

Safety Information

The safety information is provided for the wellness of the equipment and for the safety of the operator.

Please review and observe all instructions and warnings in this manual.

Note : Keep this manual handy every time you operate this equipment. Also, check with your dealer for further assistance and for the latest revision of this manual. Your dealer might provide you with a digital version of this manual. We also ask to keep the original box and packing materials in case of return and for long-term storage of the DVR unit.

Preparations before installation

To protect your DVR from damage and to optimize performance, be sure to keep the DVR away from dust, humidity, and area with high voltage equipment such as refrigerator.

Do not install or place equipment in areas where the air vents can be obstructed, such as in tight enclosures or small utility closet. Keeping the unit in a temperature-controlled room with ample regulated power is highly recommended. Do not overload the wall outlet, as this can result in the risk of fire or electric shock.

Uninterruptible power devices such as UPS power surge protectors are recommended, and the DVR units must at least be connected with UL, CUL, or CSA approved power surge protector. Avoid direct sun light and avoid heat.

FCC Information



This equipment has been tested and found to comply with the limits of 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 radiates 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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment under FCC rules.

UL Information

- for pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible

- if the battery is placed elsewhere in the equipment, there shall be a marking close to the battery or statement in the servicing instructions.

CAUTIONRISK OF EXPLOSION IF AN INCORRECT TYPE REPLACES BATTERY.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTION.
THIS EQUIPMENT IS FOR INDOOR USE, AND ALL THE COMMUNICATION WIRING IS LIMITED TO
INSIDE OF THE BUILDING, OR ANY SIMILAR WORD.

Contents

CHAPTER 1: DVR USER MANUAL

1 GETTING STARTED	8	
1.1 Checking Supplied Items	8	
1.2 Connecting Peripheral Device	9	
1.3 System Startup and Shutdown	10	
2 EXPLANATION FOR EACH FUNCTION	12	
2.1 Front Panel	12	
2.2 Rear Panel	13	
2.3 IR Remote Controller	14	
3 OPERATION	15	
3.1 User Log-in	15	
3.2 Quick Startup Wizard	16	
3.3 Live Display Mode	17	
3.4 PTZ Operation	22	
3.5 Freeze Mode	23	
3.6 Call Monitor Operation	24	
3.7 Playback of Recorded Video	24	
3.8 Single Channel Playback in Live Mode (Cameo)	26	
3.9 Quick Backup during Playback	27	
3.10 Search Recording Image	28	
3.11 DST Setting	32	
3.12 Screen Saver	33	
4 Setting	34	
4.1 System	35	
4.2 Device	43	
4.3 Record	48	
4.4 Network	51	
4.5 Backup	55	
4.6 Quick Setup	57	
5 WEB SURVEILLANCE	58	
5.1 Web Login	58	
5.2 Web Configuration	59	
5.3 Web monitoring	61	
5.4 Web Playback	64	

CHAPTER 2 : CMS CLIENT SOFTWARE USER MANUAL

6 CMS User Guide	68	
6.1 PC REQUIREMENT	68	
6.2 INSTALL	68	
6.3 UNINSTALL	70	
6.4 BASIC OPERATION	71	
6.5 CMS FUNCTIONS	80	
6.6 CMS SETUP	86	

CHAPTER 3 : ACS CLIENT SOFTWARE USER MANUAL

7 ACS USER GUIDE	94	
7.1 System Requirement	94	
7.2 Install	94	
7.3 Uninstall	96	
7.4 Basic Operation	96	
7.5 Advanced Operation	102	
7.6 ACS Setup	105	

CHAPTER 4 : MAC ACS CLIENT SOFTWARE USER MANUAL

8 MAC ACS USER GUIDE	112
8.1 System Requirement	112
8.2 Install	112
8.3 Basic Operation	113

CHAPTER 5 : FACESTAMP SOFTWARE USER MANUAL

9 FACE STAMP SOFTWARE	122

9.1 Face Stamp Software Set-up

CHAPTER 6 : MOBILE PHONE SOFTWARE USER MANUAL			
10 MOBILE PHONE SOFTWARE USER GUIDE 130			
10.1 iPhone application software	130		
10.2 Android application software	140		
10.3 Using WAP+3G Connection	151		
APPENDIX : DYNDNS SITE REGISTRATION	153		
APPENDIX : NETWORK SETUP FOR EXTERNAL USAGE	155		
APPENDIX : SPECIFICATION 1			

5 | H.264 Digital Video Recorder



Chapter 1 DVR USER MANUAL

7 | H.264 Digital Video Recorder

1 GETTING STARTED

1.1 Checking Supplied Items

Make sure that you have the following items supplied with your DVR. If any of these items are missing or damaged, notify your vendor immediately. Keep the packing utilities for moving or storage purposes afterwards.

Items	Photo	Quantity
User Manual (DVR & Software) Quick Start Guide		1 Set 1 Set
CD (Manual & Software) Rubber Mount		1 Set 1 Set (4 Pieces)
12V DC Adaptor Power Cable		1 Set
IR Remote Controller		1 Set
USB Mouse		1 Set
Ground Screw		1 Set (1piece Vmax960HFlex Rear / 1piece)

1.2 Connecting Peripheral Device

This section describes how to connect peripheral devices efficiently to the DVR.

Install the DVR on flat surface. If required, attach a rubber mount for installation. If a 19-inch rack is used with 1.5U Height case, it is recommend to install the system on a shelf and use 2.5~3U (1U=1.75 inch or 4.45 cm) space for proper ventilation.

NOTE Install the system in a location with good ventilation to prevent overheating.

[8CH (W)360x(H)66x(D)380mm]



[16CH (W)360x(H)66x(D)380mm]

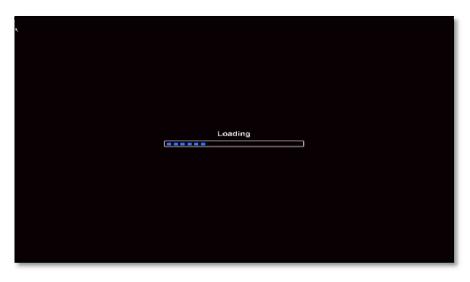


WARNING! * When connecting power cord to the system, it is strongly recommended first to plug the power cord to the system and then plug the other side of power cord into the wall socket.

1.3 System Startup and Shutdown

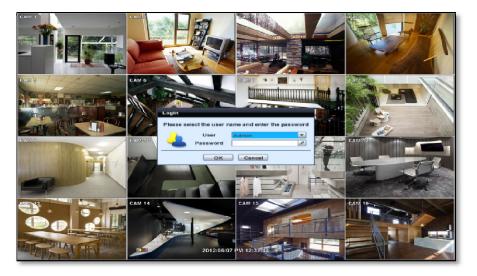
1.3.1 System Startup

After connecting peripheral devices such as cameras, monitors and a mouse to the DVR, power up the DVR by connecting DC12V 6.67A adaptor to the power jack on the rear panel. The boot log will display as shown below. Please wait until the boot process completes.



Login with 'User Name' at the login window which will appear as shown below.

There is only one Administrator Account configurable in the DVR system. It is assigned with an unchangeable User ID marked as 'admin'. The default password is empty (No Password). Administrator account has full access to the DVR and its configurable parameters. The Administrator Account also has the ability to create new users and to assign rights to the new user accounts. Those new users created by 'admin' account can also login with a specific password set by 'admin' account.



NOTE Do not forget the administrator's password that was set for the first time. In case the password is lost, contact your vendor.

NOTE The mouse is included. In case you need to replace it, it is highly recommended to choose well-known major brands such as DELL, MICROSOFT, LOGITECH, or SAMSUNG.

1.3.2 System Shutdown and change password

Option 1. Click the Shutdown button and input password on pop-up to power off the DVR

Option 2. Click the right button on the mouse and select the Shut Down to power off the DVR.

Q: D 20	00	<i>iiii</i>	s	STEM			
System Info	User	Export/Impor	t HDD	Default	Face Sta	mp	
							_
			Warning				
Ţ	Factory Default enables you te initialize the system Factory reset You will lose all (or selected) user programmed system setup.						
	All						_
	System		Device		Rec	ord	
	Network		Quick Set	пр			
	Quick Sta	rtup Wizard			Start	Shut Do	wn
							Close



NOTE It is not recommended to disconnect the power cable abruptly from the back of the DVR because it may affect the DVR and Hard Drive.

