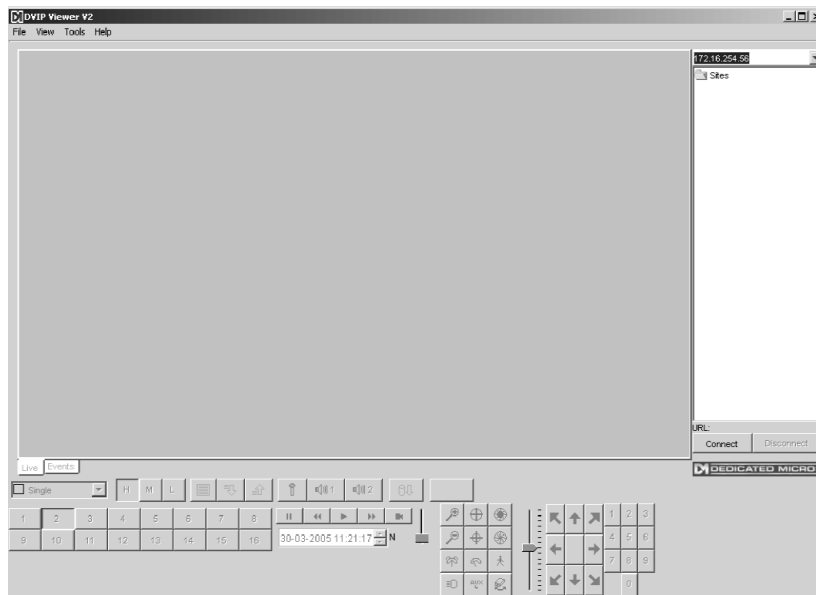
8. Select **Next**
9. Enter the location where the software is to be saved, **C:\Program Files\DV-IP** (default). Selecting **browse** will allow you to search the drives available to you on your PC and network.
10. Select **Next** and the software installation process will commence
11. Select **Finish** to end the installation process. A short cut to launch the DV-IP Viewer 2 will be automatically created on your desktop. The software can also be launched from **Start -> Programs -> DVIPViewer2**
12. The DV-IP Viewer 2 can be displayed in any of the supported languages; by default the display language will be English, to install the language of choice select the option from the **2. Language Files** section of the software download screen
13. Select **Open**, you will be prompted to select a location for the zip files to be extracted to
14. Leave the location as **c:** (default) and the files will be unzipped in the correct location. Select **overwrite** for any files that may already exist
15. Select **Close** to complete the file download, close the web interface
16. You will now be able to launch the DV-IP Viewer 2

DV-IP Viewer 2 Operation

The DV-IP Viewer 2 is a dedicated software application that allows the Operator to take control of most supported functions on the DV-IP.

A Viewer can connect to any DV-IP by entering the IP address of the server into the application and selecting connect. All control of the live or recorded video can now be achieved.

The Viewer interface allows the operator to view and control live video, select and replay recorded images, control audio connections and monitor events as they occur. It will display the enabled cameras on the selected DV-IP unit, list logged alarms, VMD and system conditions that are within the alarm log of the Server. Any of the associated images can be replayed by double clicking the mouse on the relevant event in the list.



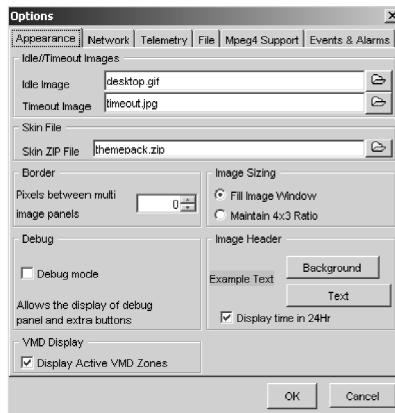
This sections details the functionality that can be achieved with the DV-IP Viewer and how to configure the application to fit the User's environment.

Configuring the DV-IP Viewer

Before connecting to a DV-IP and viewing video it is possible to set certain parameters on the viewer to allow you to customise and enable the functions that are required for the system. This feature allows each Operator to have a set of functions that is applicable to their requirements.

To configure the viewer carry out the following steps:

1. Select **Tools -> Preferences**, the configuration screen will be displayed
2. Select the **Appearance** tab.



Idle/Timeout Image and Skin File

It is possible to adapt the appearance of the viewer, this includes the viewer skin, idle image (displayed when there is no connection to a DV-IP device), time-out image (displayed when images have not been received from the DV-IP within the specified time).

