

DVR User Guide_{rev1.1}



A UTC Fire & Security Company

Contents

In This Issue:	ii
Front Panel Indicators and Controls	1
DVR Front Panel Numeric/Alpha Key Controls	2
IR Remote Control	3
IR Remote Control Setup and Configuration	3
USB Mouse Control	4
Start Up	4
Record Status Bar	5
Alarm Status Bar	5
Menu Descriptions	6
Menu Operation	6
Main Menu Description	6
System Setup	/
	0
Programming Users and Passwords	8
Add a User Select User Permissions	9 10
User Rights Description	10
Delete Ŭsers	11
Display Menu	12
Image Menu	14
Recording Menu	21
Manual Recording	25
Davback	26
SmartSearch (Motion History)	20
Event Playback	30
Notwork Monu	21
	35
Exception Menu	39
PTZ Menu	40
RS232 Menu	45
Preview Menu	46
Transact(ion) Menu	47
Utilities Menu	50
Tools	51
Restore Para(meters)	53
Upgrade Hard Disk Management	53
Stop AlmOut	55
Reboot	55
Power Off	55
VIEW LOG	55
DVP Poar Panel Connections	
index	60

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WARNING: Changes or Modifications not expressly approved by VEREX Technology could void the user's authority to operate this equipment.

In This Issue:

Rev1.1 VeDVR User Guide

• Multi-Language release: English, French, Spanish.

Refer to the Table of Contents or Index for the following updates:

- Expanded Daylight Savings Time description.
- Expanded Event Playback description.
- Expanded Multicast description.
- Expanded Email description.
- Revised RSE section.
- Expanded Utilities/Tools/Para In-Out USB description.
- Expanded Utilities/Tools/HDD Change Information description.
- "NOTES" added to Utilities/Hard Disk Management.
- Expanded Utilities/Stop AlmOut description.

EN 55022 Statement:

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

ICES003 Statement:

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

FCC Statement

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 operation.

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

CAUTION: Changes or modifications not expressly approved by UTC Fire & Security (UTCFS) or one of the UTCFS member companies may void the user's authority to operate this product.

This device is intended for use in professional security environments by trained personnel.

There are **NO** user serviceable parts in this device. Any service required must be undertaken by trained personnel.

If the unit arrives in an obviously damaged condition, do not attempt to power or use the unit. Contact your sales representative to arrange a replacement.

Use the power cord supplied with the unit to connect to AC power supply. The circuit supplying the unit must have branch protection in accordance with the appropriate governing electrical regulations. Only connect the unit to a properly grounded receptacle. If a suitable, grounded, power supply receptacle is not available contact a qualified electrician to have one installed.

Welcome

For further information, refer to 21-0420, DVR Installation Guide and 21-0422, DVR PC Software User Guide

Front Panel Indicators and Controls







Index	Name	Description
1	Camera Indicator Lights	Blue = recording, Red = network transmission, Purple = recording and network transmission.
	READY	Blue = DVR is ready.
	IR	Blue = IR remote control is programmed.
2	ALARM	Red = alarm
Activity MODEM		Blue = modem connection and dial-up successful
Lights	HDD	Flashing red = reading or writing HDD
Lights	LINK	Blue = network connection is OK
Tx/Rx		Flashing Blue = data is being transmitted over the network.
	POWER	Blue =Unit Power On or Red = Stand-by.
	F1	LIGHT in PTZ control.
	F2	AUX in PTZ control.
3	F3	Input switch (number, lower case, upper case and symbol). "IRIS+" in PTZ control. Preview Mode: hide or display channel status bar.
	F4	"IRIS –" in PTZ control
4	PTZ Control	Enter into Pan, Tilt, Zoom camera operation. "FOCUS +" in PTZ control.

Front Panel Indicators and Controls cont.

Index	Name	Description			
5	EDIT	In camera preview mode cycles through various camera inputs based on the current display mode. Deletes current cursor character. "ZOOM+" in PTZ control. Select ✓ or × to enable or disable menu selections. Opens an Editing field.			
6	ENTER	Menu confirmation. Press ENTER to accept changes or to enable/disable a parameter. Pause playback. Press Enter to turn on DVR when it is in Stand-By Power from being Powered Off in the Utilities Menu.			
	Navigation Control	In Menu: use the ◀ left, right ► arrow keys to make a selection, use the ▲ up, down ▼ arrows to edit selections. In PTZ: direction controls. Playback speed control.			
7	MENU	Switch the display to the menu. Wiper control in PTZ mode. Press and hold for 5 seconds to stop key stroke tones.			
	ESCAPE	Cancel and back to parent menu or cancel changes while editing a field.			
8	RECORD	<i>I</i> anual record. "FOCUS –" in PTZ mode (adjust preset).			
9	PLAY	Local Playback. Event Playback screen. "ZOOM –" in PTZ mode			
	PREV	Single or Multi screen preview switch. Switch menu mode into preview. In PTZ Mode: this button acts as "SHOT" and is used to select a preset PTZ value (i.e., Pressing "SHOT" and then 001 would send the PTZ camera to Preset #1).			
10	SPOT	The "SPOT" button alternates control between the MAIN monitor and the AUX monitor. Connect an AUX monitor and turn on the Status Bar. A check-mark will display on the Main monitor (lower right corner) and an 'X' on the AUX monitor. Press "SPOT" and the checkmark and "X" should switch showing that the AUX monitor is now the primary output. Note that the AUX monitor will not display the OSD menu. In PTZ Mode: this button acts as "AUTO" and when pressed, it begins an auto pan of the selected PTZ camera.			
	Numerical Keys	Keys for Numeric/Alpha entries.			

DVR Front Panel Numeric/Alpha Key Controls

The numeric keys used on the front panel and remote control are the same as a mouse control provides when the mouse is left clicked.

- Press the "F3" key to change the numeric/alpha method to Number, Uppercase Letter, Lowercase Letter and Symbol
- When in alpha (letter) mode, upper or lowercase, pressing the number key repeatedly will move the selection through the letter choices.

0	1	2(abc)	3(def)	4(ghi)	5(jkl)	6(mno)	7(pqrs)	8(tuv)	9(wxyz)
---	---	--------	--------	--------	--------	--------	---------	--------	---------

• When in the symbol mode, pressing the "0" (zero) key increments through the following pages:

Key:	1	2	3	4	5	6
Page 1	[spacebar]	. [period]	, [comma]	? [question]	! [exclamation]	: [colon]
Page 2	; [semi-colon]	- [dash]	+ [plus]	# [pound]	* [asterisk]	([open para]
Page 3) [close para]	/ [forward slash]	' [apostrophe]	" [quotes]	_ [underscore]	@ ['at' sign]
Page 4	& [ampersand]	\$ [dollar]	\ [back slash]	< [arrow left]	> [arrow right]	= [equals]

IR Remote Control

All actions on the front panel can also be done on the remote control.

		Index	Name	Description
	-2	1	POWER	Turn device on/off
ABG DEF		2	DEV	Enable/Disable IR remote control
	— 3	3	Numeric Keys	Same as numeric keys of front panel
Rors TUV WXVZ		4	EDIT	Same as EDIT key of front panel
	—5	5	A	Same as F3 key of front panel
	-7	6	REC	Same as REC key of front panel
	-9	7	PLAY	Same as PLAY key of front panel
	11	8	INFO	Same as INFO key of front panel
		9	VOIP	Same as [Main/Aux] key of front panel
	-14	10	MENU	Same as MENU key of front panel
	15	11	PREV	Same as PREV key of front panel
	-16	12	Direction Keys ENTER	Same as direction keys and enter key of front panel
	-18	13	PTZ	Same as PTZ key of front panel
		14	ESC	Same as ESC key of front panel
		15	Reserved	Not Used
		16	F1	Same as "F1" key of front panel
		17	Lens control in PTZ mode	IRIS, FOCUS ZOOM for lens control
		18	F2	Same as "F2" key of front panel

IR Remote Control Setup and Configuration

Loading the batteries into the Remote Control

- 1. Remove the battery cover.
- 2. Insert the batteries. Make sure the polarity (+ and –) of the batteries is correct.
- 3. Replace the battery cover.

Using the IR controller

- 1. Press "DEV".
- 2. Input the DVR Device ID (The default is 88).

NOTE: Refer to the Display Menu section to program the Device ID.

3. Press "ENTER". The STATUS lamp on the DVR front panel will turn on. The Remote Control is now ready to be used with the DVR.

Turn off the IR Remote Control

While the Remote Control status LED is on, press "DEV". The STATUS LED will turn off. The Remote Control will no longer control the DVR.

Trouble Shooting the Remote Control

If the Remote Control does not function correctly;

- Ensure the batteries are installed correctly.
- Replace the batteries with new ones.
- Reprogram the Device ID into the Remote Control.

USB Mouse Control

Plug a USB mouse into the USB connection on the DVR's rear panel. A mouse will duplicate any of the front panel control selections described in this guide. The front panel control described to operate the screen selection can be operated by the mouse by clicking on the selection with the mouse pointer.

Left click to select or edit.

Right click to cancel or exit (or display menu in live view)

A mouse wheel can be used to change cursor location in the edit field or cycle through e.g. days, months, years.

Right click the mouse in the "Camera Views" screen for the Main Menu:

- Single Camera View
- Multiple Camera Preview
- Next Preview
- PTZ Control
- Play
- Event Play
- Manual Record
- Close Status
- Switch Vout (Spot button)

Clicking on the password log-in box will display a keyboard selection box. Selections can be made with the mouse pointer to enter characters in the password box etc.

0	1	2abc	3def	4ghi	EDIT
5jkl	6mno	7pqrs	8tuv	9wxyz	F3

Start Up

- With a monitor connected to the DVR, plug in the DVR to an AC mains supply and switch on the power switch beside the electrical power plug on the DVR's back panel.
- The DVR will enter into Preview Mode after it starts up.
- When the Preview Mode screen first opens, a bar with pictures of hard drives will display at the top of the screen. The hard drive that is enabled will appear with a check mark. In this case, hard drive number 3 is present.



- The Preview Mode screen displays the date, time, camera name, camera status icon and the camera's image, if the camera is connected and operational.
- Press the "F3" key on the DVR Front Panel Controls or "A" on the remote control to display or hide the camera status bar. It is off by default. When this bar is visible, it will cover the camera name.



- Status icons displayed at the bottom of the screen represent the condition of each camera connected to the DVR. In this case there are 16 circles and each one represents cameras 1 – 16 on this 16 camera DVR, starting from the left.
- The circles change colors to represent the condition of each connected camera . When a working camera is connected to a channel, the corresponding status circle will switch back and forth from Record to Alarm Status to display dual conditions.

Circle Color	Status Description
White (1)	No video signal.
Yellow 🔴	Video input.
Pink 💛	Manual recording.
Green 🔵	Real time recording.
Blue 🔵	Motion detect recording.
Red 🔴	External alarm recording.

Record Status Bar

Alarm Status Bar

Circle Color	Status Description
White (1)	Video signal lost.
Yellow 🔴	View tampering alarm.
Pink 💛	Motion and External alarm.
Green 🔵	No alarm.
Blue	Motion alarm
Red	External alarm

Menu Descriptions

Menu Operation

Press "MENU" on the DVR controls or remote control, right click a mouse, to enter into the DVR main menu. Select a Username and enter the corresponding password.

Notes: You must input a user name and password. The default user name is "admin" and the default password is "12345". **WARNING:** It is extremely important that default Usernames and default Passwords are changed at the time of installation as a security precaution.

Main Menu Description

Example:



A square surrounds the selected menu icon. The selection square can be moved from one icon to another by using the arrow buttons: " \blacktriangleleft ", " \blacktriangleright ", " \blacktriangle " and " \triangledown ". When the desired icon is highlighted, press "ENTER" to access the secondary menu. Example: highlight the Image icon, press "ENTER" to access the secondary menu as follows:

Example:



Perform the same procedure by using a mouse to point and click on the desired icon. Left click on the icon to open the secondary menu.

Each menu contains different selections to program the DVR with. The selections are highlighted as the menu is navigated. Navigate through the menus by using the left "◀", right "▶", up "▲" and down "▼" arrow keys on the DVR or remote control. Use a mouse to make selections. The following are the different types of menu items:

Check Box

Provides 2 options: "✓" means enable and "**x**" means disable. Use the "ENTER" or "EDIT" keys on the DVR or remote control or a mouse to left click on them and switch between them.

List Box

List boxes provide more than 2 options. However, only one of them can be selected. Press the Edit key, use the "▲" and "▼" arrow keys on the DVR or remote control or a mouse to select the option and press the Enter key. Example: to the right of "Select Camera", there is a list box to select one of the cameras and choose functions for it in the same menu.

Edit Box

Input characters. Press "EDIT" to enter into edit mode and input characters by using the number keypad on the DVR or remote control or left click a mouse to select from an on screen keypad. The number keypad buttons represent different characters depending on the input mode:

- Press "F3" on the DVR controls or left clicked mouse menu or "A" on the remote control to select number, upper case, lower case or symbols.
- Use "◀" and "▶" to move the cursor.
- Use "EDIT" to delete the character in front of the cursor.
- Press "ENTER" or "ESC" to exit edit mode.