The default password for 'admin' account is none. Therefore, just click 'Enter' button on the dial pad. If you changed the password for 'admin' account, please type in the changed password to login.

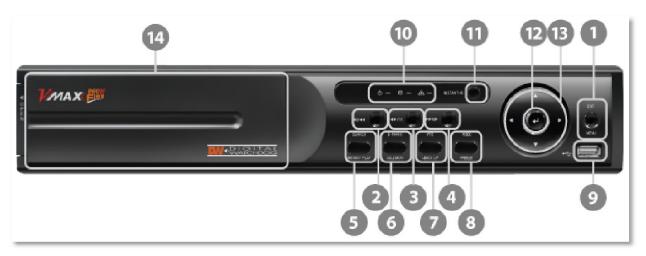


NOTE User can type in the password using the virtual keyboard or the numeric buttons on the IR remote controller.

2 EXPLANATION FOR EACH FUNCTION

2.1 Front Panel

[8/16CH (W)428x(H)93x(D)446mm]



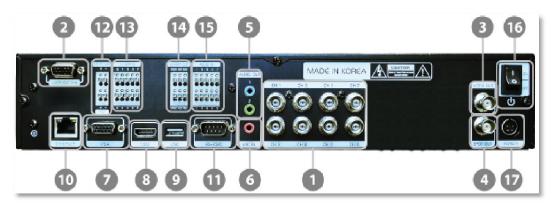
No.	Buttons	Functions
1	Menu / Exit	Menu/ Exit Button
2	Playback Speed Control	Playback Speed Control(Short Press) when Playback Reverse Step Playback(Short Press) when Pause First Data Playback(Long Press)
3	Forword & Backward Play Pause	Jump Forward & Rewind Playback Video (Long Press) / Pause Video (Short Press)
4	Playback Speed Control	Playback Speed Control(Short Press) when Playback Forward Step Playback(Short Press) when Pause Last Data Reverse Playback(Long Press)
5	Search / Instant Playback(Press & Hold)	goto Search menu(Short Press), Last Data Reverse Playback(Long Press)
6	Bookmark / Call Monitor(Press & Hold)	Book-Mark(Short Press) Used to display full screen video of all installed cameras in sequence by spot ouT(Long Press)
7	PTZ / Instant Backup(Press & Hold)	Bring Up PTZ Camera Control(Short Press) Used to initiate instant back up(Long Press)
8	Mode / Freeze (Press & Hold)	Change screen mode(Short Press) Used to initiate Freeze function(Long Press)
9	USB Port	1x 2.0 USB Port (Mouse, Backup, F/W Upgrade)
10	LED Indicator	Change screen mode(Short Press) Used to initiate Freeze function(Long Press)
11	Instant Record	Emergency Recording
12	Enter	Enter Button (Execute Selected Menu & Designated Value)
13	Direction	Direction Arrows used to Navigate the GUI and Menu Options
14	DVD±RW	DVD-RW Door

NOTE I- Backup (Instant Backup)

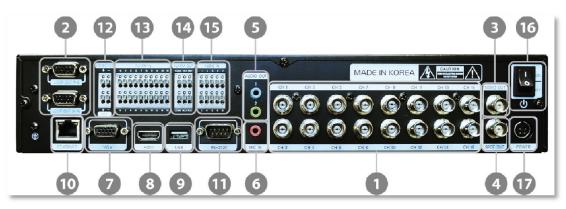
In playback mode, the user can press the "I-backup" button on the frontal keypad to configure both "start" and "End" time. Once the "Start" and "End" time is set, click the "Start" button to start the backup process.

2.2 Rear Panel

[8CH (W)360x(H)66x(D)380mm]



[16CH (W)360x(H)66x(D)380mm]



No.	I/O	Functions
1	VIDEO-IN	Camera Input from CH1 upto CH16 (Auto-detect NTSC/PAL)
2	LOOP OUT	Loops through output from CH1 upto CH16 (*Accessory not included)
3	VIDEO OUT	Composite Output
4	SPOT O UT	Progra mmable digital spot output
5	AUDIO OUT	Audio out 1 (Blue) : Main audio output (amplifier) Audio out 2 (Green) : Two-way Audio output
6	MIC IN	Microphone input
7	VGA	D-sub 25pin VGA Output
8	HDM I	True HDMI Output
9	USB	2.0 USB ports (mouse, backup, F/W update)
10	Ethernet	Gigabit Network port (10/100/1000)
11	RS-232C	Serial port for external devices
12	PTZ / KEYBOARD	2 x RS-485 for PTZ camera (Bottom RS-485 Port) and keyboard controller (Upper RS-485 Port)***
13	ALARM IN	Alarm Input 1~16
14	Alarm Output	Alarm output (2 relay output and 2 TTL outputs)
15	AUDIO IN	Audio input (amplifier)
16	Power On / Off Switch	Power switch On/ Off
17	POWER	Main power supply connection (Default : 12 V, 6.67A)

Note 1. Carefully check whether the specification of the peripheral devices matches the DVR's specification. ***2. When using the RS-485 ports, make sure to use the correct ports. Remeb

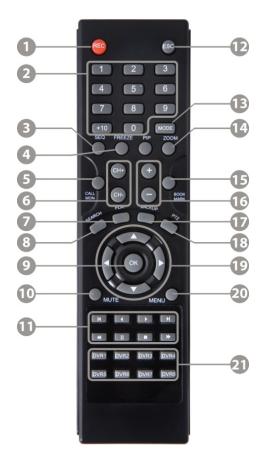
2.3 IR Remote Controller

In order to use IR Remote Controller, the ID of the IR Remote Controller must be same as the ID of the DVR.

(Default ID # for DVR and IR Remote Controller is "1".)

If you have more than two DVRs, you are able to control them individually with just one remote controller by setting up 'Remote ID'. (The Remote ID is adjustable from '1' up to '8'.)

The function buttons of the IR Remote Controller are as below.

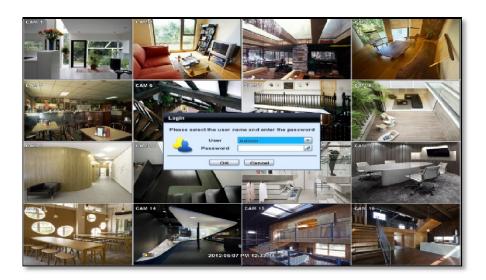


No.	Functions
1	Instant (Emergency) Recording Button
2	Numeric Button
3	Auto-Sequence Button on Live Display Mode
4	Freeze Button
5	Call Monitor Button
6	Channel Selection Button
7	Instant Playback Button
8	Search Button
9	OK (Select) Button
10	Audio Mute Button
11	Playback Button on Search Mode
- ''	(Fast Backward/Playback/Stop/Fast Forward)
12	Exit Button
13	Display Mode Button
14	Zoom Button
15	Bookmark Button
16	Zoom In & Out Button
17	Backup Button
18	PTZ Button
19	Direction Button (Up/Down/Right/Left)
20	Menu Button
21	ID Select Button (DVR1 ~ DVR8)

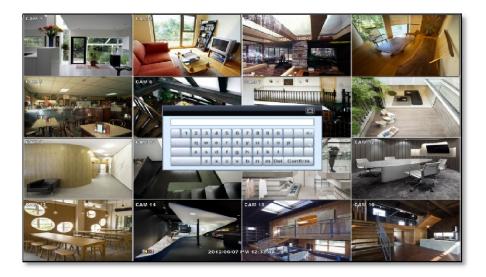
3 OPERATION

3.1 User Log-in

The DVR has various setting categories. The administrator can set the system password and <User> to prevent unauthorized changes to setting values and alteration of recorded file.



Enter the <Admin> or <User> password which had been set by using the virtual keyboard.



NOTE 1) <LOGIN> window will be permanently displayed in monitor as above picture until user logs in with the right ID and password.
2) If it is set as Auto Log-In, DVR does not require LOG-IN. (Please refer to 4.1.2 User.)