Border

When viewing multiple cameras from a DV-IP unit it is possible to allocate a border around each video image, this is set in pixels

Image sizing

It is possible to configure the aspect ratio of the video image, this can be selected to force the image to fill the image window or maintain the 4:3 aspect ratio.

Debug

It is possible to display a Debug window over the Viewer application, this debug window contains information downloaded from the DV-IP unit as the Viewer controls the device. This switches the menu option on or off.

Note: This section may change with future releases of the DV-IP Viewer.

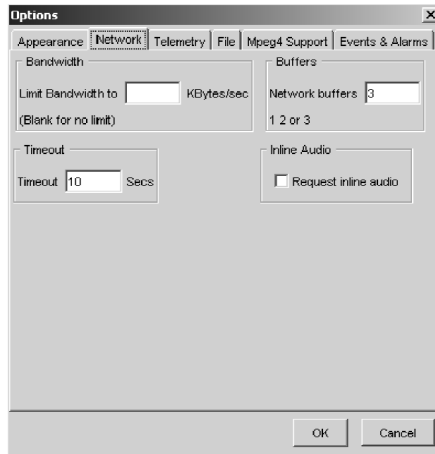
Image Header

Within the Viewer it is possible to display text information. It is possible to set the colour and background colour of this text information. It is also possible to switch between 12 hour and 24 hour mode.

VMD Display

The DV-IP supports Video Motion Detection (VMD), it is possible to enable the Viewer to display the VMD areas for the displayed camera.

3. Select the **Network** tab.



These settings relate to the network connection from the PC running the DV-IP Viewer application.

Bandwidth

If the remote connection is via a WAN it is possible to limit the bandwidth to ensure the transmission and receipt of the video does not overload the Network.

Buffers

It is possible to allocate a network buffer, the options are 1, 2 or 3. The DV-IP video server will buffer images and transmit these across the network. The buffer option is related to the speed of the network that the images will be transmitted across, if a slow network link was in use then the buffer should be set to 1 to ensure efficient transmission of images. For fast connections the buffer can be set to 3.

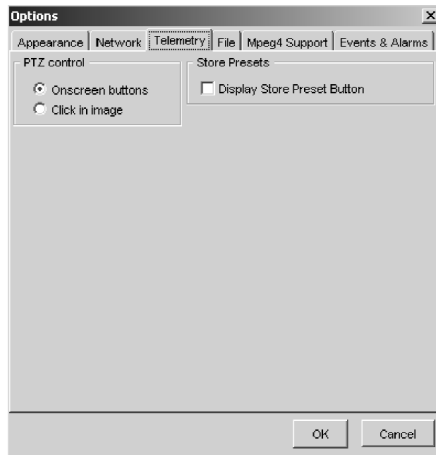
Timeout

If the DV-IP Viewer does not receive a response or video images from the selected DV-IP device within a set time the viewer will automatically display the timeout image.

Inline Audio

It is possible to connect to a DV-IP and establish an audio connection in Live or playback mode. The standard format for the audio link is UDP this is then transmitted alongside the TCP video link. Selecting inline audio will 'interleave' the audio and the video to create a single stream, this function is useful in applications where routers will not allow UDP traffic to be transmitted across a network.

4. Select the *Telemetry* tab



This option allows how the telemetry is controlled to be adapted to best suit the Operator.

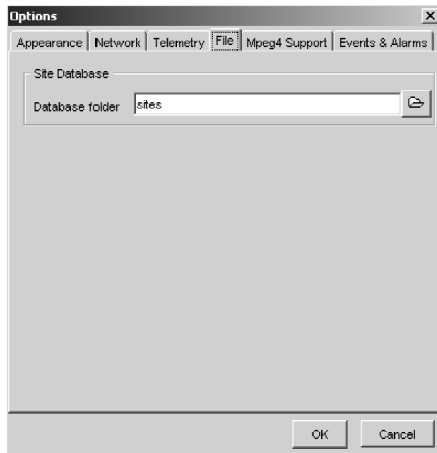
PTZ Control

It is possible to control PTZ cameras connected to the DV-IP device from the DV-IP Viewer. The control is either via on screen buttons for PTZ functionality or alternatively it is possible to click within the image to move the the cameras.