Button Text

Do a special function or enter into the next sub-menu. Example: press the Procedure button to enter into the Procedure sub-menu. Press "Confirm" to save the selections made and return to the parent menu. Press "Cancel" to cancel any changes and return to the parent menu. A grayed out button can only be operated after it is enabled.

How to exit menu mode

Press "ESC" until you are returned to the Preview Mode screen.

System Setup

Logging In

The first time you log into the DVR menu system, you must log in as an Administrator. The default user name is 'admin' and the default password is '12345'. WARNING: It is extremely important that default Usernames and default Passwords are changed at the time of installation as a security precaution.

1. Press the Menu button to produce the login box on the screen.



- 2. Select a user (default: admin).
- 3. Move the cursor to the Pass: field.
- 4. Enter your password. (default: **12345**)



5. Press Enter to accept the password and advance the cursor to the "Confirm" button.

	Login	dà la
User: admin		
Pass: +++++		
Confirm	Cancel	

6. Press Enter on the DVR or remote control or left click a mouse on it to confirm your input and enter into the Main Menu.

Main Menu Programming Users and Passwords

A maximum of 16 users can be assigned with various abilities and permissions.

1. From the main menu, navigate to the User submenu.



2. Press ENTER on the DVR or remote control or left click a mouse to select it and display the User submenu.



3. From this menu users can be added or deleted, changed or enter passwords and select user permissions.

Add a User

Default Usernames:	Default Passwords
admin	12345 (all permissions)
operator	11111 (Limited Permissions: PTZ Control and Local Play all channels only.)
investigator	12121 (Limited Permissions: PTZ and Local Output Control, Local Play all channels only)

WARNING: It is extremely important that default Usernames and default Passwords are changed at the time of installation as a security precaution.

1. Move the cursor to Add and press ENTER.

1	admin
2	operator
3	investigator
	Add
Please Input U	JserName
LICED	
USEK	
Enter: Confirm	
Esc : Cancel	
Confirm	Cancel

- 2. Press F3 on the DVR controls or left clicked mouse menu or "A" on the remote control to change the number keypad to the desired function. (I.e. Number, Uppercase, Lowercase or Symbol).
- 3. Set the first username character with the number keypad. The cursor will flash and then go solid indicating the character has been accepted and the DVR is ready for the next character.
- 4. After the username finished, press ENTER.

No).	Name	
1	l	admin	
2	2	operator	
3	3	investigator	
4		USER	
	Add	Delete	
	Password:	******	
	Verify:	*******	
Default P	ermissions	Set Permissions	
	Confirm	Cancel	

The password for any user can be set or changed while logged in as an Administrator.

- 1. Select the user you would like to set or modify the password for.
- 2. Press ENTER.

- 3. Position the cursor to the Password field.
- 4. Press the EDIT button to clear the field and prepare the Password field for entry.
- 5. Using the number keypad enter a password. Passwords can be a maximum of 16 characters long and consist of numbers only.
- 6. Move the cursor to the Verify field and re-enter the same password.
- 7. Move the cursor to the Confirm button and press ENTER.

Select User Permissions

New users have playback rights only. If certain users of the system are to have permission to make configuration changes to the DVR, the Administrator will have to set them. The same as the picture below where "PTZ Control" has been assigned to default rights.

- 1. In the Users menu, use "▲", "▼" keys to select the user name you wish to assign rights to.
- Use "▶" key to navigate to the "Default Rights" button, press "ENTER" on the DVR or remote control or left click a
 mouse on it. The user will have default rights shown in the picture below assigned to them. The default rights
 include local playback, remote playback and view log. A permission such as "PTZ Control" would have to be
 assigned.
- 3. If more advanced rights need to be assigned, use "▶" to navigate to the "Set Permissions" button in the Add/Delete screen and press "ENTER" or left click a mouse on it to select it.



Operational rights are divided into "Local Rights" and "Remote Rights". Assign the necessary rights to the user.

- 1. Use the "◀", "▶", "▲" and "▼" buttons to move to, or use a mouse to select the desired rights item, press "ENTER" or "EDIT" to enable or disable the item. A check mark: "✓" assigns the right to that user.
- 2. When finished, navigate to the Confirm button and press "ENTER". The rights will be assigned to the user.

If the "Cancel" button is pressed, the operation will not be saved and the DVR will return to the User Menu.

3. In the User Menu, navigate to the Confirm button and press ENTER. The user's password and rights will be saved and you are returned to the Main Menu.

If "Cancel" is selected, the user's password and rights will not be saved and the DVR will return to the Main Menu.

User Rights Description

Local Rights (Permissions)

Local rights are for operating the DVR from the front panel, remote control or a mouse.

PTZCtrl	Control PTZ;
Record	Manual start/stop recording;
SetPara	Allow the DVR parameters setup;
Log	Locally view the Event log on DVR;
Utilities	Locally upgrade firmware, format HDD, reboot DVR and shut down DVR, etc.

Remote Rights (Permissions)

Remote rights are for operating the DVR from the DVR PC software program.

PTZCtrl	Remote control PTZ;
Record	Remote manual start/stop recording;
SetPara	Remote setup the DVR parameters;
Log	Remote view the Event log on DVR;
Utilities	Remote upgrade firmware, format HDD, reboot DVR and shut down DVR, etc.
Talk	Client talks with DVR;
Alarm	Remote control DVR alarm output;
LocalOut	Remote control DVR video output;
Com CTRL	DVR RS-232 transparent channel function.

User's (PC) MAC address

This is the MAC address of the PC that will access the DVR. If the MAC address is used, only the PC with this MAC address will be able to access the DVR.

NOTE: If the MAC Address is not known, contact your System Administrator or IT Department.

Camera Authorization

Camera channels can be selected individually for the user to do Local Play, Remote Play or Remote Watch.

Delete Users

- 1. In User Menu, use "▲", "▼" to select one user, then use "▶", to navigate to the Del button.
- 2. Press "ENTER", in the pop-up confirmation dialog, press Confirm to delete the selected user.

Press Cancel or "ESC" to prevent the user from being deleted.



Display Menu

The Display Menu enables global system selections affecting the video output, menu display and date and time.

		D	isplay	
	Langu	tage: Engl	i sh 🜩	
ι	Jnit N	ame: DVR		
I	Device	e ID: 88		
Enable	Pass	rord: 🧹		
Scre	een Sa	aver: Neve	r	
Video	Stand	lard: NTSC		
Enabl	le Sca	aler: 🗙		
Bi	ighti	ness:		
Menu Tra	ispare	ency: No T	rans	
VGA Re	esolut	tion: 800#	600/75Hz	
		DST: Set	tup	
Date:	09	- 29	- 2007	mm-dd-yyyy
Time:	13	: 59	: 36	hh:mm:ss
	Con	firm		Cancel

Language

Select: English, French, Spanish.

Unit Name

Assign the DVR a unique name. The default unit name is "DVR".

- 1. Highlight the Unit Name edit box.
- 2. Press "EDIT" on the DVR controls or the remote control or the left clicked mouse menu.

Press "F3" on the DVR controls or left clicked mouse menu or "A" on the remote control to select the desired keypad functions (Uppercase, Lowercase, Numbers or Symbols).

- 3. Use the DVR or remote control keypad or mouse menu to enter the Unit Name.
- 4. Press "ENTER" on the DVR controls, remote control or mouse menu when finished.

Device ID

The Device ID is used to identify the DVR to the IR Remote Control. Set this number from 01 to 255. Set the Device ID of the IR Remote Control to the same number. If there are multiple DVR's in a room, the remote control will control all units with the same Device ID. The default is "88"

- 1. Highlight the Device ID field and press the Edit key.
- 2. Use " \blacktriangle ", " \blacktriangledown " to change the Device ID.
- 3. Press "ENTER".

Enable Password

A password is required by default to access the Main Menu. A " \checkmark " indicates a password is required and a " \mathbf{x} " indicates that no password is required.

Highlight the "Require Password" field and press "ENTER" or "EDIT".

Screen Saver

Set this selection to determine the timeout which controls how long the system menus are displayed after the last user activity on the front panel/on-screen display/mouse. Available options are NEVER, 1 Min, 2 Min, 5 Min, 10 Min, 20 Min, or 30 Min.

- 1. Highlight the Screen Saver field.
- 2. Use " \blacktriangle ", " \triangledown " to cycle through the available options.

Video Standard (Default: NTSC, PAL is optional)

There is one VOUT BNC connector at the rear panel of the DVR. It is used to connect an analog monitor and supports PAL or NTSC video output. The video output standard can be modified to match the video signal required by the analog monitor. There is also a VAUX BNC connector that a Spot monitor can be connected to for video preview and playback. The VAUX connector is not available on the VeDVR1004 DVR.

- 1. Highlight the Video Standard field.
- 2. Use " \blacktriangle ", " \blacktriangledown " to change from NTSC to PAL.

Enable Scaler

- Turn this feature on when connecting a "CRT" Monitor to the DVR video out connectors.
- This feature will scale down the menu displays so they will not appear cut off on this type of monitor.

Brightness

Control the brightness of the VOUT port of the DVR.

- 1. Highlight the Brightness field.
- 2. Use " \blacktriangle ", " \blacktriangledown " to increase or decrease the brightness.

Menu Transparency (NOTE: Only available on 4 channel DVRs. Not available on 8 or 16 channel DVRs) Choose from 1:3, 1:1, or 3:1 or "No Transparency" to determine the visibility of the Setup Menu with the Preview Mode screen.

1. Highlight Menu Transparency.

2. Use " \blacktriangle ", " \triangledown " to set the desired menu visibility.

VGA Resolution

A standard VGA connection is located at the rear of the DVR. Define the VGA resolution output. The available options are 800*600/75Hz, 1024*768/60Hz and 800*600/60Hz. Use "▲", "▼" to make the selection.

DST: (Daylight Savings Time)

Set a date range for Daylight Savings Time. Highlight Setup at the DST menu item. Press "ENTER". The DST Setup menu is displayed.

NOTE: When DST is enabled the Date/Time stamp which is imprinted on each recorded image will include either "(W") for winter time or "(S)" for summer time.



Enable DST

- 1. Press "ENTER" while the "Enable DST:" selection is highlighted. The "x" will change to a "✓".
- 2. Navigate to the "From" month.
- 3. Use (\mathbf{A}^{*}) , $(\mathbf{\nabla}^{*})$ to select the starting month.
- 4. Use "▶" to move to the week of the month selection.
- 5. Select from 1st, 2nd, 3rd, 4th or last.
- 6. Use " \blacktriangleright " to move to the day of the week selection.
- 7. Select which day of the week DST will start.
- 8. Use " \blacktriangleright " to move to the starting time.
- 9. Set the starting time from 00:00 to 23:00 hours.
- 10. Repeat this procedure to setup the DST "To" selections.

11. Press Confirm to save the settings.

DST Bias

- The "DST Bias" setting allows "fall back" and "spring forward" offsets other than the typical "60min" to be configured. Example: in some regions of the world, the clock is adjusted by 30min instead of 60min.
- DST bias can not be configured using the Remote Station software as of version 1.1.29 of the software.

Date

This is the system date. Using the "▲", "▼" and the "◀", "▶" the system date can be set. The format is mm-dd-yyy.

Time

Using the " \blacktriangle ", " \blacktriangledown " and the " \blacktriangleleft ", " \triangleright " set the system time. The format is hh:mm:ss.

When any or all of the Display Menu selections are completed, "Confirm" must be pressed to save your changes. Pressing "Cancel" will not save the changes.

Image Menu

Set the display properties for each camera, including display status, position and format.



Select Camera

Use the " \blacktriangle ", " \blacktriangledown " to select the camera to set display properties for.

Camera Name

Define a name for each camera.

NOTE: the camera's name cannot be copied.

- 1. Select one camera.
- 2. Highlight the Name edit box.
- 3. Press "EDIT".
- 4. Press "F3" on the DVR controls or or left click the mouse menu or "A" on the remote control for F3, to change the number keypad to the desired function. (I.e. Number, Uppercase, Lowercase or Symbol).
- 5. Use the number keypad to type the camera name in.
- 6. The camera name can be a maximum of 32 characters.
- 7. Press "ENTER" to save the name and exit edit status.

Select the On Screen Camera Name Position

To prevent the camera name from being displayed, disable the check box beside the camera name edit box. **NOTE: When the camera name is not displayed, it is not recorded on a video.** The disabled symbol is "**x**". If the check box is enabled, the camera name can be entered. The Camera Name Position can be copied to any other camera.

- 1. Enable the check box on the right side of the camera name.
- 2. Highlight the "Position" button.
- 3. Press "ENTER" to enter into the camera name position adjustment screen.

- 4. Use the "◄", "▶", "▲" and "▼" arrow keys to move the camera name position around on the screen.
- 5. When the position is chosen, press "ENTER".
- 6. The Image Menu will return.

Brightness, Contrast, Hue and Saturation

Control the video characteristics of the selected camera.

- 1. Highlight the Adjust button on the right side of Brightness, Contrast, Saturation or Hue.
- 2. Press "ENTER". An adjustment slide bar that corresponds to the specific setting will appear with the resulting camera image.
- 3. Use the up, down arrows on the "▲", "▼" to adjust. A preview video image will be changed in real time.
- 4. When the real time video image is satisfactory, press "ENTER" to return to the "Image Setup" menu.