-

-

-

3.2 Quick Startup Wizard

Quick Startup Wizard is specially designed to make it much easier for the major DVR settings such as Time/Date setup, Record setup, Network setup and Quick setup. When the DVR boots up, the Quick Startup Wizard operates automatically. It can be disabled by setting in the main menu.

Language English

Date/Time Format YYYY/MM/DD

Date/Time 2012/05/30 AM 08:39:52

Display Format YYYY/MM/DD HH:MM:SS

Quick Startup Wizard

Adjust the date & time for the DVR. Setting this before the DVR starts recording will prevent and time conflict, which may result in data loss. See section 4.1.1 System Info for more information.

See section 4.4 Network for more information on setting up the DVR for external connection.

Use the DVR recording calculator to setup the best recording parameters for your needs. See section 4.6 Quick Setup for more information.

	Use DST	
Default	Next	Cancel
Quick Startup Wizard	Network	
NetworkType	Static IP	IP Detect
IP Detect Progress	0]
IP Address	192.168.1.160	P
Subnet Mask	255.255.255.0	P
Gateway	192.168.1.1	ad a
DNS Server 1	0.0.0.0	P
DNS Server 2	0.0.0.0	æ
TCP/IP/Mobile Port	9010	æ
Web Port	80	P
Bandwidth Limit	100 Mbps	-
	Use UPNP Auto Private IP Setup (NAT Traversal)	
Default	Previous Next	Cancel

Date/Time

12H

Time Zone Greenwich Mean Time : Dublin ,Edinburgh,List

Quick Startup Wizard	a Quick Setup
	Use Quick Setup
Input Desired Days	
Record Setting	
Record Resolution	480*288
Record FPS	6
Record Mode	Continuous
Record Quality	Highest
Days To Record	
Live Stream Setting	
Network Resolution	480*288
Network FPS	7
Network Quality	Highest
Default	Audio
Default	Previous Save Cancel

3.3 Live Display Mode

3.3.1 Full HD(1080p) Live Display

Full HD Live Display can be supported in live mode by using its HDMI and VGA output.

NOTE In playback mode, the maximum resolution is 960x480 / 960x576(NTSC/PAL).



<Full HD Live Display>

3.3.2 Automatic 5x Signal Extender (Built-in 4CH)

The adjustable 4CH built-in 5x Signal Extender Video Amplifier enables to extend the distance coverage upto 900m (2950ft) between camera and DVR. (From CH1 to CH4 only)

Distance using Co Cable	opper-Core	Distance using Non- Copper-Core Cable
Cat-5/ Csat-5e (RG-45 Cable)	4,000ft	2,000ft
Cat 6 (RG-45 Cable)	4,000ft	N/A
Coaxial RG-59 (BNC Cable)	5,000ft	1,500ft



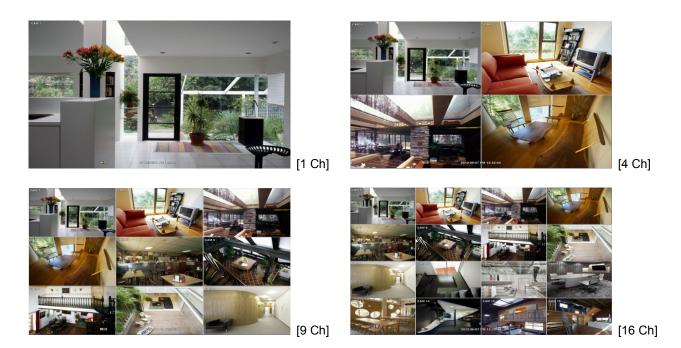
3.3.3 Channel Selection

Channel selection can be done by following one of the steps below:

- 1. CH1~CH16 buttons in the IR Remote Control.
- 2. 1~16 virtual buttons at the bottom of the GUI display.

The display mode can be changed by pressing the 'MODE' button on the DVR's front panel.

The live images can be displayed in real-time in 1, 4, 9, 16 screen splits. Whenever the left/right arrow button on the front panel or IR remote controller is pressed, the screen will be sequentially changed.



To select channel by mouse, click target channel single time to display in full screen. To return to previous display mode, click the screen again.

To view the pop-up menu, right click anywhere on the display screen.

NOTE To properly select a channel using the mouse, the user is required to perform a slow and clear click of the left mouse button.

3.3.4 Icons

The live mode display's icons or messages will be indicated on the screen to indicate the system mode or status.

Below are the icon categories that are indicated on the monitor:

at Left-u	lcon to be shown upper corner on each channel screen	at Lef	lcon to be shown ft-bottom corner on full screen.
C	Continuous Recording	SEQ	Sequence display on
M	Motion Detection Recording		Digital zoom on
5	Sensor Activating Recording	1	Audio Channel
CHM	Continuous+ Motion Recording		
C S	Continuous + Sensor Activating Recording		
MIS	Motion Detection + Sensor Activating Recording		
Continuous + Motion Recording + Sensor Activating Recording			
Emergency Recording			
F	FaceStamp Recording		

NOTE If you cannot find any colored-mark in the top right corner of the live screen mode, then it means that the system does not record any image. In this case, you need to check recording schedule or camera of the main setup menu.

The sliding menu for display will be appeared when mouse cursor move into bottom and right click of mouse enale to access pop-up-menu.

To show the menu bar, move the mouse's cursor to the bottom of the screen. The menu bar will be displayed.

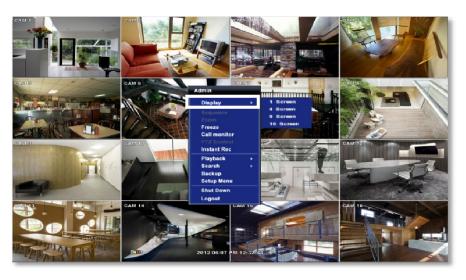
To hide the menu bar, move the mouse's cursor away from the menu bar.



	Menu Bar						
Menu button. When pressed, System Setup, Search, Backup, Logout will appear.							
	Screen split options- Select from single channel, 4 channel, 9 channel, or 16 channel display.						
ð	Sequence- if pressed, the system will start displaying all the channels in sequence mode. To stop, press the button again, or right click on the screen and select 'SEQUENCE'						
Ch. 1 2 0 4 6 6 7 0 9 10 11 12 13 14 15 16	CH. Buttons- view a specifc channel in full screen mode.						
	Instant (emergency) recording- The system will record video based on the panic record settings (Default: 30FPS @ 960x480).						
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	PTZ mode- Control any supported PTZ cameras by moving the mouse pointer.						
	Go to Instant playback.						
60 3	HDD usage indicator- Indicates the percentage of your HDD being used. If it shows 60%, then 60% of HDD space has been used.						

3.3.5 Pop-up Menu

User can click the right button of the mouse to pop up sub-menu as shown below.



DISPLAY- Select the display split from the available options:

- 1 Screen- Single channel. Automatically displays CH1. If 1 Screen is selected again, next chronological channel will be displayed.
- 4 Screen- Quad mode. Automatically displays channels 1~4. If 4 Screen is selected again, the next chronological 4 channels (5~8) will be displayed.
- 9 Screen- Automatically displayes channels 1~9. If 9 Screen is selected again, the next cohoronological channels (10~16+1~2) will be displayed.
- 16 Screen- Displays all 16 channels (available only in 16 channel models)

SEQUENCE- when selected, **SEQ** icon will appear on the bottom right corner of the screen, and the display screen will be sequentially changed (Please note, option will be disabled if display area is in 16 channel mode).

ZOOM- Enables/ disables digital zoom function. When enabled, **ZOOM** icon will appear and zoomed area will be displayed on the bottom right corne. The Zoom will automatical y focus on the center of the camera's display. To adjust ot, go to the small zoom display at the bottom of the camera display and move the yellow frame to the desired are you would like to view in zoom. To move the yellow frame, use your mouse to drag the lines of the yellow frame to the desired location. To go back to live display mode, right-click on the screen and select "ZOOM" again. This feature is available in single channel mode only.

FREEZE- Freezes the current image. See section 3.5 Freeze for more information.

CALL MONITOR- Enter Call Monitor Control Mode. See section 3.6 Call Monitor for more information.

PTZ CONTROL- Open the DVR's PTZ control. See section 3.4 PTZ for more information.

INSTANT REC- Start/ Stop Panic Recording.