Store Preset

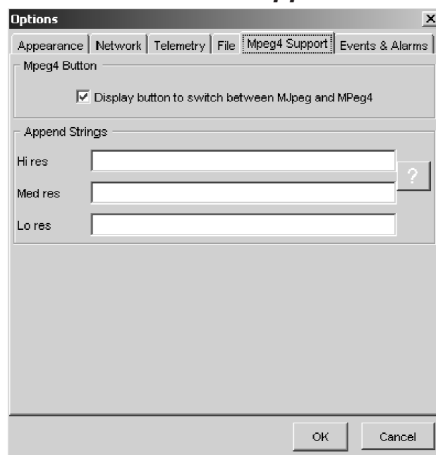
This will allow the Operator to move the PTZ/dome camera to a position and store this as a preset. The camera can then easily be moved to this position by selected the corresponding preset number.

5. Select the **File** tab



Within the application it is possible to create a site database that contains all details on all the units that can be accessed and controlled by the relevant Operator. This highlights where the site files are to be stored.

6. Select the **MPEG4 Support** tab



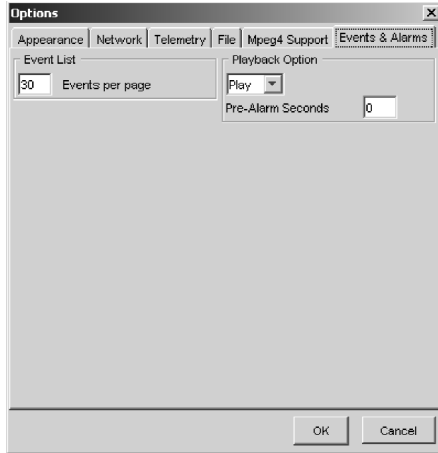
MPEG4 Button

The DV-IP devices can stream real time live video as MPEG4 images. Enabling the display button allows the Operator to switch between viewing either MJPEG and MPEG4 images.

Append Strings

This section is for advanced configuration and it is recommended that only Engineers with experience of appending MPEG4 images configure this section.

7. Select the **Events & Alarm** tab



The DV-IP unit supports an event database, this information can be downloaded from the DV-IP unit to the Viewer. This information can then be viewed by the Administrator/Operator.

Event List This allows the maximum number of events that are to be displayed in a single page.

Playback Option It is possible to define the mode that the Viewer will automatically be switched when an event is selected, the options are: Play, Pause, Fast Forward or Fast Rewind.

Pre-Alarm Seconds - It is possible to identify a set period of time prior to the event that will be displayed when the event is selected from the Event List. This allows the Operator to see the build up to the incident.


Site DataBase Editor

The Site Database Editor utility is part of the DV-IP Viewing application and allows a site structure to be created for each Operator station.

Configuring the Site Database gives the Operator the option to simply select a DV-IP device from a site tree to gain control of the unit.

To create a database, select **Tools -> Site Db Editor**, you will be presented with the database configuration screen

Site Details

1. To create a new site select the New Folder  option. You can now enter the information for the DV-IP into the Site Details page.

Device Type	This identifies the device which is being added to the site database, the options are: Image Server - video server device Remote PC - For future expansion Display Server - video decoder device
Name	This is the name of the DV-IP device, this will already be configured on the Server and should be of some significance for the Operator
IP/URL	This is the IP address or URL of the DV-IP Image Server
Site ID	This is the information that will be displayed in the DV-IP Viewer 2 site tree and it is recommended that the Site ID be the same as the Name already allocated to the Sever (see above)
Site Plan	It is possible to allocate a line diagram (not interactive) of the site that is being monitored by the DV-IP. This is a useful feature when the Operator is responsible for multiple locations