OSD (On Screen Display)

The date and time can be displayed while viewing any camera on the monitor. There are several display modes:

- No Display
- Opaque&Steady
- Opaque&Flashing
- Transparent&Steady
- Transparent&Flashing.
- 1. Highlight OSD.
- 2. Use " \blacktriangle ", " \blacktriangledown " to select the desired setting.

Determine the position of the OSD.

- 1. Highlight the Position button on the right side of OSD and press "ENTER".
- The OSD position setup screen will display. This screen shows the current camera live preview with a grid overlaid on top. There are 22x15 small panes for the NTSC format (default) 22x18 for a PAL format, and the OSD position is in red. Use "◄", "▶", "▲" and "▼" keys to move the OSD position.

Privacy Mask

Sensitive areas in a camera's view can be masked or covered up as needed. These areas will not be previewed or recorded.

- Enable the check box beside Privacy Mask.
- Press "EDIT" to change the selection to "√" or left click a mouse.
- Highlight the Area button on the right side of the mask check box. Press "ENTER" or click on the Area button with a mouse to enter into the mask selection area.



In the mask selection area, there is one small yellow pane on the upper left corner. The screen is divided into 22x15 panes for the NTSC format (default), 22x18 panes for the PAL format.

- 1. Use "◄", "▶", "▲" and "▼" to move the yellow pane to the beginning position of the area to be masked. Or, rest the mouse pointer on the yellow pane. Left click the mouse and drag the area for the mask to the right and down from the start point.
- 2. Press "EDIT". The yellow pane will turn to red.
- 3. Use " \blacktriangleleft ", " \blacktriangleright ", " \blacktriangle " and " \forall " to extend the red pane.
- 4. Once the mask area is set, press "EDIT".

5. Press "ESC" to cancel the mask area.

The maximum mask area size is 8x8 panes and the minimum size is one pane. A maximum of 4 mask areas can be set.

6. Press "ENTER" to return to the Image Menu.

Press F3 on the DVR controls or right clicked mouse menu or "A" on a remote control to clear all the mask areas.

View Tampering

The DVR can generate an alarm if an attempt to block a camera is made.

Use "▲", "▼" on the DVR controls or remote control to select the sensitivity for the View Tampering selection.

• The sensitivity options are: Off, Low, Normal, High

- Selecting Low, Normal or High will activate the Area Setup and Procedure Setup buttons.
- Highlight the Area button and press "ENTER". 1.
- Use "◄", "▶", "▲" and "▼" to move the yellow pane to the desired start position. Or drag the area with a mouse. Press "EDIT". The yellow pane will turn to red. 2.
- 3.
- Use "◄", "▶", "▲" and "▼" to extend the red pane. This red area is the mask area. This red area is the mask 4. area. WARNING: The masked area must not cover a section of the screen from its left side to its right side or from the bottom of the screen to the top. Section off the area with space around it.
- 5 Once the mask area is set, press "EDIT" or right click for mouse selections: confirm, cancel, clear.
- Press "ESC" to cancel the mask area. 6
- 7. After the area is setup, press "ENTER" to return Image Menu. Press "ESC" to abort.

NOTE: Press "F3" on the DVR controls or "A" on a remote control or right click for the mouse menu to clear the view tampering area. Only one view tampering area can be setup for each camera. The view tampering area cannot be copied. If the schedule is modified, the DVR must be re-booted to activate the changes.

Highlight the Procedure button and press "ENTER" to enter into the View Tampering Response menu:

View Ta	perin	g Respo	nse	
AlarmIn Schedule:	Da	y: Mon t		
Period 1: 00	: 00	24	: 00	
Period 2: 00	: 00	00	:00	
Period 3: 00	: 00	00	:00	
Period 4: 00	: 00	00	:00	
Copy to: Mon		Сору		
Control Method:	0	n Scree	n Warning	×
Audible Warning:		Upl	oad To Mai	n PC: 🗙
Trigger Alarm Out: 🗙	1:×	2:>	3: 🗙	4: 🗙
Send Email: 🗙	No	tify RS	E: 🔀	
Confirm		С	ancel	

Alarm in Schedule

Setup a schedule to determine when the View Tampering Alarm will be activated.

Ensure that adequate time periods are set to avoid missing possible occurrences.

When a View Tampering Alarm occurs within the defined schedule, the DVR will respond with one or more of the selectable Control Methods. A maximum of 4 periods can be setup for each day of the week. The schedule of one day can be copied to another.

NOTE: Time periods in one day cannot be repeated.

- 1. If a View Tampering Alarm has occurred during the defined schedule, the DVR will respond based on the procedure selections. One or more selections include:
- On Screen Warning
- Audible Warning
- Upload to Center (send exception information to the central host PC)

- Trigger Alarm Output.
- Send Email
- Notify RSE
- 2. Use "▲", "▼" and "EDIT" on the DVR controls, remote control or left click a mouse to enable or disable each option. "**x**" is disable and "✓" is enable.
- 3. Press the Confirm button to save the selections and return to the Image menu. Pressing cancel will not save the changes and will return to the Image menu.

Signal Loss

If there is a problem with the video camera or cable, the video image is lost. If the video loss alarm is enabled, the DVR will generate an alarm.

- 1. Highlight the list box on the right side of the Video Loss selection and press "EDIT" on the DVR controls, the remote control or left click with a mouse.
- 2. Use "▲", "▼" to select the response option: Ignore or Active and highlight the Procedure button on the right.
- 3. Press "ENTER" to open the Video Signal Loss Response selection screen:



Alarm in Schedule

Setup a schedule to determine when the Video Signal Loss Alarm will be activated.

Ensure that adequate time periods are set to avoid missing possible occurrences.

When a Video Loss Alarm occurs within the defined schedule, the DVR will respond with one or more of the selectable Control Methods. A maximum of 4 periods can be setup for each day of the week. The schedule of one day can be copied to another.

NOTE: Time periods in one day cannot be repeated.

- 1. When a Video Loss Alarm has occurred during the defined schedule, the DVR will respond based on the procedure selections. One or more selections include:
- On Screen Warning
- Audible Warning
- Upload to Center (send exception information to central host PC)
- Turn on Alarm Output.
- Send Email
- Notify RSE
- 2. Use "▲", "▼" and "EDIT" on the DVR controls, remote control or left click a mouse to enable or disable each option. "**x**" is disable and "✓" is enable.
- 3. Press the Confirm button to save the selections and return to the Image menu. Pressing cancel will not save the changes and will return to the Image menu.

Motion Detection Level

The DVR can be set to perform certain actions based on motion detected in designated areas.

- On the right side of the Motion Det. Level item, there is a list box. It is the motion detection sensitivity. There are 6 options, from 0 (the lowest) to 5 (the highest). Use "▲", "▼" on the DVR control, remote control or left click a mouse to select the sensitivity level. If a low sensitivity such as 0 is selected, the DVR will respond to major motion detected. If a high sensitivity such as 5 is selected, the DVR will respond to minor motion detected.
- 2. Use the " \blacktriangleright " key to move to enable the Motion Detection function.
- 3. Press "EDIT" to change the " \mathbf{x} " to " \checkmark " and enable the feature.
- 4. This will turn on the Area and Procedure selection buttons for Motion Detection.

Motion Area Setup:

- 1. The motion areas must be defined so the DVR will respond to motion detected in those areas. Highlight the "Area" button to the right of the "Mot. Det:" enable "✓" symbol in the "Camera Input Adjustment" screen.
- 2. Press "ENTER", the Motion Area Selection Screen will display.



- When the Motion Detection Area is first opened, it is defaulted to the entire viewing area being enabled for motion detection.
- The screen is divided into 22x15 panes for the NTSC format (default), 22x18 panes for the PAL format. There is one yellow square in the upper left corner.
- 1. Use "◄", "▶", "▲" and "▼" on the DVR controls or remote control to move the yellow square to the beginning position of the area to be masked.
- 2. Press "EDIT". The yellow square will turn to blue.
- 3. Use "◄", "▶", "▲" and "▼" to extend the blue square to cover a larger area. This blue area will not detect motion.
- 4. Rest a mouse pointer on the yellow square. Left click on the yellow square and drag the square to the right and down to cover the desired area with blue squares. This blue area in the image will not detect motion.



- 5. Once the mask area is selected, press "EDIT" to confirm the selection.
- 6. Press "ESC" to cancel the mask area and return to the Image Menu.
- 7. Right click for the mouse menu and selections: Confirm, Cancel, Clear, Full (select the full screen).

Press "PTZ" to set the entire screen as the motion area. Multiple motion areas may be defined. Press "F3" on the DVR controls or right clicked mouse menu or "A" on a remote control to remove all defined motion areas.

After one motion area is setup, press "EDIT", the yellow square will appear again. Repeat the above procedure to setup another motion area.

Clear the Motion Area

- 1. Move the yellow square to the beginning position of the motion area to be cleared.
- 2. Press "EDIT", the yellow square turns into a red square.
- 3. Use " $\mathbf{\nabla}$ ", " $\mathbf{\triangleright}$ " to enlarge or shrink the red area.
- 4. Press "Enter" to save the selection and return to the Image Menu.

Press "ESC" to cancel the selection.

• Optionally, once the Area Motion screen is opened, the entire area can be converted from full coverage to none by right clicking a mouse and pressing "clear" or "F3" on the DVR controls or "A" on a remote control.



Then use the yellow square to select areas for motion coverage.

10-16-2007	Tue 10:02 5	6
물 변경 병 문 병		
왉뼚럜提섆超		Confirm Confirm
		Cancel Resident and a
计照过复 医肾炎		Clean Clean
		Full
(UP) (D(WN] (LEFT) (RIGHT)	:Move;[EDIT]:Select;
곗퓅콁롩 뙍 雅	tP121:Select al	1; IF3J: Clear
e 17 12 12 12 12		
9666 <u>8</u> 66	習識預題勝到	
こぼぼぼう		Camera 1

Motion Alarm Control

- 1. Highlight the Procedure button to the right of the Mot(ion) Det(ection) Area button in the "Camera Input Adjustment" sceen.
- 2. Press "ENTER" to display the Motion Alarm Control menu.

Motion Alarm Control Record Channel: $1 2 3 4 5 6 7 7 8 7$						
9 10 11	12 13 14 15 16					
AlarmIn Schedule: D	ay: Mon					
Period 1:00 :00	24 :00					
Period 2:00 :00	00 : 00					
Period 3:00 :00	00 : 00					
Period 4:00 :00	00 : 00					
Copy to: Mon	Сору					
Control Method: Audible Warning: 🗙	On Screen Warning:╳ Upload To Main PC:╳					
Trigger Alarm Out: 🗙 1: 🗙	2: X 3: X 4: X					
Send Email: 🗙	Notify RSE: 🗙					
Confirm	Cancel					

Motion Alarm Record Channel Setup

When a motion alarm has occurred, the related camera(s) can be turned on to start recording. In the Motion Alarm Control menu, select one or more camera record channels.

• Use "ENTER" or "EDIT" to enable the channel. The "**x**" changes to "✓" to enable the function.

NOTE: Recording must be enabled and the Recording Type must be set to Motion Detection, Motion & Alarm or Motion or Alarm in order for the cameras to start recording when motion is detected.

Alarm in Schedule

Setup a schedule to determine when the Motion Alarm will be activated.

Ensure that adequate time periods are set to avoid missing possible occurrences.

When a Motion Alarm occurs within the defined schedule, the DVR will respond with one or more of the selectable Control Methods. A maximum of 4 periods can be setup for each day of the week. The schedule of one day can be copied to another.

NOTE: Time periods in one day cannot be repeated.

- 1. When a Motion Alarm has occurred during the defined schedule, the DVR will respond based on the procedure selections. One or more selections include:
- On Screen Warning
- Audible Warning
- Upload to Main PC (send exception information to the central host PC)
- Turn on Alarm Output.
- Send Email
- Notify RSE
- 2. Use "▲", "▼" and "EDIT" on the DVR controls, remote control or left click a mouse to enable or disable each option. "**x**" is disable and "✓" is enable.

NOTE: If On Screen Warning is enabled, when a motion alarm occurs and the DVR is in preview mode, the DVR will show the related camera. If more than one camera is activated, the DVR will display them one after another depending on the Display Delay time set in the Preview Menu. When the motion alarm is cleared, the DVR will return to the normal Preview Mode screen.

3. Press the Confirm button to save the selections and return to the Image menu. Pressing cancel will not save the changes and will return to the Image menu.

This procedure can be repeated to setup motion detection for other cameras. These selections for one camera can be copied to any of the other cameras. In "Copy to camera:" enter another camera number and press "Copy"

NOTE: The Motion alarm area can not be copied.

If disabling the motion alarm area and motion alarm procedure, set the Mot.(ion) Det:(ection) Level to disabled or "x".

Recording Menu

Select the Recording Icon from the main menu.

Recording	Channel	Configura	tion	
If HD Full: Overwrit	e \$	Duratio	on O	Days
SATA1 Disk FOR: Backu	р			
Select Camera:	1	Record I	Para: Co	ont.HQ
Camera Name: Camer	ra 1			
Stream Type:	Resolu	ation:	Bit R	ate Type:
Audio&Video	2CIF		Varia	able
Max Bit Rate:	Image	Quality:	Frame	Rate:
384 Kbps	High		8	
Enable R	ec: 🧹 🤅	Schedule		
PreRec Time: 5S		PostR	ec Time	e: 5S
Copy to Camera:	1	Сору	,	
Confirm		Cano	cel	

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "Enter" to save the selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or cancel to not save the changes.