PLAYBACK- Select playback option:

- 10, 15, 30, 60 seconds- start playback from the selected number of seconds ago.
- 2, 3, 5, minutes- start playback from the selected number of minutes ago.
- Open Playback Mode- automatically go to instant playback.

SEARCH- Select video search options:

- Date/ Time- open calendar search.
- First/ Last Data- Go to the first or last recorded data.
- System/ Event Log- open log search window.
- Bookmarks- open bookmark search.
- Single Channel Search (Cameo)- change selected channel to single channel playback in live mode.

SETUP- open the DVR's main menu.

SHUT DOWN- Power off the DVR.

LOGOUT- User logout.

When a camera is disconnected, a warning sound may be generated depending on the system settings.



As the Admin user, you can seup up multiple users with different levels of authorization. If a certain user is not allowed to view a certain camera in live or playback, then no image will appear on the display screen. To create, delete, or modify users, go to the main menu and select system settings. See section 4.1,2 User for more information.

User Add /Edit	SYS	STEM
Authority / User Description Password	User1 User1	User1 Ø
Function	🗌 All	Backup
Menu Access	All Device Backup	Record Quick Setup
Live & Playback	All 04 05	06 07 08 14 15 ⊠ 16
	(OK Cancel

3.4 PTZ Operation

Before starting PTZ control, please make sure the camera you wish to control is a supported PTZ camera and is installed and configured properly. See section 4.2.6 PTZ for setup information. To enter PTZ mode, follow one of the options below:

- 1. Right-click on the screen and select PTZ Control.
- 2. Click on the joystick button in the menu bar located on the bottom of the main screen.
- 3. Press the PTZ button on the DVR's front panel, or
- 4. Press the PTZ button on the IR remote control.



In PTZ mode, user can control PTZ operation with the USB mouse.

While pressing the left button of the mouse, drag the mouse pointer up/down, left/right to move pan/tilt position of the camera accordingly. The further away from the center of the screen you move the mouse, faster will the camera move. The user can also zoom-in/out by rolling the wheel of mouse up or down.

For focus control in PTZ mode, right-click to get the pop-up menu as shown below. Default mode is to "ZOOM". Select "FOCUS" to switch the mouse's wheel function from zoom-in/out to focus near/ far.

The user can also select the preset button to start/ stop a preset, or exit PTZ screen model.



NOTE User will see numeric pad to select "Preset" number. The preset is defined by setting a PTZ protocol in the setting menu. The maximum number of preset is 255, but the number of available presets may vary by camera make and model.

NOTE Full PTZ functions are available by using USB mouse, IR remote control, or keyboard controller and are available only on supported PTZ cameras.

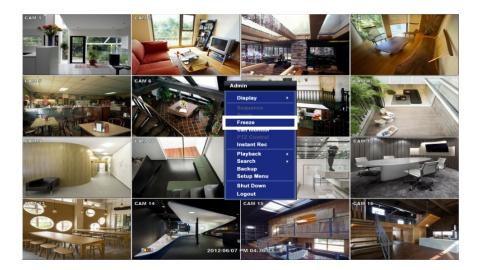
User can automatically switch PTZ camera positions according to defined presets by using the GUARD TOUR function. The connected PTZ camera must support touring functions. "GUARD TOUR" on the pop-up menu can be enabled only in full screen mode. See 4.2.6 PTZ for instructions on how to setup the GUARD TOUR.



CAUTION Depending on PTZ camera, some preset positions might be skipped if, for example, the PTZ camera cannot <u>mechanically</u> move or control focus within the interval time required by the DVR. In this case, it is recommended to increase the interval setting to a value that allows for the cameras to finish its Pan & Tilt.

3.5 Freeze Mode

Press FREEZE button on the front panel, or click the right button on the mouse and select the Freeze mode while viewing a live image. In the Freeze mode, the image pauses; the date/ time information does not; and the system clock continues running. Press FREEZE to pause the live view. To resume the live view, press FREEZE again, or click the right button on the mouse and select the FREEZE again.



3.6 Call Monitor Operation

Press the CALL MON button on the front panel, or click the right button on the mouse and select the CALL MONITOR in order to enter call monitor control mode. The numeric panel will pop up at the center of the screen.

Click the specific channel button on the numeric panel to display full screen mode out of assigned spot out channels.

• Press the close button on the bottom of the numeric panel. It will go back to the previously programmed spot monitor mode.



NOTE - A spot out monitor displays another spot out monitor's video in full screen through the function, call monitor.

- In spot sequence setting mode, if Call monitor is selected, spot sequence stops and selected channel pops up.

- While call monitor runs, if a channel event happens, Call monitor stops and the event pops up.

3.7 Playback of Recorded Video

To play a recorded video, press the Play button from the menu bar, or the Instant Play in the DVR's front panel or on the IR remote controller.

The recorded files can be seen in rewind or fast forward modes. Press the rewind and fast-forward buttons to control the playback's speed (2, 4, 8, 16, 32 times real time when playing backwards or forwards).



User can click playback button

automatically play the latest video clip in rewind mode.



25 | H.264 Digital Video Recorder

The picture below shows the system playing back a video.

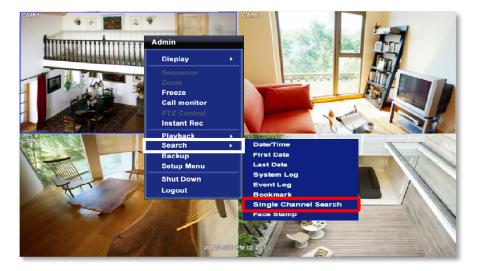


In playback screen, user can make various playback modes, make an instant manual backup (archive), go to calendar search mode, change channel, and change screen modes. By clicking the left mouse button in the colored-time bar, the user can jump to a different time in the recording. In addition, user can move the vertical search bar and release by dragging it back and forth to search the desired time in detail.

Button	Function
	Jump to first data. If recording is set to motion, system will jump to previous recorded motion video.
	Fast rewind
41	Frame-by-Frame Rewind
	Play video in rewind
	Pause video
	Stop Playabck. When selected, the Playabck menu window will appear.
	Playback video
	Frame-by Frame playback
•	Fast playback
M	Jump to last data. If recording is set to motion, system will jump to the next recorded motion video.
Q	Go to calendar search
B-MARK	Bookmark Video
E	Backup
×	Exit Playback to Live mode.

3.8 Single Channel Playback in Live Mode (Cameo)

Single channel playback can be displayed while other channels are still in live mode. In live view mode, right-click on the channel that you want to view in playback and select Search→ Single Channel Search.



Hover the mouse's cursor over the selected channel to display the playback control bar. Use the playback control bar to playback, fast rewind, pause and play the video. The channel in playback mode will be indicated by a blue frame around it.

To return to live mode, press the x button on the top right-hand corner of the playback control bar.

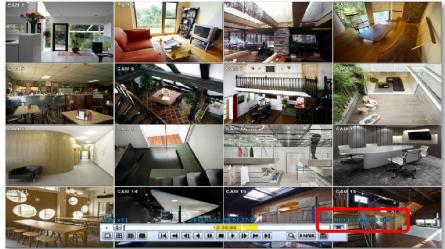


3.9 Quick Backup during Playback

User can easily archive video while viewing the video playback.



1. In playback mode, press and hold the "I.BACKUP" button on the front panel to set start time for the backup video. "INSTANT BACKUP START" will appear at the bottom right hand corner of the display.



- 2. Press the "I.BACKUP" button again to set the backup's end time. The backup menu window will pop-up.
- 3. If necessary, adjust the following options:
 - a. Select the channels to be included in the backup file.
 - b. Adjust the start and end time of the backup file.
 - c. Select to include the Backup Viewer with the archived file.
 - d. Calculate the expected size of the backup file
 - e. Device- CD/DVD or USB thumb drive.
 - f. Complete the backup.