Site Text	This allows information that is relevant to the site that is being monitored to be instantly available within the Viewer, for example the contact details of the site manager
User ID	This is the user ID that has been set on the DV-IP. If this is left blank within this screen a prompt will appear asking for the user ID to be entered when a connection is made to the DV-IP
Password	This is the password that has been set on the DV-IP. If this is left blank within this screen a prompt will appear asking for the password to be entered when a connection is made to the DV-IP
Image Format	The DV-IP can transmit images in live mode as either MPEG4 or MJPEG, this will select the initial image format when making a connection to this DV-IP device
Bandwidth Limit	If a limit has been set on the network for the available bandwidth for video then this can be reflected in the Viewer. Entering the limit will ensure that the link between the Viewer and the DV-IP does not exceed the allocated bandwidth set
WAN Mode	For network links that are less than 128Kbits/s (16 Kbytes/s) select the WAN option to guarantee a smooth camera selection over a low speed link. Note: For lower bandwidth connections it is recommended that Medium resolution should be selected, this will re-compress the video by a half during replay
On connection show camera	If a specific camera is to be automatically displayed when the Viewer connects to a particular server this can be identified within this section.
Relay Mode	There are two options Single or Multi Single – Sets the system to only allow a single relay to be selected at any one time Multi – Sets the system to allow multiple relays to be selected at the same time
Live Image Res	It is possible to identify the resolution of the image that will automatically selected for Live mode when connecting to the DV-IP.
REPLAY Image Res	It is possible to identify the resolution of the image that will automatically selected for playback mode when connecting to the DV-IP.
Display Mode	When making an connection from the DV-IP Viewer it is possible to identify a display mode that will be automatically selected on connection to the unit, the options available are Full, 4 Way, 9 Way and 16 Way
Codec Addr	It is possible to display video from the DV-IP video server on a CCTV monitor using a DV-IP Decoder. A connection between the video server and decoder can be automatically created when the DV-IP Viewer connects to the video server, enter the IP address of the DV-IP Decoder that the images will be sent to
Codec Monitor	The DV-IP Decoder supports up to five monitor outputs, select the monitor output the image will be routed to
Persistent	If the connection is to be permanently established enabled the persistent link option

Relays

This section is for future expansion.

2. Select the **Relay** tab.

	Header		
Enabled	Text	URL	
Relay 1	<input checked="" type="checkbox"/>		
Relay 2	<input checked="" type="checkbox"/>		
Relay 3	<input checked="" type="checkbox"/>		
Relay 4	<input checked="" type="checkbox"/>		
Relay 5	<input checked="" type="checkbox"/>		
Relay 6	<input checked="" type="checkbox"/>		
Relay 7	<input checked="" type="checkbox"/>		
Relay 8	<input checked="" type="checkbox"/>		

Save

Header	This is the title that will be shown on the DV-IP Viewer 2 for the associated relay buttons
Enabled	Each relay output can be enabled individually
Text	This text will be displayed within the DV-IP Viewer 2 and should have some significance to the control
URL	Not currently supported

FTP/Backup

This tab allows the Administrator to identify the folders that will be downloaded from the DV-IP.

The default settings will ensure that any file that can be edited for configuration of the unit will be downloaded.

As there is sufficient capacity on the DV-IP it is possible to store files on the hard disk along with the configuration files. This feature allows site Administrators to save site information in a single location that can be accessed from any point on the network, this could allow Installer's to access information relevant to the site information from any location.

3. Select the *FTP/Backup* tab

FTP
User ID Password

Default type of back up
 Configuration Web pages and Application binary Log files

Server path of Configuration files

Server path of Log files

Server path of Web pages and Application files

Max attempts to connect to site

Max attempts to download to each file

FTP

This identifies the FTP username and password as previously configured on the DV-IP – default is dm and ftp

Default type of backup

It is possible to enable/disable the three options; Configuration files, Web pages and Application binary files and Log files. Disable the files that are not of interest – default all options are enabled

Server path of Configuration files

This identifies the path on the DV-IP where the configuration files are saved and ensures all the necessary files are downloaded – default
app_drive\etc;app_drive\frm_data

Server path of log files

This identifies the path on the DV-IP where the log files are saved and ensures all the necessary files are downloaded – default data_drive\logs

Server path of web pages and Application files

This identifies the path on the DV-IP where the web pages and application files are saved and ensures all the necessary files are downloaded -
app_drive\bin;web_drive\webpages;web_drive\frmpages

Max attempts to connect to site

This allows the maximum number of attempts to connect to the site to be identified

Maximum attempts to download to each file

This allows the maximum number of attempts to download to each file to be identified

Debug



Note: This tab is not available when Remote PC option is selected. This option may alter with future releases of the DV-IP Viewer.

The Debug option allows strings to be tagged on when requesting MPEG4 video. It is recommended that Engineers with experience of MPEG4 video should configure this section only.

4. Select the **Debug** tab

Debug Strings

Always Sent

Hi res

Med res

Lo res

Save

Site Details
Relays
Debug

DV-IP Viewer Controls

The DV-IP Viewer allows the Operator to control the functionality supported on the DV-IP devices. The Operator controls within the Viewer are described within this section, this will be separated into:

Connecting to the DV-IP unit via the Viewer

Common controls - available in both Live and Playback mode.


Live mode only - available only in Live mode.