If Hard Drive is Full

<u>Overwrite:</u> When all HDDs in the DVR are full, the DVR will overwrite the earliest recorded files and continue recording.

Stop Recording: When all HDDs in the DVR are full, the DVR will interpret it as a "Hard Disk Full" exception.

Duration Days:

• Enter the number of days before the DVR Stops Recording and generates an alert that it has stopped recording or Overwrites files.

WARNING: Ensure that the days before files are deleted is adequate e.g. enter 30, 60, 90 days. Files will be deleted if there is a short number of days e.g. 7 days.

SATA1 Disk FOR:

• Select if the first hard drive connection should be for Backup or Record. Default is Back-up to an external device using the E-Sata connector on the back of the DVR.

Select Camera:

• Select the camera number connected to the DVR to make recording selections for.

Record Para(meters):

- Pressing the selections on the right of this name will display the video selections for each of the following recording types: Cont. HQ (Continuous High Quality), Cont LQ (Continuous Low Quality), Event (alarm condition).
- The selections for each recording type are displayed on this "Recording Channel Configuration" screen.
- The recording types are assignments for cameras used in the "Enable Rec:(ord)/Schedule screen that is a selection in the lower area of this "Recording Channel Configuration" screen.
- The recording type: "Event" represents all the alarm types e.g. Motion Detection, Alarm, Motion or Alarm, Motion and Alarm

Camera Name:

• The camera name for the camera number displays. This name is defined in the Image Menu.

Stream Type

Audio & Video

Use to record audio and video.

Video

Use to record video only.

NOTE: If Audio recording is disabled, the Remote Station software will still receive live audio from the DVR.

Resolution

The clearness of the image can be improved with a higher resolution selection.

The resolution options are:

NTSC at 30 fps: 176*120(QCIF), 352*240(CIF), 704*240(2CIF), 528*320(DCIF), 704*480(4CIF). PAL at 25 fps: 176*144(QCIF), 352*288(CIF), 704*288(2CIF), 528*384(DCIF), 704*576(4CIF); default selection: 2CIF

For the VeDVR1000 series DVRs: all channels support QCIF, CIF resolutions. Can support 4CIF (4 fps), DCIF (6 fps), 2CIF (8 fps).

For the VeDVR2000 series DVRs: all channels support all resolutions.

Bit Rate Type

Variable

The DVR will adjust the actual bit rate according to the video movement. When there is reduced movement, the DVR will use a low bit rate. When there is a high level of movement, the DVR will use a high bit rate. In this condition, the DVR can save hard disk usage and network bandwidth.

Fixed

The DVR will use the fixed bit rate to compress the image. The bit rate size is defined in the Max Bit Rate option. In this condition, the recorded file size and network bandwidth required can be calculated.

Max Bit Rate

In Variable Bit Rate mode, if the video input has a high level of movement, the max bit rate must be limited. The max bit rate has the following options (bps): 384K (default selection), 32K, 48K, 64K, 80K, 96K, 128K, 160K, 192K, 224K, 256K, 320K, 384K, 448K, 512K, 640K, 768K, 896K, 1M, 1.25M, 1.5M, 1.75M, 2M and By User (custom entry).

The max bit rate selection is related to the resolution. Selecting a high resolution requires a high bite rate. For CIF resolution, the typical max bit rate is 384K-768Kbps. For DCIF resolution, the typical bit rate is 512K-1Mbps. For 4CIF resolution, the typical bit rate is 1.25Mbps-1.75Mbps. Select the proper max bit rate required for the camera, background and image quality.

Image Quality

In Variable Bit Rate mode, the image quality is defined. There are 6 options:

• Higher (default selection), Highest, Lowest, Low, Average, High.

NOTE: A High image quality needs a high bit rate size.

Frame Rate

Frame per second. Options are: 8 (default selection), 10, 12, 15, 16, 18, 20, 22, 30(Ntsc)/25(Pal), 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 6.

Enable Recording

Create a Schedule when recording will occur.

Enable the record feature. Change the "**x**" to a check mark "✓". Press the Schedule button.

All Day Recording selections:

- 1. Use "ENTER" or "EDIT" to enable the recording function and change the "**x**" to a check mark: "✓".
- 2. Press the Schedule button to open the recording schedule menu.

		Schedule	
Day:Mon	All D	ay: 🗾 Rec. Type:	Cont.HQ
	Start Time	End Time	Rec Туре
Period 1:	00 : 00	24 : 00	Cont.HQ
Period 2:	00 : 00	00 : 00	Cont.HQ
Period 3:	00 : 00	00 : 00	Cont.HQ
Period 4:	00 : 00	00 : 00	Cont.HQ
Сор	y to:Mon	Сору	
	Confirm	Cance	1

- 3. Use the arrow keys "▲", "▼" on the DVR controls or remote control or left click a mouse pointer to select a day of the week.
- 4. Highlight the check box on the right side of the All Day item, press "ENTER" or "EDIT" to enable. "**x**" to disable and "✓" to enable.
- 5. Highlight the Rec Type selection. Only one Record Type can be selected in all day recording.

NOTE: Only one Record Type can be selected in All Day recording.

The Recording Type options are:

- Cont HQ (Continuous High Quality): default selection.
- Cont LQ (Continuous Low Quality)
- Cont HQ or IEvt (Event)
- Cont LQ or IEvt
- Mot(ion) Det(ection)
- Alarm
- Mot(ion) or |Alm (Alarm)
- Mot&Alm (Motion and Alarm)
- Command (ATM Command from Serial Port. Refer to the Transaction Menu)

Copy to:

• Select a day of the week or All Days to copy the current selections to and press Copy.

Scheduled Recording

- 1. In the Recording Channel Configuration of the Recording Menu, use "ENTER" or "EDIT" to enable the recording function and change the ×" to a check mark: "✓".
- 2. Press the Schedule button to open the recording schedule menu.

		Sch	edule		
Day:Mon	A	ll Day:	Re Re	с.Туре:	Cont.HQ
	Start 1	ſime	End T	ime	Rec Туре
Period 1:	00 :	00	24 :	00	Cont.HQ
Period 2:	00 :	00	00 ;	00	Cont.HQ
Period 3:	00 :	00	00 ;	00	Cont.HQ
Period 4:	00 :	00	00 :	00	Cont.HQ
Сору	to:Mon		Сору		
	Confir	m		Cance	1

- 3. Use the arrow keys "▲", "▼" on the DVR controls or remote control or left click a mouse pointer to select a day of the week.
- 4. Highlight the check box on the right side of the All Day selection and ensure it is an "x" to disable that function. "x" to disable and "✓" to enable. When the All Day selection is disabled, the Period selections will be enabled.
- 5. There are 4 time periods for one day, and each time period can select a different record type. Input start time and stop time for each time period, and select the Record Type for each period. The Record Type options are the same as the previous All Day Recording selection options:
 - Cont HQ (Continuous High Quality): default selection.
 - Cont LQ (Continuous Low Quality)
 - Cont HQIEvt (Event)
 - Cont LQIEvt
 - Mot(ion) Det(ection)
 - Alarm
 - Mot(ion)IAIm (Alarm)
 - Mot&Alm
 - Command

Ensure that adequate time periods are set to avoid missing possible occurrences.

NOTE: The time periods in one day cannot be repeated.

Copy to:

• Select another day of the week to copy the current day of the week selections to and press Copy.

Notes:

If the record type is "Mot(ion) Det(ection)" or other related motion types, "Motion Detection" must be enabled in the Camera Input Adjustment of the Image Menu in order to turn Motion recording on. If the record type is "Alarm" or other related alarm types, responding to an alarm must be enabled in the Alarm Menu in order to turn Alarm recording on. Time periods are between 00:00—24:00.

Press the Confirm button to save all changes and return to the Recording Menu.

Recording Menu, Recording Channel Configurations cont.

PreRecord Time (Enable Rec(ord) must be checked "
")

When motion detection recording or external alarm recording is enabled, a prerecord time can be defined. The options are: 5 Seconds (default selection), 10 Seconds, 15 Seconds, 20 Seconds, 25 Seconds, 30 Seconds, Max PreRecord, No PreRecord,

MaxPreRecord saves all data in the PreRecord buffer. The PreRecord time is related to the bit rate. A lower bit rate, allows for a longer PreRecord time.

If the bit rate (Max bit rate) is very low, and the PreRecord Time is set to 5 Seconds, the actual prerecord time may be more than 5 seconds. If the bit rate is high, and the PreRecord Time is set to 30 Seconds, the actual prerecord time may be less than 30 seconds.

Post Record Time (Enable Rec(ord) must be checked "√")

Once an external alarm or motion alarm has stopped, the DVR will continue to record for the amount of time set in this selection.

The options are: 5 Seconds (default selection), 10 Seconds, 30 Seconds, 1 Minute, 2 Minutes, 5 Minutes and 10 Minutes.

Copy to Camera

Select another camera to copy the current selections to and press Copy.

Press Confirm to save changes or Cancel to not save changes and return to the Main Menu.

Manual Recording

Requirements to Enable Manual Recording:

- 1. A user who attempts to turn cameras on in Manual Recording must have the "Record" permission enabled in their Permission selections in the User Menu.
- 2. The DVR must have an operational, formatted hard drive connected to it in order to Manually Record. Check the hard disk status in the Utilities Menu to confirm this.

Manual Recording Procedure

- 1. In preview mode, press the "REC" button on the DVR, the remote control or click on it from the on screen menu by right clicking a mouse.
- 2. Enter a name and password in the log on box that appears on screen. Enter "Manual Record" with out having to log in by pressing the "REC" button when in the Main Menu.
- 3. The Manual Record screen lists the camera channels, their status and the option to turn their recording on or off.



Status

• This symbol I indicates that the camera is idle. If it is Green, the camera is recording. This includes real time recording, alarm recording and motion detection recording.

Start/Stop Recording

- 1. Use the DVR face plate or remote control navigation buttons or a mouse pointer to select a "**x**" and click or press "Enter".
- 2. The "x" will change to a "✓" check mark and recording will begin. Re-press a check mark to stop recording.

3. Press "Start All" for all cameras to record or "Stop All" for them all to end recording.

NOTE: If scheduled recording has been set up but the user is currently recording manually, when a channel is stopped or, all channels are stopped, the status light will change briefly to the "**x**" and then back to Green. This means that the DVR has resumed scheduled recording. Press Stop again to completely stop recording.

Press the "ESC" Escape key to exit the Manual Record screen or right click a mouse.

Playback

- 1. In preview mode, press the "PLAY" button on the DVR, the remote control or right-click a mouse to open the menu and them left-click on Play.
- 2. Enter a name and password in the log on box that appears on screen. Enter "Playback" with out having to log in by pressing the "PLAY" button when in the Main Menu.
- 3. The Playback screen will appear with various options:

			Play Back			
Chan:	1	Second:	no	Rec.Type	: All	
Time:	09-27-	2007 00:	00:00 => 0	9-27-200	7 23:59	: 59
Car	d No:			Sma	rt Sear	ch
	Search	En mi	Play	Page No	. 001 /0	01
No.		Time	Length	Card	1.N0	Sel
						10 10 10 10 10 10 10 10 10 10 10 10 10 1
						1 2 24
2.2						
	life in the	150-11/1 [] [] [e Timp 's	
SaveDe	vice: U	SB DISK		Backup	Backup	Today

4. Chan: Select a main camera channel to play back files it recorded.

X X			Play	Back		
Chan:	1	Second:	2	Rec.Type:	A11	

5. **Second:** If the DVR only supports 1 channel playback, a second channel can not be selected. If it does feature a second channel, then both channels can be played at the same time. Select a second camera channel to play back with the main selected channel.

NOTE: F-series DVRs support 2-channel playback. C-series DVRs do not.

- 6. Rec Type: Recording Type. Select: "All", "Continuous", "Motion Detect", "Alarm" or "Manual".
- 7. **Time:** Enter the Date and Time range for the events search. Use numeric keys to input the date and time.
- 8. **Card Number:** The DVR can obtain numeric information using RS-232 or a network port. This information is received from an ATM or POS machine etc. The DVR can overlay this information on the real time image and record. This information can be used to search the recorded files and play them back. Use the numeric keys to input the text number.
- 9. **Search:** Search for the matched recorded files and display them in the list box. A notification box will appear If there is no match.

WARNING: In the Recording Menu, ensure that the days before files are deleted is adequate e.g. enter 30, 60, 90 days. Files will be deleted if there is a short number of days e.g. 7 days.

10. **Play:** Playback the recorded stream directly based on the date and time range.

- 11. **Page Number:** The file list box will display a maximum of 8 files. If the matching files are more than 8, select a page number to list additional files. 500 pages holding 4000 files can be searched for at one time. Enter a page number using the numeric keys or the up/down arrow "▲", "▼" keys.
- 12. File List Box: Will display the matching files. The file number, its start time and length (size).
- 13. **Save Device:** The Backup sources that can be selected to save the files or clips are: USB Disc, USB HD, USB CD/DVDRW, SATA CDRW/DVDRW SATA HD (External HDD on the ESATA rear connector).
- 14. Backup: Begin copying the files.
- 15. Backup Today: Backup all files that occurred during the present day.