	Instant Backup
Channel	
	V01 V02 V03 V04 V05 V06 V07 V08
	V09 V10 V11 V12 V13 V14 V15 V16
Start Time	2012/07/31 PM 05:03:06
End Time	2012/07/31 PM 05:03:06
File Size	O MB
	Add Backup Viewer
	Calculate
Device	▼ Scan
File Name	<u>B</u>
Password/Confirm	
Backup Start	Start
Help	Close
Contraction of the local division of the loc	

NOTE Help The "HELP" button oofers interactive help, recommended settings and step-by-step instructions on how to correctly setup main functions in the DVR. For example, if you need help on how to set "BACKUP", click "HELP" button at the right bottom of the BACKUP menu.

3.10 Search Recording Image

3.10.1 Date/Time Search

To search your recorded data by date/ time, follow one of the options below:

- 1. Click the quick Menu button at the left side of the menu bar, select Search→ Date/ Time
- 2. Right-click anywhere on the screen, select Search→ Date/ Time



The calendar window will appear, Days with recorded data available will be indicated in RED.

- Select from the calendar the date. If necessary, use the manual year and month options on the left side to adjust the calendar view.
- 2. The 'Intelli-Search Bar' at the bottom of the window will display hours when recorde data is availablein color code. Once the recorded video data of the selected date is shown, user can adjust the vertical search line to the time that user wants to search by dragging a mouse. As the vertical line is moving back and forth, user can see "the Search time" clock is also changing. When user decides the Search time, click Play to see the selected video data.

			Date/	Time S	Sear	sh							
Record	Time: 20	12/05/22	AM 09:	58:22 -	201	2/06	/01 F	M O	3:35:	39			
4 Year Time	2012		th 5	¢ \$		5	M	T 1 8	2 9	T 3 10	F 4	5	
3	Panic Motion M+S C+M		Sensor Contine C + S C + M +	uous		13 20 27	14 21 28	15 22 29	16 23 30	17 24 31	1	り	
CH 1 2 3 4 5	2	4 6	8	10	12	1	4	16	18	2	0	22	24
6 7 8	cm - cm	•) (כווש	- cm -							2013			
							(P	lay		Car	ncel

3. The colors of the time bar are different, depending on the recording mode.

No color - NONE- Camera has no recorded data for the selected time.

Red- Panic recording- recording triggered by the user when pressing the Instant/ Panic Recoreding.

Yellow- Continuous recording.

Green- Motion recording- The system records only when motion is detected.

- **Orange-** Sensor recording- The system records when a sensor is triggered and only during the dwell time as set in "SENSOR" of the "DEVICE" menu. If "SENSOR" is disabled under the "DEVICE" menu, and recording schedule is set to "SENSOR", the system will not record even though a sensor is triggered.
- Blue- "Continuous" + "Motion"-The system records continuously and will switch to the motion recording configuration if motion is detected in the motion area. The system will also send a "motion event" message to the Pivot Client Software over the network. If "MOTION ALARM" is disabled in the "DEVICE" menu, and recording is set to "CONT + MOT", the system will record with continuous recording even when motion is detected in motion area.
- Orange- "Continuous" + "Sensor"- The system records continuously and will switch sensor recording if a sensor is

triggered during dwell time. The system will also send a "sensor event" message to the Pivot Client Software over the network. If "SENSOR" is disabled in the "DEVICE" menu, and recording mdoe is set to "CONT + SENS", the system will record with continuous recording even when a sensor is triggered.

- **Pink** "Motion" + "Sensor"-The system records only when motion is detected **AND** when a sensor is triggered at the same time. If 'MOTION' and 'SENSOR' are both disabled in the "DEVICE" menu, the system will not record nor notify the Pivot Client Software when motion occurs or a sensor is activated.
- Purple- "Continuous" + "Motion" + "Sensor"- The system records continuously and will switch to 'MOTION' or 'SENSOR' recording mode if motion is detected in the motion area, or if a sensor is triggered during dwell time.
- 4. To view video from the selected time, follow one of the options below:
 - a. Use the manual hour option to view specific hours of the day.
 - b. Using the table, click on the hour you would like to view in playback.
- 5. Press the 'Play' button at the bottom fo the window. The system will display all channels in playback mode, corresponding to the selected date and time.

CAUTION Dark Blue Color

The data recorded during DST (Daylight Saving Time) will be indicated in Dark Blue color in the Intelli-Search Bar on playback mode.

3.10.2 Event Log

The Event log search allows you to search for a particular event, quickly and easily, displaying the search results in a detailed table format.

- 1. To open Event Log Search, perform one of the following options:
 - a. Click \blacksquare quick menu button, select Search \rightarrow Event Log
 - b. Right-click anywhere on the screen ans select Search→ Event Log.
- 2. Select the date you would like to search.
- 3. Select which events should be included in the log report. Select from: Sensor, Motion, Video Loss, Panic Recording, HDD Full, or All.
- 4. Press 'Search'. The system will display all search results in the table, starting with the latest events.
- 5. Use the buttons on the bottom of the window to move between the log report's pages.
- If necessary, export this log report to a USB memory device in text file format.
 - a. Attach a USB memory stick to the USB port
 - b. Press "SCAN" to detect the USB stick
 - c. Press "EXPORT" to copy the log information to the media.
- 7. Click play icon to play back the selected event data.

	Search Date		Search
No.	Date/Time	Event List	Play
1	2012-05-22 10:44:07	Video Loss / Ch.1	
2	2012-05-22 10:40:07	Video Loss / Ch.1	
3	2012-05-22 10:15:11	Video Loss / Ch.1	
	H	1/1 2 PH	
De	vice	Scan	Export

NOTE If an alarm or event do not appear in the envent log, check the alarm settings, and connection port at the DVR's rear panel.

3.10.3 System Log

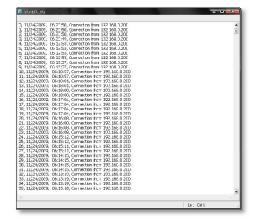
The system log search allows you to search for any changes made to the system, quickly and easily, displaying the search results in a detailed table format.

- 8. To open System Log Search, perform one of the following options:
 - a. Click \blacksquare quick menu button, select Search \rightarrow System Log
 - b. Right-click anywhere on the screen ans select Search→ System Log.
- 9. Select the date you would like to search.
- 10. Select which events should be included in the log report. Select from: System, Setup, Network, or All
- 11. Press 'Search'. The system will display all search results in the table, starting with the latest events.
- 12. Use the buttons on the bottom of the window to move between the log report's pages.
- 13. If necessary, export this log report to a USB memory device in text file format.
 - a. Attach a USB memory stick to the USB port
 - b. Press "SCAN" to detect the USB stick
 - c. Press "EXPORT" to copy the log information to the media.

_						Sys	tem Lo	g		
		Sea Sea		Date n		12/06/0 Setup	7/Thu	V Network	(E)	Search
No.		Date	Tim	8				Event	List	
1	2012/	06/07	AM	10:10	:47	NET ST	ART			
2	2012/	06/07	AM	10:10	:49	Update	Static	IP 192.168.	1.160	
3	2012/	06/07	AM	10:10	:49	Update	DNS S	erver 0.0.0	.0	
4	2012/0	6/07	AM	10:13:	16	NET ST	ART			
5	2012/0	06/07	AM	10:13	18	Update	Static	IP 192.168.	1.160	
6	2012/0	6/07	AM	10:13:	18	Update	DNS S	erver 0.0.0	.0	
7	2012/0	6/07	AM	10:13	31	Login u	iser:Ad	tmin		
8	2012/	06/07	AM	10:13	:34	System	setup	begin		
9	2012/	06/07	AM	10:13	:34	System	setup	begin		
				H		1/7		<i>•</i> • •		
C	evice								Scan	Export
										Close

Once export is completed, the user can find a date folder created in USB thumb drive.

There is "system.log" file stored in the date folder.



31 | H.264 Digital Video Recorder

Νοτε	9 numbers of log record will be shown on one page of the <system log=""> and <event log=""> window. User</event></system>
	can click the arrow icon to search the log records on another page.

3.10.4 First Data

Go to the first screen of the recorded video. This is the oldest video recorded.

3.10.5 Last Data

Go to the last screen of the recorded video. This is the latest video recorded.

3.10.6 Bookmark

Go to the bookmark list to search the recorded video data in the bookmark list. Users can make their own bookmark list very

simply by click button, during playback. When you do bookmark search, you can easily playback the bookmarked

video data by clicking button, right next to each list.