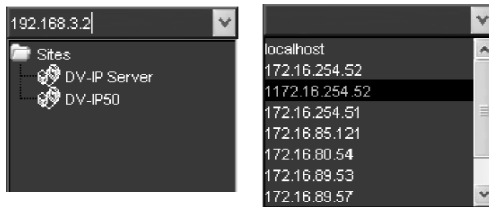
Playback mode only - available only when reviewing recorded video.

Miscellaneous - additional functions that are not related to the operation mode.

Connecting to a DV-IP video server

To connect to a DV-IP device:

1. Enter the IP address or URL of the unit in the address section of the viewer, or if a site database has been created select the relevant unit from the site tree. If the address section is used the last 10 addresses are saved and can be accessed by clicking on the  button, the saved address will be displayed.



2. Select the Connect button, it may take several seconds to make the connection the time period will be dependant on the network connection.



Common Controls

It is possible view live video or playback recorded video. The functionality (buttons) available in both the Live and Playback mode are described below.

Camera Selection



The camera selection buttons are used to view any of the video inputs on the DV-IP device in Live or Playback mode.

These keys will be active for the cameras that have been enabled on the unit itself or where recorded images are available for the corresponding input; any 'greyed out' camera buttons shows that either the video input is not enabled or there are no associated video recordings.

Selecting one of the camera keys will display the video images in the selected display segment.



Note: If the DV-IP Server has been configured to identify camera failure a Camera Fail Image will be displayed on the relevant input, this is a colour chart with vertical bars.

Display Mode



The DV-IP Viewer supports multiscreen viewing to allow numerous video images to be viewed simultaneously. The display option can be selected from the drop down list. Images in Live and Playback mode can be viewed in any multiscreen format.



Note: Refer to Appendix A for full details on the display options available.

Single

A single video image of the selected camera will be displayed in live or playback mode. If selected the last camera selected will be displayed.

Quad

A quad display will show the camera selected and the next three sequential (enabled) video inputs, e.g. cameras 4, 5, 6, 7. If the sequential video inputs are not enabled then a blank screen will be displayed in live or playback mode.

Instead of displaying sequential images it is possible to select which camera is to be viewed in each segment. Click on a segment to highlight it and press the corresponding camera button to be displayed.

Picture in Picture

It is possible to display a picture as an overlay of the main picture, this can be a single or quad display. When a picture in picture display is selected the main window will display the last selected camera and the sequential image(s) will be displayed within the inlay section.

Instead of displaying sequential images it is possible to select which camera is to be viewed in each segment. Click on a segment and press the corresponding camera button to be displayed.

Up to a 16 Way view can be selected in a number of variants, allowing all enabled images to be displayed simultaneously.

Multiscreen

It is possible to identify where video inputs are to be viewed within the multiscreen, select the relevant segment (double click on the segment) and press the corresponding camera button for the live or recorded image to be displayed in that segment.

Resolution Selection



It is possible to select the resolution of the image being viewed (Live and Playback), this feature is useful when a slow speed link is being utilised for remote monitoring, and reducing the resolution will reduce the amount of information that is being transmitted from the DV-IP device.

The settings for actual resolutions which corresponds to the options available (High, Medium, Low) are configured with the Camera Set-up page of the DV-IP device; these settings include the **resolution** and **file size** which will be associated with the resolution buttons.



Note: The DV-IP device is able to re-compress recorded images during the playback process; this will reduce the size of the video image when using a slow remote link.



High resolution is the optimum video image that will have a set resolution and files size associated – **Live and Playback mode**



Medium is a low quality video stream that is sending less information with a reduced file size – **Live and playback mode**



Low is the lowest video quality and has a low file size allocated, this would be the most appropriate option when utilising slow speed network links – **Live mode only**



Note: If more than one user accesses the Live web page it is possible to have the same image being viewed at different resolutions.

Audio Control



The DV-IP supports bi-directional communication. The audio controls allow audio connections to be established between the PC application and the DV-IP device allowing live audio to be transmitted/received. These controls are also enabled in playback mode if audio has been recorded alongside the video, the Operator can then use the speaker buttons to hear the audio while reviewing the video images.

The audio buttons can be momentary or latched. To select momentary control press the relevant audio button using the left mouse key, pressing and holding will keep the button enabled. To select latched control press the relevant audio button using the right mouse key, the button will remain latched until selected again.



Note: To select a latch button use the left mouse key to switch the function off.