Refer to the list of compatible back up media in the DVD Writer disks information in the Utilities/Hard Disk Management menu section of this manual.

Play Back Selections

- 1. Search and Playback File: In the play back screen, select the main channel, second channel (2 channel playback), record type, time section. High light the "Search" button and press the "ENTER" key. The DVR will search and list the matched files. To begin playback on a file, after the search is complete, use the direction arrows to navigate to the list and then use up and down to select the file. Press the Enter button to start playback. Pressing the "Play" On-Screen Display button will begin playback from the first file in the list, like the behavior described in the next section. NOTE: If using the mouse, double clicking on a file will select it and start playback. A single-click will turn on the Select checkmark.
- 2. Sel: The Select checkmark is used to mark files for export.

				Pl	ay Back			
Ch	anne	el: 1	Second:	2		Rec.Type:	A11	
	Time	: 10-30-2	007 00	:00:	00 => 10	- 30 - 2007	23:59	: 59
	(Card No: 🗙				Smai	rt Sear	ch
		Search		Pla	У	Page No.	001 /0	01
	No.	T	ime	G.U	Length	Card	. NO	Sel
	1	10-30-200	7 06:02	: 26	21331k			
	2	10-30-200	7 06:16	:29	7713k			
	3	10-30-200	7 06:19	:12	99k			
	4	10-30-200	7 06:21	:16	23604k			
	5	10-30-200	7 06:29	: 32	167k			
	6	10-30-200	7 07:05	: 40	1418k	N		
	Save	Device: US	B DISK		11111 2000	Backup	Backup	Today

- 3. **Playback by Time:** In the play back screen, select the main channel, second channel (2-ch playback), file type and date and time selection. Highlight the "Play" button with the arrow buttons and press "ENTER" or click on it with the mouse pointer. The DVR will begin playback based on the date and time selection.
- 4. Search by Card No and Playback file: In the play back screen, select the main channel, second channel (2-ch playback), file type, change the card No. search option from an "×" to a check mark "✓" and enter the card number. Highlight the "Search" button with the arrow buttons and press "ENTER" or click on Search with the mouse pointer. The DVR will search and list the matching files.

Video Player Playback Operation

Two Channel Play Back example:



At the bottom of the image(s) when a mouse is connected to the DVR, there are controls and information for the File Video Player.

Using the DVR controls or remote control: (refer to the "Front Panel Indicators and Controls" and "IR Remote Control" sections)

- Display/Hide the controls/information bar: press "MENU".
- Turn sound ON/OFF: press "PLAY".
- Adjust play progress: "◄" (Reverse), "▶" (Forward) in a "%" amount.
- Adjust play speed: Normal speed is "1x". Press "▲" to increase the play speed (2x, 4x, 8x and MAX). Press "▼" to decrease the play speed (1/2x, 1/4x, 1/8x and "Single Frame-by-Frame")
- PLAY/PAUSE: Press "ENTER" to pause/continue playback. If the view is played frame by frame, press "◄" (Reverse) or "▶" (Forward) to play one frame at a time.
- Copy segment: press "EDIT". Press "EDIT" to stop copying. Press "ESC" to confirm.
- Exit: "ESC".
- Playback switch: When in 2 channel playback, press "PREV" to switch between main channel and second channel and back to 2 channel.
- When in Playback pressing the "◀" button at a 30 second interval from the beginning will begin playing the clip from its beginning again. Pressing the left arrow any where in the clip will reverse the clip at 30 second intervals until it returns to the beginning.
- Pressing the "◄" button a second time 30 seconds into a clip will transfer the view to a prior clip in the results list or back to the results list if this was the first clip played or only clip in the list.
- When in Playback pressing the "▶" button at a 30 second interval from the ending will move the clip to its end and stop. Pressing the right arrow less than 30 seconds from the ending will have no effect. The file will continue playing until it reaches its end. Pressing the right arrow any where in the clip will move the clip at 30 second intervals until it reaches the end.
- Pressing the "▶" button a second time 30 seconds into a clip the file goes to the end of the file briefly and then begins playing the next file/clip from the results list or back to the results list if this was the last clip played or only clip in the list.
- When in a single camera playback, press another camera number that recorded at the same time to view that camera's view. Press the previous camera's number to return it. Enter single digits for a 4 or 8 channel DVR. Enter a "0" before single digit camera channels on a 16 channel DVR.

NOTE: When attempting to go backwards or forwards at 30 second intervals in playback while viewing a file with a time/DST (Daylight Savings Time) change, it is only possible to speed up or slow down. The 30 second interval backwards function is not available and attempting to move forwards at 30 second intervals will proceed to the very end of the file.

Using the Mouse control buttons:

Refer to the split screen picture above. Left click the mouse on a button.

Button	Description
1	Reverse PLAY progress. Goes back 30 seconds in timedoes not start rewinding the video. Will go back to beginning of file if less than 30 seconds into playback. If pressed again it will begin playback of the previous search result in the results list. Also used to go backwards in Frame-by-Frame mode.
2	Decrease the play speed (1/2x, 1/4x, 1/8x and "Single – Frame-by-Frame")
3	PLAY/PAUSE
4	Increase the play speed (2x, 4x, 8x and MAX)
5	Forward PLAY progress by 30 seconds. Will also go to next file in the search results list if already at the end of playback of the current file. Also used to go forwards in Frame-by Frame mode.
6	Turn sound ON/OFF.
7	Copy single or multiple segments. Right click when copying is finished to confirm.
8	Hide the controls/information bar. Right click the mouse to Display the bar or Exit the Player.
Playback Switch	When in 2 channel playback, left click the mouse on either image to just show that image or left click the single image to go back to 2 channel viewing again.

SmartSearch (Motion History)

				Pl	ay I	Bac	ĸ		
Chan:	1	Seco	nd:	2			Rec.	Type:	A11
Time:	09-27	- 2007	00	:00:	00 =	=> (9-27	- 2007	23:59:59
Ca	rd No:							Smar	t Search

- SmartSearch acts the same as Motion History in the DVR's PC Software.
- The purpose of the SmartSearch feature is to find occurrences of motion inside video that has already been recorded. This is particularly useful if the DVR is configured for continuous recording.
- In contrast, the "Motion Detection" feature is designed to detect motion as it occurs, i.e. in real-time, and then trigger one or more of the possible actions.
- In the Playback screen, select the desired Camera, date/time and Recording Type search filter criteria in the same manner as a regular search. SmartSearch can find motion in any type of recording.
- Select the "Smart Search" button.



Select the area in which the SmartSearch function should look for motion. On the DVR faceplate or remote control, use the arrow buttons to move the cursor, EDIT to start marking the area. Using mouse control, drag a square. Only a single area can be selected. You may select the entire image as the area, or just a small portion of the image. Example: to track occurrences of unauthorized personnel entering a restricted area, draw a rectangle around that area.

- Select the desired sensitivity between 1 and 5. Press F3 on the DVR controls or "A" on a remote control, then the
 number. For mouse control, right click and select a number. A sensitivity value of "5" will find occurrences of subtle
 motion where as a sensitivity value of "1" will only find occurrences of significant motion inside the selected are. If
 in doubt, select the highest sensitivity of "5" to make sure the search does not miss anything.
- Initiate the search. On the DVR faceplate or remote control, press the PTZ button. For mouse control, right click and select "Smart Search" from the popup menu.
- The search results are displayed inside the results list area of the regular "Search & Playback" screen. The search results can then be navigated, played and selected for export in the same manner as results from a "regular" search. As with regular search, the number of results that can be displayed in the list is limited to 4000. A warning message will pop up if more search results are generated. In this case, try to narrow the date/time range if possible, or split the search into two parts, each with a smaller range. The resulting clips start a few seconds prior to the occurrence of motion and end a few seconds after the motion stops. This means that if there is continuous motion inside the selected search area, the resulting clips can be as long as the maximum clip length of 128MB.
- SmartSearch will find any type of motion, regardless of what caused the motion. Example: SmartSearch will find motion generated by People, Vehicles and Animals. SmartSearch may also find motion that is a result of weather, example: camera vibration.

Exit Playback

- In the playback screen, press the "ESC" key to return to preview mode.
- In the playback screen, press the "MENU" key to enter the main menu, press the "REC" key to enter into manual recording and press the "PTZ" key to enter into the PTZ control mode.

Event Playback

Event Playback provides quick access to event-triggered video recordings from all cameras. On this screen it is possible to view a list of event clips from all cameras. On the regular playback screen, a specific camera must be chosen.



1. Right click a mouse in the Preview Screen and select "Event Play" from the menu. Press the "PLAY" button on the DVR or remote control "twice" to open this screen.



- 2. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 3. Press "EDIT" to change a selection

- 4. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 5. Press "Enter" to use the selection.

Event Playback Selections:

- Camera. Select All cameras or individual cameras.
- Event. Select All Events, Alarm only or Mot(ion) Det(ection).
- Enter a date and time range for the events of interest.
- Search. Press Search to view the files available for the date and time range.
- Page No. Displays the number of pages with all files found.
- File Results Area. Displays the Camera number and Time. Sel is Selected files. Double click on the selected file to view it in the "Playback area".
- Event detail. At the bottom of the Playback area. Displays the file's type of event and its file size.
- Save Device. Where to Save the file to.
- Backup. Backup the file.

Network Menu

The DVR supports TCP, UDP, RTP, and multicast protocols. Remote access to the DVR is provided by 10/100 baseT Ethernet network connection, PP0E broadband or PSTN narrow band dialup. To remotely access the DVR, the network selections must be made here.

Highlight the Network icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel to not save the changes.



NIC type

The default is "10M/100M Auto", the other options are:

- 10M Half-Dup
- 10M Full-Dup
- 100M Half-Dup
- 100M Full-Dup

IP Address

This IP address must not conflict with other IP addresses on the network. If there is a DHCP server on the network, set the IP to 0.0.0.0, save and reboot the DVR. During the reboot process, the DVR will search for the DHCP server

and receive a dynamic IP address. This item will display the dynamic IP address. If the DVR uses PPPoE or dialup, this selection will display the dynamic internet IP address.

Mac Address

The MAC address is permanently assigned and the value can not be changed.

Port

Network access port number, must be greater than 2000. Default is 8000.

Mask

This is the Subnet Mask.

Gateway

The Gateway IP is used to communicate to different network segments.

DNS Address

If the DVR uses PPPoE and is assigned a dynamic IP address, set the DNS IP with a fixed Internet IP. The DVR will send information e.g. the DVR's name, DVR's serial number and the DVR's current IP to that fixed IP address. The fixed Internet IP is the DNS IP. The DNS server with this fixed Internet IP can receive DVR information and is used to resolve the DVR's dynamic IP.

This DNS is not a standard Domain Name Server. You can use the provided SDK to develop this DNS software.

MCastIP (Multicast IP)

This is one D-class IP address, between 224.0.0.0 to 239.255.255.255. If multicast is not used, this address is not necessary. Some routers will prohibit multicast to prevent network disturbances.

Multicast

- When Multicast is enabled, multiple live viewing connections to a camera from different client PCs count as a single network connection. This allows more live viewing clients (Remote Station software) to be connected to a DVR without problems.
- Multicast uses the UDP protocol and works only if the network to which the DVR and the Remote Station software
 are connected supports Multicast. Multicast traffic will not pass through routers and gateways, unless the local
 network administrator has configured these devices specifically so that multicast traffic can pass through them.
 Because of this, Multicast is not enabled in the Remote Station software by default.

Remote Host IP and Port (central PC)

If an alarm or exception occurs, the DVR will send information to this host IP. The central PC with this IP can receive alarm and exception information from the DVR. The provided SDK is used to develop the central PC software.

HttpPort

This port is for an IE browser. The default value is 80. It can be modified.

PPPoE

The DVR supports PPPoE dail-up function.

Example: Use PPPoE function

- 1. Enter into the "Network" menu.
- 2. Select NIC type.
- 3. Input port number. In the port edit box, use numeric keys to input port number. The port number must be more than 2000.
- 4. Input DNS IP. Input one fixed Internet IP address where the IP analyst software (IPServer) is running.
- 5. Input PPPoE parameters. Use "ENTER" or "EDIT" key to enable PPPoE function (set PPPoE flag as "✓"). Input PPPoE username, password and verify password that your ISP provided.
- 6. Save parameters. In Network menu, press Confirm to save parameters.
- 7. Reboot the DVR to activate the new settings. During the reboot process, the DVR will start dialup using the PPPoE function. If the DVR dialup to the internet is successful, the DVR will display the dynamic internet IP address in Network menu.

User, Pass

Enter a user name and password for Network communications. Verify the password by re-entering it.

Email

Email Setting						
Authentication: 📈						
User: site1dvr						
Password: ********						
Sender Name: site_1						
Sender Address: dvr@site1.com						
Email Server: site.one.dvr.com						
Mail receiver NO.: 1						
Name 1: site						
Address 1: site.one@dvr.com						
Attachment JPEG: 🧹 🛛 JPEG Capture Interval: 4S						
Confirm Cancel						

NOTE: The subject and body text of emails sent by the DVR is in English regardless of the selected DVR language.