NOTE User can press "SEARCH" button on the front panel to get the SEARCH pop-up menu as shown above. In this menu, full search functionality is controlled using the front panel key buttons.

3.11 DST Setting

DST starts at 2:00 local time on 2nd Sunday of March, and ends at 2:00 DST on 1st Sunday of November.

During DST (Daylight Saving Time) period, DVR time clock has to be adjusted according to regional time zone. That is, the DVR time clock will be shifted by one hour after the DST settings start, and the DVR will restore the time clock back to normal after DST finishes.

To make DST setting on the DVR, go to the menu: SYSTEM > SYSTEM INFO and click "DATE/TIME" to get the DST setting window as shown below. User can setup DST "Begin & End" time after checking "USE DST" box.

🏩 🕒 🔁 🔾 🌍 🤤	SYSTEM	
System Info User E	xport/Import HDD Default	Face Stamp
Date/Time	2012/07/23 PM 02:47:01	B
HDMI Resolution	1920x1080i	
Language	English	
Remote ID	1	
Version	ver 4.2.1.1.45	Upgrade
Video Signal	PAL	
IP Address	192.168.1.160	
Mac Address		
Keyboard ID	1	
Keyboard		9600
	Keypad Beep	
	NTP Display	Screen Saver
Default Help		Save Cancel

ے 🤹	22 🔍 🍫 🦪 🧲	SYSTEM	
System	Info_User_Export/import Date/Time	HDD Default Face Stamp	_
			2
	Date/Time	2012/06/07 PM 08:00:24	
	Display Format	YYYY/MM/DD HH:MM:SS	•
	Date/Time Format	YYYY/MM/DD 🔳 12H	•
	Time Zone	Greenwich Mean Time : Dubli	•
		Use DST	
		OK Cance	-
Defau	itt Help	Save	Cancel

Since the clock jumps from 2:00 to 3:00, when you go to search mode, you can clearly see there is no data in all channels for one hour due to DST.

DST ends at 2:00 DST, and the clock jumps backward to 1:00 standard time on 1st Sunday of November.

When DST finishes, there is an hour of overlapped video. The overlapped time video will be indicated in a blue color in the Intelli-Search Bar during playback mode.



When user click on such overlapped period, a message titled "Recorded video Selection" will pop up. The user can then select whether to play DST data or Non-DST data.



["DST" image is displayed on screen]

Click CANCEL to play Non-DST image.

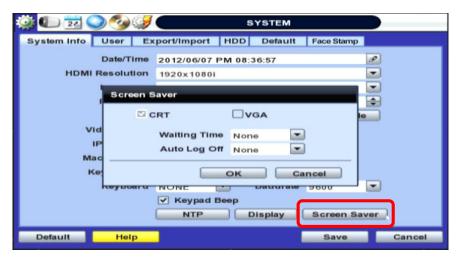


["Non-DST" image is displayed on screen]

3.12 Screen Saver

To make SCREEN SAVER setting on the DVR, go to the menu setup: SYSTEM > SYSTEM INFO and click "SCREEN SAVER" to get the SCREEN SAVER setting window as shown below. Users can select CRT and/or VGA by checking the boxes. Users can set the WAITING TIME for when the monitor will automatically turn off.

Users can turn on the selected monitor by clicking a mouse, pressing any frontal key buttons, or pressing any buttons on the remote controller.



NOTE WAITING TIME: Users can select the WAITING TIME from NONE, 1,2,3,4,5,6,7,8,9,10,20,30,40,50, and up to 60 MIN. The SCREEN SAVER will not work when either WAITING TIME is set to "NONE" or both SPOT and VGA checkbox are unchecked. SCREEN SAVER may not work, during system upgrade, HDD format, or data backup process. The system continues to record while the monitor is turned off. When it comes to the "AUTO LOGOFF" setting, please refer to the USER setting.

4 Setting

General setting structure consists of "System", "Device", "Record", "Network", "Backup," and 'Quick Setup" as shown below.



Main Classification	Sub Classification	
	SYSTEM INFO	
	USER	
SYSTEM	EXPORT/IMPORT	
SISIEW	HDD	
	FACTORY DEFAULT	
	FACE STAMP	
	CAMERA	
	AUDIO	
DEVICE	SENSOR	
DEVICE	MOTION ALARM	
	EXTRA ALARM	
	PTZ	
	RECORD SETUP	
	PANIC RECORD	
RECORD	LIVE STREAM SETTING	
	SCHEDULE	
	HOLIDAY	
	NETWORK	
NETWORK	DDNS	
	NOTIFICATION	
BACKUP	BACKUP	
Q.SETUP	QUICK SETUP	

4.1 System

The system menu button is selected by clicking "TOOL" on the menu bar or clicking the right mouse button.

Users can move mouse pointer from "System" through "Quick Setup" to instantly look around the sub-menus on the menu screen. Using the left mouse button, the user can select a desired category for editing.



4.1.1 System Info

The System Info sub-menu includes the following setup options: Date/ Time, HDMI Resolution, Language, Remote ID, Version & System Upgrade, Video Signal, IP & MAC Addresses, Keyboard Setup, NTP Setup, Display Setup, and Screen Saver Setup.

🏟 🜑 🔁 🕥 🧐 🦪	SYSTEM				
System Info User Ex	port/Import HDD Default	Face Stamp			
Date/Time	2012/07/23 PM 02:47:01	Ø			
HDMI Resolution	1920x 1080i	-			
Language	English				
Remote ID	1	a			
Version	ver 4.2.1.1.45	Upgrade			
Video Signal	PAL				
IP Address	192.168.1.160				
Mac Address	3c:04:bf:03:52:b5				
Keyboard ID	1 🚔				
Keyboard		9600			
Keypad Beep					
NTP Display Screen Saver					
Default Help		Save Cancel			

User's Manual | 36

- **Date/ Time**- manually enter the DVR's date and time, time zone, and enable/ disabled DST.

Using the available options, manually adjust the date and time from the calendar, select the display mode for the time, and the date, and select the appropriate time zone. If applicable, check the 'USE DST' box. See section 3.12 DST Setting for more information.

()) 🔃 🔍 🌝 🦪 🥌 🥌	SYSTEM
System	n Info User Export/Import Date/Time	
	Cater I IIIe	`
	Date/Time	2012/06/07 PM 08:45:10
	Display Format	YYYY/MM/DD HH:MM:SS
	Date/Time Format	YYYY/MM/DD 💌 12H 💌
	Time Zone	Greenwich Mean Time : Dubli
		Use DST
		DK Cancel
Defa	ult Help	Save Cancel

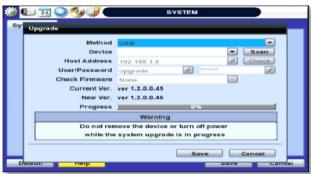
- HDMI Resolution- Select the DVR's output resolution.
 DVRs support the following video resolutions: 1024x768, 1280x1024, 1280x720, 1920x1080.
 User must set the proper resolution according to the monitor resolution
- Language- Select the DVR's display language from the availanle in the drop-down menu.
- Remote ID- Set the DVR's remote ID. This ID should be the same as the IR Remote Control.
- **Firmware Version & system upgrade** when a new version is available, use the easy upgrade menu to upgrade your DVR to the latest version. To upgrade your system, follow one of the options below:

Upgrading system using USB memory stick:

- 1. Insert the USB thumb-drive formatted by FAT32 in any USB port of DVR (compatible with USB 2.0)
- 2. Once the system detects the thumb-drive, user can see its brand or model name in the "DEVICE" field after pressing the "SCAN" button.
- 3. Click "OK" to confirm.

Upgrading system using Digital Watchdog's FTP server:

- Select FTP in the drop-down list and type a given IP address in the Host Address (Digital Watchdog's FTP Server IP Address: 208.179.32.42). Username and password is "none" (Default).
 *The FTP server address is subject to change without a prior notice.
- Click 'Check' button then DVR will detect the latest Firmware version from the FTP server. If there is a new firmware, DVR will ask you whether you want to upgrade it or not.
- 3. Click 'OK' to confirm it and then click 'START' to start upgrading.



CAUTION It is recommended to format the HDD after finishing the firmware upgrade because the data recorded by previous firmware may cause malfunction of DVR due to different format. It is highly recommended to check all functions and menus after a firmware upgrade for proper layout and performance. If necessary, you can return system to its default settings.