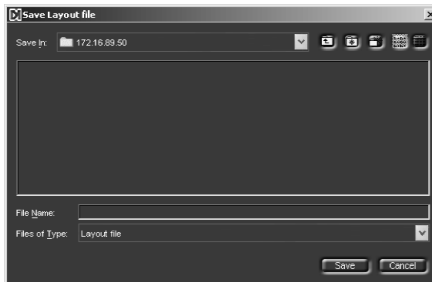
Freeze on a Single Image

It is possible to use the VCR pause button in live mode to freeze the image that is being displayed. This allows an Operator to view in more detail the frozen image to determine if an incident is occurring.

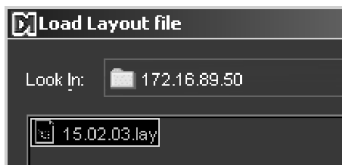
Freezing the live video will not affect the recorded images.

Save/Load a View

It is possible to save a View, the viewer will remember the images that are being displayed when the view is saved and also the location if a multiscreen is selected. This view can then be selected at a later time and the images will be automatically displayed in the correct location.



To save a View press **<Ctrl + S>**, enter the name and location where the view will be saved.

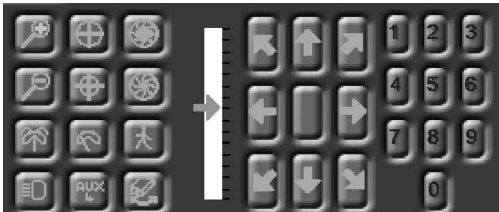


To load a View press **<Ctrl + L>** and select from the list for the relevant View. The View will be automatically displayed.

Live Mode Controls

These are the controls that are available when controlling images from the DV-IP video server in Live mode operation.

PTZ Control



It is possible to select and control any of the cameras connected to the video inputs on the DV-IP Server, if any of these cameras are functional PTZ or dome cameras then this control includes PTZ functionality, such as pan, tilt, zoom, focus, auxiliaries and goto preset position.



Zoom control – zoom in on an object, zoom out for full view



Focus control – focus on an object close to the camera (near), focus on an object in the distance (far)



Iris control – open iris to let more light into the image, close iris to reduce the amount of light



Autopan – automatically move the camera between two pre-defined preset positions



Auxiliary control – wash the glass on the camera housing, wipe any water from the glass on the camera housing, switch lamps on and off,



Numeric keypad – This is used in conjunction with presets and patrol mode and allows the relevant number to be selected



Patrol Mode – A patrol mode can be stored within the PTZ/dome camera. Select the patrol number from the numeric keypad and then the patrol key



Pan and tilt control – move the camera by using the pan and tilt buttons, the arrow shows the direction the camera will move



MPEG4/MJPEG - The DV-IP video server can transmit either MPEG or MJPEG video images, it is possible within the viewer to switch between the two compressions.



Note: This button can be removed in the Options menu, this is recommended if MPEG4 compression is not being used so the Operator does not accidentally switch between the two options.

Important Information

It is possible to use VMD (Video Motion Detection) on moveable cameras, however to ensure that moving the camera does not trigger false alarms the VMD will only be active when the dome is in preset position 1 (home position). This ensures that VMD is only active when the camera is viewing the field of view that the VMD mask corresponds to, moving the camera away from preset 1 will automatically inhibit VMD detection on the camera. As soon as the camera receives the command to 'return to home' the VMD will be automatically re-enabled.



Note: It is necessary for the 'return to home' command to be issued so that the DV-IP Server is aware the camera is back at preset position 1, leaving the camera to return to preset 1 after a dwell time will not be sufficient to re-enable the VMD functionality.

Playback Mode Controls

In playback mode it is possible to use the VCR keys to control the images being reviewed. There are a number of options available when playing back a video image;



Play - playback the video from the camera selected or highlighted an alarm file



Fast rewind - move quickly back through the recorded video



Fast forward - move quickly through the playback video



It is possible to increase the speed of the video in playback mode. When fast forward or rewind have been selected, the speed of the video can be increased by up to 1000 times the normal speed by selecting one of the options from the drop down list.



Pause - stop the video on a particular image.



Note: When paused the Rewind and Fast Forward buttons change to frame back and frame forward.

Miscellaneous Controls

There are a number of additional features of the DV-IP Viewer 2 that can be used to enhance the Operator control as described above.

Event List

The DV-IP logs every event (as configured in the web configuration pages) to an event database. It is possible to download the information from the DV-IP unit to the Viewer to review the list and select any associated files to playback the recorded images.



When the Event List button is selected the event list will be displayed as an additional tab on the viewer allowing you to switch between the event list and live view.