To make selections in the Email Notification screen:

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel to not save the changes.
- Authentication: check to enable User and Password by changing the "×" to a check mark "✓".
- Enter User and Password
- Enter Sender Name and Address
- Enter Email Server
- Enter Mail receiver
- Enter Name 1 and Address 1
- Select Attachment and Interval (JPEG)

Email JPEG Attachments

- The email function has an option to attach JPEG images to emails that contain camera-specific event information (i.e. signal loss, motion, view tampering). There is a limit of how many JPEG images can be emailed at the same time. When multiple emails with attached JPEGs are sent simultaneously, a limit of 4 emails will contain the attachments.
- The time between JPEGs can be configured. However, the pre-alarm (pre-recording time) JPEG will not always be exactly XX seconds prior to the alarm JPEG. Depending on the current bit rate, the DVR may not have video from XX seconds ago in its buffer, and therefore the Email function can not provide a pre-alarm image from XX seconds prior to the event.
- When the DVR is playing back video locally, the pre-alarm JPEG image can not be obtained and the email will only contain 2 attached JPEG images instead of 3. The same can happen for other reasons (i.e. DVR was too busy at the time) in about 10% of the cases, i.e. 1 out of 10 Emails will have 2 instead of 3 attachments.

Press Confirm to save changes or Cancel not to save changes and return to the previous menu.

Telnet

For manufacturer's purposes only.

RSE (Remote Service Environment)

		RS	E				
RSE Enable:							
RSE Server:	Ip:	0	.0	.0	.0	Port:	0
Proxy:	Ip:	0	.0	.0	.0	Port:	0
Poll Rate:	15						
Comm. Sequen	ce: IP 0	nly	7				
	Confirm				с	ancel	

To make selections in the RSE screen:

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel to not save the changes.
- Enable RSE by changing the "×" to a check mark "√".
- Enter the RSE Server IP/Port
- Enter the proxy IP/Port
- Enter the Poll Rate
- Select the Comm(unication) Sequence:
 - IP Only.
 - PSTN Only. Enter the RSE User(name), Pass(word), Phone Number.

Press Confirm to save changes or Cancel not to save changes and return to the previous menu.

Alarm Menu

Program the DVR alarm inputs.

Highlight the Alarm icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel to not save the changes.

Alarms	
Select Alarm In: 1	Alarm Type: N.C
Alarm Response: Active Proce	dure PTZ Response
Copy to Alarm In: 1	Сору
Alarm Out: 1	Time: 5S
Alarm Out Time: Schedule	
Copy to Alarm Out: 1	Сору
Confirm	Cancel

Select Alarm In Select an alarm input.

Alarm Type Normally Open (N.O.) or Normally Closed (N.C.).

Alarm Response

There are two selections for Alarm Response: Ignore or Active. If the Active option is selected, the Procedure and PTZ Response buttons are enabled on the right side.

Alarm Procedure

Highlight the Procedure button and press "ENTER" at the DVR controls, remote control or left click with a mouse.



Record Camera

Select the channels to record for each alarm input.

NOTE: Recording must be enabled in the Recording Menu and the Recording Type must be set to: MotionIAlarm or Motion & Alarm in the Recording Menu, "Recording Channel Configuration", "Enable Record", "Schedule" for the cameras to start recording when an alarm occurs.

Alarm in Schedule

Setup a schedule to determine when the Motion Alarm will be activated.

Ensure that adequate time periods are set to avoid missing possible occurrences.

When a Motion Alarm occurs within the defined schedule, the DVR will respond with one or more of the selectable Control Methods. A maximum of 4 periods can be setup for each day of the week. The schedule of one day can be copied to another.

NOTE: Time periods in one day cannot be repeated.

- 1. When a Motion Alarm has occurred during the defined schedule, the DVR will respond based on the procedure selections. One or more selections include:
- On Screen Warning
- Audible Warning
- Upload to Main PC (send exception information to the central host PC)
- Turn on Alarm Output.
- Send Email
- Notify RSE
- 2. Use "▲", "▼" and "EDIT" on the DVR controls, remote control or left click a mouse to enable or disable each option. "**x**" is disable and "✓" is enable.

NOTE: If On Screen Warning is enabled, when a motion alarm occurs and the DVR is in preview mode, the DVR will show the related camera. If more than one camera is activated, the DVR will display them one after the other every 10 seconds. When the motion alarm is cleared, the DVR will return to the normal Preview Mode screen.

3. Press the Confirm button to save the selections and return to the Image menu. Pressing cancel will not save the changes and will return to the Image menu.

PTZ Response

Highlight the PTZ Response button. Press "ENTER" at the DVR controls, remote control or left click a mouse to open the PTZ related response menu:

PTZ Response						
Select Camera:						
Enable Preset:	X					
Preset:	1					
Enable Sequence:						
Sequence No:	1					
Enable Cruise:	×					
Confirm	Cancel					

Select Camera

Select a PTZ camera connected to the DVR.

Enable Preset

Change the selection to " \checkmark " to enable preset.

Preset

In the Preset number selection box, choose one Preset number that has been configured. Refer to the PTZ Menu for more information.

Enable Sequence

Change the selection to " \checkmark " to enable Sequence.

Sequence No:

In the Sequence number selection box, choose one Sequence number that has been configured. Refer to the PTZ Menu for more information.

Enable Cruise

Change the selection to " \checkmark " to enable Sequence. Refer to the PTZ Menu for more information. Press the Confirm button to save and return to the Alarms Menu. Press the Cancel button or "ESC" to prevent the changes from being saved and return the Alarms Menu.

NOTE: Confirm that the PTZ camera being used supports Preset, Sequence and Cruise functions. One external alarm input can turn on multiple PTZ cameras by the PTZ Response selections.

Copy to Alarm In

• Select another alarm input to copy the current alarm input selections to and press Copy.

Alarm Out

Select one of the DVR alarm Outputs.

Time: (output delay after alarm)

The amount of time the alarm output will continue after the alarm has cleared. The time options are:

- 5 Seconds (default selection)
- 10 Seconds
- 30 Seconds
- 1 Minute

- 2 Minutes
- 5 Minutes
- 10 Minutes
- Manual Stop

Notes: If the Manual Stop option is selected, the alarm output will not stop until the Stop AlmOut (Stop alarm output) button is pressed in the Utilities menu. The alarm output time includes the alarm input time and the "Output Delay after Alarm" time.

Output Alarm Time Schedule

A schedule is defined to control when an alarm output will turn on. Select the Schedule button on the right side of the Alarm Out Time, press "ENTER" on the DVR controls or remote control or left click a mouse to display the Schedule menu for the associated output:

		A	la	rmOut	t				
Day:	Mont								
		Star	t	ſime		End	Ti	me	
	Period 1:	00	:	00		00	:	00	
0	Period 2:	00	:	00		00	:	00	
	Period 3:	00	:	00		00	:	00	
	Period 4:	00	:	00		00	:	00	
	Copy to:	Mon			Cop	У			
M	Confir	'n				Canc	el		

Define the Alarm Output Schedule

This schedule is set the same as the previous Schedule for recording in the Recording Menu. 4 time periods can be defined for one day and 7 days for one week.

Ensure that adequate time periods are set to avoid missing possible occurrences.

Copy to:

• Select another day of the week to copy the current day of the week selections to and press Copy.

Press Confirm to save changes or Cancel not to save changes and return to the previous menu.

Exception Menu

Exceptions are conditions the DVR can respond to in different ways

Highlight the Exception icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel to not save the changes.



Exception:

Select from the following exceptions.

- Hard Disk Full
- Hard Disk Error
- Network Failure
- Illegal Access
- NTSC/PAL Mismatch
- Hardware Changed
- IP Address Conflict

Control Method:

Use "ENTER" or "EDIT" at the DVR controls or remote control or left mouse click to enable the following selections by changing the " \mathbf{x} " to a check mark: " \checkmark ".

Audible Warning: Turn DVR alert tone on or off.

Upload To Main PC: Send exception information to central host PC.

Trigger Alarm Output: Turn on a DVR output. Select any or all of the displayed output numbers.

Send Email: Email notification.

Notify RSE: Contact Remote Service Environment

Press Confirm to save changes or Cancel not to save changes and return to the Main Menu.

PTZ Menu

A single RS-485 port on the rear panel of the DVR is used for PTZ control. RS-485 selections can be made to match the PTZ protocol.

Highlight the PTZ icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel to not save the changes.

	PTZ
Select Camera: [
Baud Rate:2400	Data Bits:8bit
Stop Bits:1bit	Parity:No Parity
Flow Ctrl:None	Protocol:Pelco-D
PTZ Addr.:1	Preset: Setup
Sequence No: Setup	Cruise: Setup
Copy to Camera:1	Сору
Confirm	Cancel

Select Camera

Select the camera number that a PTZ camera is connected to and configure it as follows:

RS-485 Selections: (must be the same as the PTZ Protocol)

Baud Rate: 2400 (default selection), 4800, 9600, 19200, 38400, 57600, 76800, 115.2k, 50, 75, 110, 150, 300, 600, 1200.

Data Bits: 8 bit (default selection), 5, 6, 7.

Stop Bits: 1 bit (default selection), 2.

Parity: No Parity (default selection), Odd, Even.

Flow Ctrl (Control): None (default selection), Software, Hardware.

Protocol: (PTZ camera brands) Select from one of the supported PTZ protocols:

Pelco-D (default)	TLHHX-2000	Tc Pelco P	ADR8060	TECHYIN	LCU
VCOM VC-2000	BBV	Tc Pelco D	EVI-D30	WEIHAN	DennarDome
NetStreamer	RM110	AUTO-M	DEMO-SPEED	LG	Phillips
SAE/YAAN	KC3360S	AUTO-H	DM-PELCO-D	D-MAX	Sample
Samsung	ACES	ANTEN	ST832	Panasonic	PLD
Kalatel-312	ALSON	CHANGLIN	LC-D2104	KTD-348	Parco
CELOTEX	INV3609HD	DeltaDome	HUNTER	infinova	HY
TLPelco-p	Howell	XYM-12	A01	PIH-7625	NAIJIE

CAT_KING	DH_CC440	YouLi
YH_06	TX_CONTROL_232	LiLin
SP9096X	VCL_SPEED_DOME	LinLin-820
M_PANEL	ST_2C160	Pelco-p
M_MV2050	TIANDI	DM DynaColor
SAE_QUICK	TWHC	HD600
RED_APPLE	USNT	JC-4116
NK08G	KALLATENVD2200PS	Pelco-d WX

NOTE: In the DVR PTZ menu, if the Pelco-P protocol is selected, when the PTZ address is configured, offset the PTZ address by +/– 1 from the Camera ID. Example: the Camera ID is 2, set the DVR PTZ address to 3 or 1.

PTZ Addr:(ess)

Enter the PTZ camera address.

PTZ Preset

NOTE: Ensure the PTZ camera supports preset functions before beginning.

Program the PTZ camera's position, zoom, focus and iris.

- 1. Highlight the Setup button on the right side of the "Preset:" selection.
- 2. Press "ENTER" on the DVR controls, remote control or left click a mouse to display the preset configuration menu. 128 presets can be created.



- 3. Input the preset number (1-128) in the Preset box.
- 4. Press the Adjust button to open the PTZ control screen.



- 5. In the PTZ control screen, use the direction keys on the DVR control or remote control to adjust the PTZ position. Use the "IRIS+", "IRIS–", "FOCUS+", "FOCUS–", "ZOOM+", "ZOOM–" buttons to adjust the iris, focus and zoom.
- 6. When completed, press "ENTER" to return to the "Set Preset" screen.
- 7. For mouse control, there is a control panel in the upper right corner of the PTZ control screen. The top 2 symbols represent the IRIS+ on the left, IRIS- on the right adjustment controls. The next 2 symbols down are for the FOCUS+ on the left, FOCUS- on the right adjustment controls. The next 2 down are the ZOOM+ on the left, ZOOM- on the right adjustment controls. Rest the mouse pointer on any of these symbols and press and hold the left mouse button to make adjustments: increase: +, decrease: -. Below these symbols is the direction control. Rest the mouse pointer and left click and hold on any of these directions to maneuver the PTZ camera.
- 8. When completed, right click the mouse to return to the Set Preset screen.
- 9. Press the Save button to save the preset number and its adjustments.
- 10. Repeat this procedure to configure other preset numbers.
- 11. After all preset numbers are configured and Saved, press the Return button to return to the PTZ menu.

Delete a PTZ Preset

- In the Preset menu, enter a preset number in the "Preset:" box and press the "Delete" button.
- After deleting, press Return.

PTZ Sequence

NOTE: Ensure the PTZ camera supports the sequence function before beginning.

"Sequence" is composed of several cruise points. Each cruise point includes one preset number, dwell time and dwell speed. 16 sequences can be created.

- 1. Highlight the Setup button on the right side of the "Sequence No:" selection.
- Press "ENTER" on the DVR controls, remote control or left click a mouse to display the Sequence configuration menu.



- 3. Input the sequence number (1-16) in the Sequence No. box.
- 4. Use the arrow direction keys on the DVR controls or remote control or mouse pointer to navigate around the screen to the various selections.
- 5. When at a desired selection, press "EDIT" or left click on the selection for a mouse menu to enter the following:

Cruise Point: Each Sequence is comprised of a Cruise Point number. Enter a Cruise Point number.