- Video Signal- Displays the video out signal from the DVR.
- DVR's IP & MAC Addersses- This information is necessary when connecting to the DVR via its web viewer or the Pivot Client Software. See section 4.4 Network for more information and configuration options.
- **Keyboard setup** Setup the DVR's ID, baudrate and model to match the information of the keyboard you would like to use. The Keyboard's ID must match the ID set in the DVR.

- **NTP Setup** Setup the DVR to automatically sync with a Network Time Protocol. There are two types of TIME SYNC MODE:
 - <u>Server Mode</u>- The DVR is set as a Time Sync Server, which can synchronize its own time with another DVR(s) connected over the same network environment.
 - <u>Client Mode</u>- The operating DVR is set as the client DVR. Enter the IP address or URL of another DVR, Advanced Client Software (ACS), or Central Management System (CMS), as a Time Sync Server in "SYNC SERVER". This will cause your DVR to sync its time with a Time Sync Server in the set interval time.

2	SYSTEM
System Int	fo User Export/Import HDD Default FaceStamp
_	Date/Time 2012/06/07 PM 08:45:23
NT	rP
	DVR as NTP Server
	Sync Port 123
-	DVR as NTP Client
	NTP Server Address pool.ntp.org
	Sync Port 123
	Sync Interval 1 Hour Update Now
	OK Cancel
	NTP Display Screen Saver
	arren saver
Default	Help Save Cancel

 Display Options- Set sequence dwell time, spot-out dwell time, spot-out channel, pop-up camera, and OSD as indicated below:

Live OSD Control C All	
Syste Live OSD Control	
✓ Date/Time ✓ Icon Display Control	
Channel Title Record Status	
Video Loss Display	
Playback OSD Control V All	
✓ Date/Time ✓ Icon Display Control	
Channel Title V Record Status	
Spot Out 1 💌 🗹 All 🗌 Cam Popup	
♥ 01 ♥ ⁴ ▲ 03 ♥ 04 ♥ 05 ♥ 06 ♥ 07 ♥ 08	
♥ 09 ♥ ⁹ 11 ♥ 12 ♥ 13 ♥ 14 ♥ 15 ♥ 16	
Transparting	
0% 50% 100%	
OSD Display Time Out None	
Setup Menu Time Out None	
Sequence Mode Interval 5 Sac SPOT Monitor Interval 5 Sec	
SPOT Monitor Interval 5 Sec	
Det	ncel
OK Cancel	

o OSD:

- Select which information will be displayed in the OSD visible on each channel in Live.
- Select which information will be displayed in the OSD visible on each channel in Playback.
- Set the OSD's transparency level, the higher the percentage, the more transparent the OSD text will appear.
- Setup a dwell time for the OSD text, after which, the OSD will automatically disappear.
- Setup a dwell time for the Setup Menu, after which, the Setup Menu will automatically disappear.
- Set sequence dwell time- Setup how long the system will display each channel in Sequence mode, before switching to the next channel.
- Spot-out Monitor Spot monitor operation
 - 1. Spot out display mode It supports programmable multi display mode(Full,4,9,16) on digital spot output.
 - 2. Spot out channel select- Spot out monitor displays selected channels only or spot sequence displays.
 - ** Non-selected channels are not displayed as black screen in covert
 - 3. Spot out cam popup- If cam popup is set in Sensor, Motion notify, Spot monitor also pops up the event.
 - 4. Spot Monitor interval- Spot Sequence time setting
 - You may select On/Off for Live or Playback status display by checking a check box.
- Screen Saver Setup- See section 3.13 Screen Saver for more information.

4.1.2 User

Master user of this system is always Admin with factory default of No password. This user cannot be deleted.

It is recommended that the Admin change the password for extra security.

Admin can designate a new user with different permission levels by: functions, menu access, and live & playback.

"Function" options restrict a user's access to functions such as search, PTZ control, backup, and playback.

"Menu Access" options restric a user's access certain menu settings, like system, device, record, network, backup, and quick setup.

"Live & Playback" options restrict a user's viewing of the deselected channels. If a channel is deselected, user will not be able to view live or playback for thet certain camera channel

SYSTEM
t
rity/User User1 💌 User1 🖉
escription User1
Password 🖉
V PTZ V Backup
sk 🔤
✓ Device ✓ Record
K 🗹 Backup 🗹 Quick Setup
ack 🗹 All
02 🗸 03 🗸 04 🗸 05 🗸 06 🗸 07 🗸 08
10 🗸 11 🗸 12 🗸 13 🗸 14 🗸 15 🖾 16
OK Cancel el
▼ PTZ ▼ Backup s ▼ All ▼ Device ♥ Record k ♥ Backup ack ♥ All 02 ♥ 03 ♥ 05 ♥ 06 ♥ 07 ♥ 08 10 ♥ 11 ♥ 12 ♥ 13 ♥ 14 ♥ 15 ♥ 16

NOTE Total number of users including administrator is 9 users.

User can change the setting, so the DVR does not require login or lock the DVR control.

-1				The second second						-	
4	No.	Authority	User	Description	Edi		No.		User	Description	Edit
	01	Admin	Admin	Admin	Edit		01	Admin	Admin	Admin	Edit
	02				Edit		02				Edit
1	03				Edit		03	Option			Edit
0	04				Edit		04		Auto Login 📃 On I	Edit	
)	05				Edil		05		uto Logout None		Edit
]	06				Edil		06		Hole Hole		Edit
)	07				Edit		07		ок	Cancel	Edit
	80				Edit		08				Edit
	09				Edit		09				Edit
	lete	i		Option	Ade	-	elete	-		Option	Add

If user selects "On Boot", the DVR will not ask for an ID and Password input again even though the system reboots.

On the contrary, if user selects Auto Log-off and sets the time, the DVR will automatically go to the live display mode that occurs after the set time. Then, the DVR will ask for an ID and Password input when user wants to control the DVR.

4.1.3 Export/Import

Users can copy and paste the system configuration values in this menu. "Export" allows the user to copy the settings for this system to USB memory devices. "Import" allows the user to recall the settings saved from other systems using USB memory devices. During import process, make sure that the firmware version of source DVR is the same as the destination DVR.

🌞 🕕 🔁 🕥 🤡	I 🖉 🗲 👘	S١	STEM		
System Info User	Export/Import	HDD	Default	Face Stamp	
	 Import 		0	Export	_
Select Menu					
	System			Device	
	Record			Network	
	🔲 Quick Setu	р			
Device				Scar	
Export/Import	Start				
					Close

4.1.4 HDD

HDD information sub-menu displays all relevant information regarding all HDDs connected to the DVR.

Press the 'Check' button next to the HDD's name to view that HDD's health status. When pressed, the system will display:

Model: Make and model name of the Hard Drive.

Size: Total size of the Hard Drive, in KB.

Temperature: Hard Drive's current Temperature, displayed in Celsius. Normal operating temperatures should be between 30° and 45° degrees.

Live Time: Remaining estimated hours of operation.

Bad Sector: any unusable areas in the HDD that may affect recording, displayed in percentage of the total HDD.

User can select "Overwrite" or "Rec Stop" when the HDD is full. If 'Overwrite' is selected, when the HDD is full, new video will be recorded OVER older data. If 'Rec Stop' is selected, the HDD will stop recording any data once it's full.

To formay a new HDD or an existing HDD, check the checkbox next to the HDD you would like to format, and click "HDD Clear"

System Info User Export/Import	SYSTEM			System 1	22 🔾 🧐 🦪 💭 🗤 🗤 🖓 👘 🖉	HDD Detault Face Stamp	
No. Internal model	Capacity	Free	Health	No.	Health Check		Ith
01 WDC WD3200AVVS-6	319 GB	24.8 GB	Check	01		HDD1 WDC WD10EURX-03F	ack
HDD Clear Progress	0	1%		HDD.C		999549	
HDD Full Overwrite ORec	Stop A	uto Deletion 0	Day 🖨	HDD		3092 HOUR	•
				l	Bed Sector	0 % (0 / 140) Close	
Default		Save	Cancel	Default	-	Save	Cancel

If system resources are occupied with task, such as making a network connection or performing video playback during the format process, the format may fail. If the format fails, reboot the system resources and then try to format again.