Date & Time Of Alarm	Camera	Alarm Text	Video
28-Oct-2004 15:03:07	2	Camera Restored	No
05-Nov-2004 22:51:32	0	System Startup	No
05-Nov-2004 22:53:21	0	System Startup	No
05-Nov-2004 22:55:11	0	System Startup	No
05-Nov-2004 22:55:34	0	System Startup	No
05-Nov-2004 22:56:13	0	System Startup	No
10-Nov-2004 12:08:24	0	System Startup	No
10-Nov-2004 15:52:42	0	System Startup	No
12-Nov-2004 15:40:56	0	System Startup	No
24-Nov-2004 16:30:15	0	System Startup	No
30-Nov-2004 09:27:01	0	System Startup	No
30-Nov-2004 09:31:19	0	System Startup	No
01-Dec-2004 09:56:00	5	Camera fail	No
01-Dec-2004 09:56:01	5	Camera Restored	No
01-Dec-2004 10:06:35	1	Camera fail	No
01-Dec-2004 10:06:37	1	Camera Restored	No
01-Dec-2004 10:08:56	4	Camera fail	No
01-Dec-2004 10:09:04	4	Camera Restored	No
06-Dec-2004 12:38:05	0	System Startup	No
20-Dec-2004 16:09:42	2	Camera fail	No
21-Dec-2004 11:13:24	0	System Startup	No
21-Dec-2004 11:13:33	2	Camera fail	No
18-Jan-2005 17:29:59	0	System Startup	Yes
18-Jan-2005 17:30:00	2	Camera fail	Yes
20-Jan-2005 17:29:28	0	System Startup	Yes
20-Jan-2005 17:29:50	2	Camera fail	Yes
21-Jan-2005 16:03:34	0	System Startup	Yes
21-Jan-2005 16:03:35	2	Camera fail	Yes



Previous



Next

Using the previous and next buttons allows you to step through the events. If an event exists (has an associated file still stored on the DV-IP) when this file is highlighted the associated video image will automatically be displayed. The previous and next buttons will then move you to next image in the event list.

Download Images



It is possible to select a time period and download all associated images to the local PC. These files can then be played back using the DV-IP Viewer 2, refer to Replay Server section below.

MJP file

The screenshot shows a dialog box titled "Download video...". It has two radio buttons for "MJP" (selected) and "VID/IDX". Below are fields for "Select time period to download" with "From" and "To" date-time pickers set to "28/01/05 08:18:41". There is a field for "Enter GMT offset in minutes" set to "0". A "Save file as:" field with a "Browse..." button is present. Under "Select cameras to download", there are radio buttons for "1-16", "17-32", "33-48", and "49-64", with "1-16" selected. Below are 16 checkboxes for individual cameras, numbered 1 through 16. A "Start Download" button is at the bottom. At the very bottom, it shows "Overall Progress:" and "Current Status: Idle" with a progress bar at "0%".

VID/IDX Files

The screenshot shows a dialog box titled "Download video...". It has two radio buttons for "MJP" and "VID/IDX" (selected). Below are fields for "Select time period to download" with "From" and "To" date-time pickers set to "28/01/05 08:18:41". There is a field for "Enter GMT offset in minutes" set to "0". A "Save files in:" field with a "Browse..." button is present. Below that, it says "Enter FTP username and password:" with fields for "FTP Username:" (containing "anonymous") and "FTP Password:" (containing "*****"). A "Start Download" button is at the bottom. At the very bottom, it shows "Overall Progress:" and "Current Status: Idle" with a progress bar at "0%".

When you select the download key you will be presented with the Download screen. You will need to identify the file type, time and date (either 'to' and 'from' or 'from' and 'for'), cameras that are to be included in the download and the file name and location. Select **Download** to download the images.



Note: If VID/IDX is selected it will be necessary to enter the User name and Password for creating an FTP connections from the PC to the DV-IP device.