Preset: Enter a Preset number from the previous Preset section.

Dwell Time: Dwell time is the time remaining at that preset number. Enter the Dwell Time.

Dwell Speed: Dwell speed is the speed that the PTZ is moved to that preset number. Enter a Dwell Speed.

- 6. When these selections have been made, press the "Add" button to the right of them to add one cruise point.
- 7. Press the Confirm button to save the cruise point into the sequence.
- 8. After programming the sequence, press the StartSeq button to start and check the current sequence.
- 9. Press the StopSeq button to stop checking the sequence.

Del(ete) Cruise Point

- In the Sequence menu, enter a Cruise Point number in the "Cruise Point:" box and press the "Delete" button.
- After deleting, press Return.

PTZ Cruise

NOTE: Ensure the PTZ camera supports the cruise function before beginning.

"Cruise" refers to remembering the track of the PTZ movement.

- 1. Highlight the Setup button on the right side of the "Cruise" selection.
- 2. Press "ENTER" on the DVR controls, remote control or left click a mouse to display the Cruise configuration menu.

In the PTZ menu, press the Setup button on the right side of the Cruise item.



- 3. Press the RecCruise button.
- 4. This will access the PTZ control interface. Start controlling the PTZ with the direction keys. Press "ENTER" to save the operation track and return to the Cruise setup menu.
- 5. Press the StartCruise button to repeat the PTZ track until pressing the StopSeq button to stop it.
- 6. Press the Return button to return to the PTZ menu.

Press Confirm to save changes or Cancel not to save changes and return to the Main Menu.

Copy to:

- In the PTZ programming screen, the configurations for one PTZ camera can be copied to another.
- In the "Select Camera:" box at the top of the screen, enter a PTZ camera number whose configurations are needed for another PTZ camera connected to the DVR.
- In the "Copy to Camera" box at the bottom of the screen, enter the camera number to copy the selections to and press Copy.

For PTZ DVR front panel controls, refer to the Front Panel Indicators and Controls section.

For PTZ mouse control, right click the mouse in the camera preview screen and select "PTZ Control" from the on screen menu. This PTZ control screen is the same as the one displayed when the "Adjust" selection is used in the Set Preset screen of the PTZ menu.

RS232 Menu

A single RS-232 serial port is on the rear panel of the DVR for PC communications.

Highlight the PTZ icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel not to save the changes.



Baud Rate: 9600 (default selection), 19200, 38400, 57600, 76800, 115.2k, 50, 75, 110, 150, 300, 600, 1200, 2400, 4800.

Data Bits: 8 bit (default selection), 5, 6, 7.

Stop Bits: 1 bit (default selection), 2.

Parity: No Parity (default selection), Odd, Even.

Flow Ctrl: (Control) None (default selection), Software, Hardware.

Mode: (uses for RS232 connection)

- Console: (default selection) Connect to a PC serial port. HyperTerminal or NetTerm can be used to control the DVR.
- Transparent Channel: Connect to a serial device. The remote PC can control a serial device through the network.
- PPP: Connect to a Modem. This setup uses PSTN to transfer the video image.

PPP (When the above Mode selection is "PPP")

- Active: (default selection) The DVR will dial-up through PSTN.
- Passive: The DVR will wait for dialup.

Callback (When the Mode selection is "PPP")

- By Dialer (default selection)
- Preset Tel: This function is not available.

Remote IP

• This field is available when the Mode is PPP.

• This is the IP of the remote PC that will connect to the DVR through PSTN.

Local IP

- This field is available when the Mode is set to PPP.
- This is the IP of the DVR.

Mask

- This field is available when the Mode is set to PPP.
- The Remote IP and the Local IP are in the same sub net.

Username, Password and Verify password

- These fields are available when the Mode is set to PPP.
- They are used for login when the remote PC dials-up through PSTN.

Phone

- This field is available when the Mode is set to PPP and PPP is set to Active.
- It is the phone number of the Remote PC.

modemInit

Not used

Press Confirm to save changes or Cancel not to save changes and return to the Main Menu.

Preview Menu

Customize the regular DVR screen view referred to as Preview Mode

Highlight the Preview icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel to not save the changes.



Select Out: Select the Main Channel (default selection) or Auxiliary Channel. Enable both if an AUX monitor will be used.

Preview Mode

- For 1 channel, select the 1 screen option.
- For 4 channels, select the 1 or 4 screen option.
- For more than 4 but less than 9 channels, select the 1, 4 or 9 screen options.
- For 16 channels, select the 1, 4, 9, 12, or 16 screen options.

Switch Time: The image preview switch time.

Selections: Never (default selection), 5, 10, 20, 30, 60, 120, 300 seconds.

If "Never" is selected, the preview image will not be switched automatically. Example: for a 16 channel DVR, if a 4 Screen preview mode and 20 second Switch Time is selected, the DVR will cycle through the display 4 channels at a time every 20 seconds.

Audio Preview

If the audio preview is enabled with a check mark "~", the DVR will play the audio of the channel viewed.

Alarm Aux(iliary) Out: Select: Main Chan(nel) (default selection), Aux(iliary) Chan(nel).

Display Delay: Delay before switching between on screen display camera views. Select: 10 (default selection), 1, 2, 3, 4, 5, 6, 7, 8, 9 seconds.

Layout: Customize the DVR preview screen to display an assigned order of the channel camera images.

- In the Preview screen there is a square frame that can be divided into several image squares.
- If a 4 screen Preview Mode is selected, this frame will automatically divide itself into 4 squares. Each square represents one camera image and each square is numbered in a sequential order.
- Use the navigation arrow buttons "◄", "▶", "▲" and "▼" on the DVR controls, remote control or use the mouse pointer to highlight any of the squares to change their number sequence.
- Press "EDIT" to convert the up, down arrow buttons to increase or decrease the number order in each square or enter a number using the keypad. When the number selection in the square is complete, press "ENTER" to save the change. Repeat this procedure for each square. Left click a mouse on each square to change the square's number order.
- If the number sequence is cycled through to an "**x**", that square will not display an image.
- There is a number bar under the main square frame to display the preview order of all the DVR camera channels.
- Press Confirm to save changes.
- After the camera preview order has been defined, exit from the menus to view the Preview Mode screen and check the layout.

NOTE: If an inactive camera is left with a number in a square and not an "x", "NO VIDEO" will appear on screen if a camera is not connected to that input.

Transact(ion) Menu

Each DVR can support 1 ATM machine. The DVR can actively obtain or passively receive a credit card number from an ATM machine connected through a network or the serial port. The credit card number can be overlaid onto the live video, recorded and played back. The following description indicates how to proceed with relevant configurations according to different links to the ATM machine.

Highlight the Transaction icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.

To make selections in this screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or mouse pointer to high light the screen selections.
- 2. Press "EDIT" to change a selection
- 3. Use "▲", "▼" to change the selection. Left click the mouse to change the selection.
- 4. Press "ENTER" to save a selection and return to the Image Menu.
- 5. After making changes, press Confirm to save the changes or Cancel not to save the changes.

• In the "Transaction Information" screen, there are 4 types of text capture options:

Trans	saction	Inf	ormation
Obtain By: Netwo	rk Searc	h 🜩	
ATM IP: 0 .0 .0	.0		
Frame ID:			
Offset: 0	Length:	0	Value:
Card No.Length Info			
Offset: 0	Length:	0	
Card Number Info:			
Offset: 0	Length:	0	
Operation Type:			
Offset: 0	Length:	0	
Type: Query			Code:
Confirm			Cancel

Obtain By: Network Search (default selection)

Obtain the transaction information such as credit card number actively through the network.

NOTE: Refer to the 21-0420 DVR Installation Guide for the Network Connection diagram.

The following is the corresponding selection menu:

Configure the following information:

ATM IP: The IP address of the ATM machine on the network.

Frame ID: Start & end position, length and the content of data message.

Enter the "Offset", "Length" and "Value".

Card No. Length Info: Start, end position and length of a credit card number.

Enter the "Offset" and "Length".

Card Number Info: Start, end position and length of a transaction type.

Enter the "Offset" and "Length".

Operation Type: Transaction type and code.

Enter the "Offset" and "Length"

When the ATM machine is sending the transaction information to the bank center, the DVR will capture the data package through the network, and analyze the data according to the format. The DVR will overlay the corresponding text on live video.

Type: Select the type of banking transaction:

Selections: Query (default selection), Withdraw, Deposit, Modify Password, Transfer.

Code: ATM specific manufacturer and/or individual ATM operation code.

Press Confirm to save changes or Cancel not to save the changes and return to the Main Menu.

Obtain By: Network Receive



• The DVR receives data sent by the ATM machine through a network.

• This is possible when the DVR listen port is enabled.

Configure the following information:

Local Port: 10000 (default selection). Enter the applicable port value.

The software that is used in the ATM machine based on this DVR's protocol must be used. The software will send the transaction information directly to the DVR. The DVR will receive, analyze and overlay the text on live video.

Press Confirm to save changes or Cancel not to save the changes and return to the Main Menu.

Obtain By: String from Serial Port



ATM Type: Select the ATM machine brand from the following available:

NCR (default)	OLIVETTI	IBM	GDYT	CHENTONG	TAILITE	NXS
Diebold	FUJITSU	BULL	Mini-Banl	NANTIAN	DRS918	
WINCOR-NIXDORF	HITACHI	YIHUA	GUANGLI	XIAOXING	KALATEL	
SIEMENS	SMI	LIDE	EASTCOM	YUYIN	NCR_2	

Press Confirm to save changes or Cancel not to save the changes and return to the Main Menu.

NOTE: "Transparent Channel" must be selected in the RS-232 menu for this operation.

			RS232
Baud	Rate:	9600	Data Bits: 8bit
Stop	Bits:	1bit	Parity: No Parity
Flow	Ctrl:	None	Mode: Transparent Channel�
PPP	Mode:	Active	Callback: By Dialer 👌

Software must be used in the ATM machine to send the credit card number and transaction code to the DVR through the RS-232 port. Acquire the ATM communication specifications for transmitting data.

Obtain By: ATM CMD from Serial Port



NOTE: "Transparent Channel" must be selected in the RS-232 menu for this operation.

			RS232
Baud	Rate:	9600	Data Bits: 8bit
Stop	Bits:	1bit	Parity: No Parity
Flow	Ctrl:	None	Mode: Transparent Channel�
PPP	Mode:	Active	Callback: By Dialer

Software must be used in the ATM machine and a command must be sent to the DVR through the RS-232 port based on the manufacturer's communication protocol.

Press Confirm to save changes or Cancel not to save the changes and return to the Main Menu.

Utilities Menu

There are several selections in the "Utilities" secondary menu to assist with operation of the DVR.

High light the Utilities icon in the Main Menu and press "ENTER" at the DVR controls, remote control or left click with a mouse to open the configuration screen.



To make selections in the Utility screen,

- 1. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or use a mouse pointer to high light icons in the Utilities menu screen. Press "ENTER" to open a Utility icon's contents.
- 2. Press "EDIT" to change a selection
- 3. Use the "◄", "▶", "▲" and "▼" arrow buttons on the DVR controls or remote control or use a mouse pointer to navigate the executable selections.
- 4. Follow the on screen instructions in the screens
- 5. Press "ENTER" or left click a mouse to execute a selection

Tools

Selections: Import/export of configurations with USB. View the Hard Disk Drive Change Information.

Tools
Para in/out HDDCInfo [Enter]:Confirm, [ESC]:Cancel
para in/out
mode In out
[Enter]:Confirm, [ESC]:Cancel
ConfigFromUSB ReFresh
No. Config FileName
Confirm

Para(meters) In/Out (Import/Export)

- This operates only with USB flash drives and not other forms of USB storage
- Files for import must have a ".conf " extension
- The config file import screen will display only the first 10 .conf files found on the USB flash drive. Exporting a file is however still possible even if 10 or more .conf files are already on the flash drive.
- For import, .conf files with names longer than 40 characters are not supported and are not displayed in the list

- Only files that were exported from the same type of DVR should be imported (e.g. files exported on a 4 channel 2000/F DVR should only be imported on the same or another 4 channel 2000/F DVR, etc.)
- The names of exported configuration files contain the DVR serial number and the timestamp. This means that a
 second export operation will not overwrite a configuration file previously exported from the same DVR since the
 timestamp will be different.
- Configuration files exported via the OSD (on screen display) can later be imported into a DVR using the Remote Station software. Similarly, configuration backup files created by the Remote Station software can be copied to a USB flash drive and imported into a DVR via the OSD menu.
- The content of the files is encrypted. It is not possible to open the file and determine what the values are for specific configuration parameters.

WARNING: Importing a configuration file will change all configuration parameters except certain network configuration parameters. This means that if the passwords inside the configuration file are not known, it will not be possible to access the DVR after the DVR is rebooted.