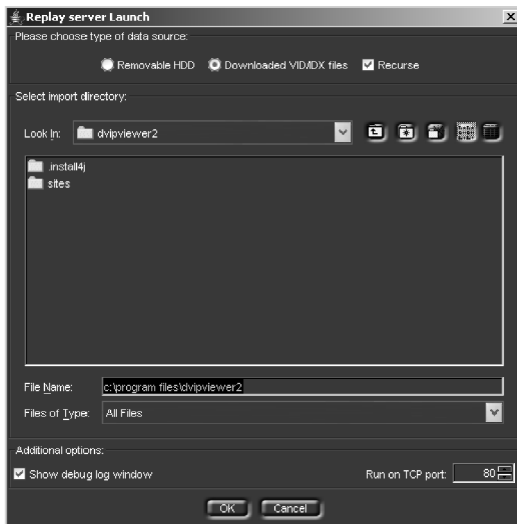
The VID/IDX images can be reviewed using the DV-IP Viewer in Replay Server mode, *refer to the Additional Functionality section below.*

Additional Functionality

Replay Server

The DV-IP Viewer can be used as a replay server to allow recorded images (that have been downloaded from a DV-IP unit to the local hard drive or are stored on a removable hard drive) to be played back through the viewer application without the need to connect directly to a DV-IP device.

Selecting this option presents a configuration screen to allow you to select where the stored images are located.



Note: If a removable hard drive is to be reviewed this must be connected prior to selecting this option.

1. Select the **source type** (Removable HDD or Downloaded files)
2. Select the **directory** where the images are, use the buttons to locate the files.



Go up one level



Select desktop



Create a new folder



List information



Show details on files

3. Enter the necessary information in the **Additional Information** section. Enabling **debug** will automatically show the debug window. Enter the **TCP** port that the connection will be made, the default port number is 80.
4. Click **OK**, the DV-IP viewer will locate the files.
5. The Viewer now needs to be instructed to connect to the 'local drive' of the PC to allow the images to be reviewed, this can be achieved in one of two ways
 - a. Enter '**localhost**' in the address and click **Connect**



- b. Enter '**127.0.0.1**' in the address and click **Connect**

A camera fail image will be displayed.



6. Select **Play** or **Rewind** for the recorded images to be displayed. You will now have the standard playback controls.



Note: The Replay Server emulates the replay functions of a DV-IP Server. Once the replay server is started other PC's running DV-IP Viewer can also connect to that PC to view recorded images.

Appendix A

Display Options

There are a number of screen displays supported within the viewer, any of these can be selected from the drop down list.

The following shows the screen displays along with the default camera positions when the associated display option is selected.



Single image



4 Way



9 Way



16 Way



4 (TL) plus 3



4 (TR) plus 3



4 (BL) plus 3



4 (BR) plus 3



8 Plus 2 (TL/TR)



8 Plus 2 (BL/BR)



8 Plus 2 (TL/BL)



8 Plus 2 (TR/BR)



12 Plus 1 (TL)



12 Plus 1 (TR)



12 Plus 1 (BL)



12 Plus 2 (BR)



P in P (TL)



P in P (TR)



P in P (BL)



P in P (BR)



4 Way P in P (TL)



4 Way P in P (TR)



4 Way P in P (BL)



4 Way P in P (BR)

Dedicated Micros Ltd.

11 Oak Street, Swinton,
Manchester. M27 4FL,
United Kingdom
Tel: +44 (0) 161 727 3200
Fax: +44 (0) 161 727 3300

DM France

9-13 rue du Moulinet
75013 Paris
France
Tel : +33 (0) 1 45 81 99 99
Fax : +33 (0) 1 45 81 99 89

Dedicated Micros USA.

23456 Hawthorne Blvd. Suite 100,
Torrance, CA 90505, USA
Tel: +1 310 791-8666
Fax: +1 310 791-9877

Dedicated Micros Europe

Neckarstraße 15,
41836 Hückelhoven, Germany
Tel: +49 2433 5258-0
Fax: +49 2433 5258-10

Dedicated Micros USA.

14434 Albemarle Point Place, Suite 100,
Chantilly, Virginia 20151 USA
Freephone: 800 864 7539 Tel: +1 703 904 7738
Fax: +1 703 904 7743

Dedicated Micros, Australia PTY.

5/3 Packard Avenue, Castle Hill,
NSW 2154
Australia
Tel: +612 9634 4211
Fax: +612 9634 4811

Dedicated Micros, Asia PTY

16 New Industrial Road,
#03-03 Hudson Techno Centre,
Singapore 536204
Tel: +65 62858982
Fax: +65 62858646

Dedicated Micros (Malta) Ltd.

UB2 San Gwann Industrial Estate,
San Gwann SGN 09 Malta
Tel: +356 21483 673
Fax: +356 21449 170

Dedicated Micros Middle East

Building 12, Suite 302,
P.O. Box 500291, Dubai Internet City,
Dubai, United Arab Emirates
Tel: +971 (4) 390 1015
Fax: +971 (4) 390 8655