HDDCInfo

When the HDD Change Info(rmation) button is pressed, viewing the Hard Disk Drive Change Information will appear as follows:

ormation	
C Model	C Ser.Num.
ST3250 6QF	0 JATH
n	
	ormation C Model SI3250 6QF

- This information is not available in the Remote Station software.
- The purpose of this function is to act as an alert of unexpected changes to the DVR's HDD configuration. This function will detect the following:
 - 1. Removal of a disk
 - 2. Addition of a disk
 - 3. Replacement of a disk
 - 4. Moving of a disk from one SATA port to another SATA port this will show in the OSD (on screen display) screen as two changes, i.e. one removal and one addition of a disk
- Hard Disk Drive changes are detected on DVR bootup, and the configured notification actions (e.g. send e-mail, notify RSE, etc.) are taken.
- This function does not detect changes to the CD/DVD writer configuration, i.e. addition or removal of the CD/DVD writer is not detected.
- No history is maintained if the DVR is rebooted again, then the current HDD configuration becomes the normal condition.
 - 1. With a DVR that contains a single HDD on port SATA3.
 - 2. Power down the DVR.
 - 3. Add a Hard Disk to port SATA4.
 - 4. Power up the DVR.
 - 5. A HDD change is detected and the configured notification actions are taken; OSD screen shows that a disk was added to SATA4.
 - 6. Power down the DVR.
 - 7. Power up the DVR.
 - 8. No HDD change detected, because the HDD which was added in step 3 is now expected to be part of the DVR's HDD configuration.
 - 9. Power down the DVR.
 - 10. Remove the disk from SATA4.
 - 11. Power up the DVR.
 - 12. A HDD change is detected and the configured notification actions are taken; OSD screen shows that a disk was removed from SATA4.

Restore Para(meters)

Restore factory settings to the DVR. The IP address, gateway and port number will not be restored.



Upgrade

Use this function to upgrade the firmware. The Firmware language must match the DVR language settings. Press the Upgrade icon in the pop-up dialog. Select either "FTP" or "USB" Update Mode.



FTP Mode

FTP Server's IP Address

Input the FTP server's IP address and press "ENTER" or right click the mouse menu. The DVR will connect to the FTP server through the network and download the firmware file.



USB Mode

Connect a USB flash drive to the single DVR USB mouse connector on the DVR back panel. The firmware file must be in the root directory. The DVR will find the new firmware file and install it.

Hard Disk Management



Select HD:

Select a hard drive connected to the DVR to check its status.

Check HDD work status

Capacity, Free space, Idle (stand by) or not, Normal status or not.

Format HDD

Before formatting, stop all recording.

- Time required to format a 250GB Seagate SV35 drive is 7 minutes.
- Time required to format a 750GB Seagate SV35 drive is 37 minutes.

The default DVR hard drive connections are:

Hard Drive Connection	Device
1	Back-up to an external device. E-Sata connector on the back of the DVR.
2	Panasonic SATA DVD Writer.
	Compatible 8 cm DVD discs: Ritek DVD-R, Mitsubishi CD-R, Sony DVD-R, Banana DVD-R, (Plasmon CD-R – ok when the file is 40M maximum). (Haomuren CD-R – ok when the disk is written to once and the size is 40M maximum).
	Compatible 12 cm DVD discs: Hickwall DVD-R, Sony DVD-R, Mitsubishi DVD-R, Plasmon CD-R, Hickwall DVD+R.
	 DVD-RW media is not supported DVD+RW media is not supported Once started, writing to DVD/CD can not be cancelled.
All others	Hard Disk Drives

Stop AlmOut

Clear an alarm condition manually.

- NOTE: Manually silencing an audible warning using the OSD (on screen display) Menu/Utilities/Stop AlmOut completely disables audible warnings until the user re-enables audible warnings.
- To re-enable audible warnings, select "Stop AlmOut" a second time. If at this point any alarm conditions are still active with audible warning as one of their notification options, then those conditions must first clear before audible warnings can be re-enabled.

Reboot

Restart the DVR.

Power Off

Shut down the DVR. NOTE: Press the ENTER button to re-start the DVR.

View Log

View the event log recorded on the DVR HDD.

				Vi	iew Lo	g		
	Query:	ByTy	pe&Tim	e				
Majo	rType:	All			Minor	Type	Al	1
Start	Time:	2007	- 12 -	03	00:	00:	00	
End	Time:	2007	- 12 -	03	23:	59:	59	SearchLog
No.		Time		M	ajorTy	pe		MinorType
1	2007-1	0-04	08:26:	29	Opera	tion	Lo	calFormatHD
2	2007-1	0-04	08:19:	40	Opera	tion	St	artDVR
3	2007-1	0-04	08:30:	30	Alarm		Mo	tDectStop
4	2007-1	0-04	08:30:	31	Alarm		Mo	tDectStart
5	2007-1	0-04	08:30:	43	Alarm		Mo	tDectStop
6	2007-1	0-04	08:31:	02	Alarm	n =	Mo	tDectStart
7	2007-1	0-04	08:31:	09	Alarm		Mo	tDectStop
8	2007-1	0-04	08:32:	05	Alarm		Mo	tDectStart
More	Info		Pa	ige	No. 00	01 /2	50	Return

To view the log based on the default options, press "ENTER". The DVR will list all of the matched information. Optionally, select options to search (By Type, By Date, By Type&Time).

Ву Туре

Type is divided into Major Type and Minor Type. Major Type includes Operation, Alarm, Exception and All. The Minor Types become active for certain Major Types.

Major Types	Minor Types
Operation	Power On, Shut Down, Abnormal Shut, Local Login, Local Logout, Local Config, Local File Play,
	Local Time Play, Local Start Record, Local Stop Record, Local PTZ, Local Set Time, Local Upgrade,
	Net Login, Net Logout, Net Start Record, Net Stop Record, Net Start Transparent Channel, Net Stop
	Transparent Channel, Net Get Parameter, Net Config, Net get Status, Net Alert On, Net Alert Off,
	Net Reboot, BiComStart (Start Voice Talk), BiComStop (Stop Voice Talk), Net Upgrade, Net File Play,
	Net Time Play, Net PTZ
Alarm	External Alarm In, External Alarm Out, Motion Detect Start, Motion Detect Stop, View Tamper Start,
	View Tamper Stop
Exception	Video Signal Loss, Illegal Access, Hard Disk Error, Hard Disk Full, Hardware Changed.
All	Inactive

Press the MoreInfo(rmation) button for more search information.

		Vi	ew Log	g					
Query: B	уТуре	e&Time							
MajorType:A	.11		Minor	Гуре	: All				
Start Time: 2	.007 -	- 12 - 03	00:	00:	00				
End Time: 2	.007 -	- 12 - 03	23:	59:	59		Sear	chLo	g
No. LocalUse	er	Net	tUser		0.5		Hos	tAdd	r
1						0	.0	.0	.0
2						0	.0	.0	.0
3						0	.0	.0	.0
4						0	.0	.0	.0
5						0	.0	.0	.0
6						0	.0	.0	.0
7						0	.0	.0	.0
8						0	.0	.0	.0
MoreInfo		Page	No. 00	1 /1	94		Ret	turn	

Press the MoreInfo(rmation) button again for more search information.

			Vi	ew Log	3		
Ş	Query:	ByTy	pe&Time				
Majoi	rType:	All		Minor	fype	: All	
Start	Time:	2007	- 12 - 03	00:	00:	00	
End	Time:	2007	- 12 - 03	23:	59:	59	SearchLog
No.	ParaTy	уре	chan.No	Hd.No	A	larmIn	n AlarmOut
1			0	0		0	0
2			0	0		1	0
3			0	0		2	0
4			0	0		3	0
5			0	0		4	0
6			0	0		5	0
7			0	0		6	0
8			0	0		7	0
More	Info		Page	No. 00	1 /1	94	Return

System Information

Press the System Info icon to view the DVR system information:

System Info

Unit Name: UTCFS DVR Device Model: DS8016HFI-S Serial Number: 0220061117ACWR000952322WCVU Firmware Version: V2.1-1, build 070928 Encode Version: V4.0, build 070928

Confirm

DVR Rear Panel Connections

VeDVR2004, 4 Channel DVR with Video/Audio Aux, VeDVR1004, 4 Channel DVR without Video/Audio Aux



VeDVR1008/VeDVR2008, 8 Channel DVR, VeDVR1016/VeDVR2016, 16 Channel DVR



Detail	Connection/M	lodel	Description					
1	Video Input		Standard BNC					
1	Audio Input		Standard BNC					
2	Main Video Ou	utput	Connect CCTV monitor, output video and OSD menus.					
2	Main Audio Ou	utput	Local audio output.					
3	Auxiliary Video	o Output	Spot monitor for video preview and playback. (NOTE: Not available on VeDVR1004)					
5	Auxiliary Audio	o Output	Spot monitor for audio preview and playback. (NOTE: Not available on VeDVR1004)					
4	Line In		Audio line input for voice talk.					
5	USB Interface		USB Mass Storage Device, USB HDD, USB CD-R/W, USB DVD, USB Mouse.					
6	VGA Input		VGA display.					
		Optional Keyboard	Connect a DS-1000KI keyboard with PTZ joystick to e.g. left RJ45 connector. Interconnect with another DVR using the RJ45 connector on the right.					
	veDVR1004	RS-232	Connect RS-232 devices.					
-	VeDVR2004	UTP Network	Connect network devices. 10/100baseT Ethernet.					
1		Interface						
	VeDVR1008/ VeDVR2008	RS-232	Connect RS-232 devices.					
	VeDVR1016/	Ethernet	Connect network devices. 10/100baseT Ethernet.					
8	E-SATA	1	Connect an external hard drive.					
	SW1		Switch 1, RS-485 terminal resistor switch. Termination resistor for PTZ control					
9			line. Default is OFF. The resistor is 120 Ohm.					

DVR Rear Panel Connections cont.

Detail	Connection/Model		Description
		RS-485	PTZ connection. Using T+/T– to connect PTZ.
	VeDVR1004	Alarm	2 relay outputs. Use "G" connection to the right of each output as the output's
	and	Outputs	common connection.
	VeDVR2004	Alarm	4 alarm sensor inputs. Use "G" connection on alarm block as common.
		Inputs	
10	10	RS-485	PTZ connection. Using T+/T– to connect PTZ
10	VeDVR1008/	Optional	Using K+/B– for DS-1000KI keyboard with PTZ joystick and interconnect to
	VeDVR2008	Keyboard	another DVR.
	and	Alarm	4 relay outputs
	VeDVR1016/	Outputs	
	VeDVR2016	Alarm	16 alarm sensor inputs. Use the "G" connections on the alarm block as
		Inputs	common.
11	GND		Ground
12	Electrical		100 – 240 VAC Electrical input. Electrical power ON/OFF switch.

Index

A Key, Remote Control	3
Alarm Response	35
Alarm Status Bar	5
Alarm Type	35
ATM IP	48
ATM Transaction Network Sniff	48
Authorization for Cameras	11
Auxiliary Channel	47
Bit Rate Maximum	22
Bit Rate Type	22
Brightness	13
Brightness, Contrast, Hue and Saturation	15
Button Text	7
Camera Name	14
Camera Name Position	14
Check Box	7
CRT Monitor	 13
	1/
Dale Davlight Savings Time	13
	10
Device ID	12
	32
	14
DVD Writer disks to use/NOTES	54
	/
Email	33
Enable Record	25
Frame Rate	23
FTP Mode	53
Gateway	32
Hard Disk Drive Defaults	54
Hard Disk Drive Formatting	54
Hard Disk Drive Work Status	54
Hard Disk Selection	54
HttpPort	32
If Hard Drive is Full	21
Image Quality	23
IP Address	31
Keyboard On Screen	. 4
List Box	7
l og. View By Type	55
Logging In	7
Main Channel	47
Manual Recording Requirements	25
Menu Transparency	13
Motion Alarm Procedures	20
Motion Alarm Record Channel Setun	20
Motion Alarm Schodulo 20	20
Motion Area Canaol	10
Motion Area Satun	19
Motion Detection Level	10
	18
	32
	31
	13
USD (Un Screen Display)	15
Output Alarm Time Schedule	38
Output Delay after Alarm	37
PAL	13
Password Defaults	7
PC MAC Address	11
Port Number	32
Post Record Time	2 E
DDDoF	20
PPP0E	25 32
PPPOE PreRecord Time	25 32 25

Preview Mode Image Switch Time	.47
Preview Mode Layout	.47
Privacy Mask	.15
PTZ Address	.41
PTZ Alarm Enable Cruise	.37
PTZ Alarm Enable Sequence	.37
PTZ Alarm Monitoring	.37
PTZ Delete Cruise Point	.43
PTZ Enable Alarm Preset	.37
PTZ Preset	.41
PTZ Preset Delete	.42
PTZ Protocol (PTZ camera brands)	.41
PTZ RS-485 Parameters	.40
PTZ Sequence Setup	.43
Record Camera	.36
Record Status Bar	5
Recording All Day	.23
Remote Control ON/OFF	3
Remote Host IP and Port (central PC	.32
Resolution	.22
RS-232 Callback Mode	.45
RS-232 Local IP	.46
RS-232 Mode	.45
RS-232 Parameters	.45
RS-232 Phone Number	.46
RS-232 PPP Mode	.45
RS-232 Remote Mode	.45
RS-232 Sub Net Mask	.46
RS-232 username/password	.46
RSE	.34
Scaler	.13
Scheduled Recording	.24
Screen Saver	.12
Signal Loss	.17
Stream Type	.22
Subnet Mask	.32
Telnet	.33
Time	.14
Unit Name	.12
Upgrade FTP Server	.53
Upgrade USB Mode	.53
VGA Resolution	.13
Video Standard	.13
View Tampering	.16