NOTE 1) Formatting may take around 40 sec for 320GB, 1 minutes for 500GB, or 7 minutes for 2TB.
2) The system always reserves a maximum of 20GB of space in each built-in HDD to utilize the memory for archiving effectively.

4.1.5 Factory Default

With an authorized password, users can get the system back to factory default configuration.

Ö 🛈	20	O	7		S	YSTEM						
System I	nfo U	Iser	Export/In	nport	HDD	Default	Face Star	mp				
	Warning											
	Factory Default enables you to initialize the system Factory reset You will lose all (or selected) user programmed system setup.											
									_			
	Syst	tem		De	vice		Rec.	ord				
	Netw	ork			uick Set	ир			_			
(Quio	k Start	up Wizar	d			Start	Shut Dov	wn			
									Close			

NOTE Upon clicking "Start" button and entering the admin password, all the configuration values made by the user will be deleted. The system setting will be sent to factory defaults. The recorded video data will not be erased.

4.1.6 Face Stamp Set-up

The Facestmap is an exclusive Digital Watchdog feature used for employee and time amangement. It is compatible only with Digital Watchdog's VMAX960H series.

If you have purchased the Facestamp hardware, follow the instructions below on setting up the Facestamp on the DVR. Consult the Facestamp's QSG for additional installation information.

- 1. Connect the FACESTAMP hardware to the DVR using an RS-485 cable. Connect the cable to the DVR's KEYBOARD RS-485 port. See 2.2 Rear Panel for more information.
- 2. Go to System Setup→ System Info sub-menu
- 3. Select 'FACESTAMP' in the Keyboard options from the drop-down menu.
- 4. Adjust the Baudrate to 115200
- 5. Adjust the Keyboard ID to 252 or 250.

24	9 9 4			YSTEM		
System Info	User	Export/Import	HDD	Default	Face Stamp	.
	Date/Tin	01124120107	AM 02:2	23:40	đ	
HDMI	Languag	the second second				
	Remote	D 1	8		Upgrade	
	ideo Sign				Opgrade	
		s 192.168.0.10 s 3c:04:bf:ff:00				
ĸ	eyboard	ID 1				
	Keyboar	DWKB-100 HI_SHARP TBT		Baudi	Screen Save	_
Default	Help	FACE STAM		-	Save	Canc

4.1.7 Face Stamp User Registration

Listed users can be monitored as Faces Stamp events through VMAX960H & VMAX960H Flex when listed users check in and out Face Stamp.

To add, delete, or modifty Facestamp users, go to the DVR's System Settings, Facestamp sub-menu.

- 1. Select the channel to which the Facestamp access panel is connected.
- 2. To add a user, press the add button.
- 3. Enter a USER ID. This will be the ID e ach user will have to enter in the Face Stamp Access Panel to identify themselves.
- 4. Enter USER NAME. This name will appear as the access panel recognizes the user's ID when entered correctly.

5. To modify or delete a user, check the box next to the user's name and press 'modify' to adjust the user's name, or 'delete' to remove the user all together.



stem Info	User E	xport/import	HDD Default	Face Stamp
ace Stamp	Channel	CH 01 🖃		
NO.	User N	011	User ID	Register
01	KIG	CH 01	9865	2013-01-24 02:20:04
02		CH 02		
03		CH 04		
04		CH 05		
05		CH 06		
06		CH 07 🗨		
07				
08				
09				
10				
Delete		H . 01/	10 🖉 🕨	Add

4.1.8 Face Stamp Schedule

Go to the Schedule Setup menu to assign the Facestamp channel a recording schedule. After selecting the Face Stamp channel, user schedule this with Face Stamp profile. See section 4.3 Record for more information on setting up a recording schedule.

	24			3)4	ý							-	OF				1.414-3						
Record	I Se	tup		Par	nic I	Rec	ore	1	Liv	e S	itre	am	1	Sch	ned	ule	L	Ho	lid	ay				
Ch. All 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 Continuous Motion Sensor Off C + M C + S M + S C + M+S Face Stamp																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUN																								
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
Hol																								
Defa	ult															C	S	ave	,			Ca	nce	1

4.1.9 Face Stamp Search

Whenever users check in our out using the Face Stamp access panel, the check in or out will be recorded as an event, and a picture of the user will be stored in the DVR. Managers then can search and review their employee's time and attendance.

To perform a local search on the DVR for all Facestamp events follow these steps:

1. In live mode, right-click anywhere on the sreecn and select Search \rightarrow Face Stamp.

2. Facestamp search window will appear. Select the day you want to search from the calendar. Days with recorded data will be highlighted in the calendar.

3. Select to view all events markeed as Check-in, check out, or both.

4. Press the 'Search' button.

5. Press the button next to an event to view three (3) seconds of video associated with the selected event.

6. Press 'Check Test' to check a user out. Enter the user's ID number and press OK. They will appear as checked in the system.

7. you can export the event search result for your records. Connect a USB to the DVR, press scan and allow the system to find the USB device. Select Export to save the data in table format.



For more advance searching and playback options see the Facestamp software.

4.2 Device

There are Seven sub menus in the Device menu, such as Camera, Audio, Sensor, Motion Alarm, Extra Alarm, and PTZ.

Users can easily move to the "Device" menu by selecting the icon on the top right of the menu screen.

						X
ſ		DEVICE				
		Camera				
		Audio			2.0	
		Sensor		EO RECOR	DER	
		Motion Alarm				
		Extra Alarm				
		PTZ				
51	/STEM		RECORD	NETWORK	BACKUP	Q.SETUP
-	0	•	24			

4.2.1 Camera

Users can setup camera title, covert, brightness, contrast, motion sensitivity, and audio mapping for each camera.

"Covert," also called "hidden camera" feature, hides camera display and playback as if there were no camera recording.

Users can apply this covert function not only to Live view, but also to Playback view.

The default motion area setup is the entire camera area.

🏩 💽 🗾 🕥 🌏 🤪 🗲	DEVICE	
Camera Audio Sensor Motio	n Alarm 🛛 Extra Alarm	PTZ
Channel 01 02 03 04 05 0	6 07 08 09 10 11	12 13 14 15 16
Motion Area Setup		
	Title CAM	1 🖉
	Covert All	
		e 🗌 Playback
	Brightness 128	
	Contrast 128	
	Color 128	
	Sensitivity Norm	ai 💌
	Audio Manalan .	
	Audio Mapping Audio	o 1 🔳
Copy Setting		
Default Help	Sav	e Cancel

See section 3.3.2 Automatic 5x Signal Extender (Built-in 4CH) for more information.

4.2.2 Audio

Users can select the audio input and output during live display and match the audio input to a designated channel. (Please refer to Section 4.3.1 Camera Record). Adjust the audio volume using the volume control panel, enable or disable audio recording for each channel, and enable or disable audio during live video.

In addition, users can listen to the audio for both live display and playback mode through the network using Advanced Client Software (ACS), Central Management System (CMS), and/or Internet Explorer web browser.

I have described (inc)	Oniett	Live Audio (aut)	Oniett
Live Audio (in) Audio 01	On/off Off	Live Audio (out)	On/off Off
		Audio	01 1
Audio 02	Off 💌		
Audio 03	Off 🖃		
Audio 04	Off 🖃		
Audio 05	The		
Audio 06	ett 🖃		
Audio 07	Off 🖃		
Audio 08	Off 🖃		
de la comp			
Volume			

4.2.3 Sensor

<u>)</u>	20		7		DE	VICE				
Cam	iera Ai	udio S	ensor	Motic	on Alarm	Ex	tra Alarm	РТ	z	
No.	Туре	Cam	Notify	/	Prese	t	Relay		Dwell Tir	ne
1	N.O 💌	01 💌	Off	-	1		Off		5 Sec	-
2	N.O 💌	02 💌	Off	-	1	-	Off		5 Sec	-
3	N.O 💌	03 💌	Off		1		Off		5 Sec	
4	N.O 💌	04 💌	Off	-	1		Off		5 Sec	-
5	N.O 💌	05 💌	Off	-	1		off	-	5 Sec	-
6	N.O 💌	06 💌	Off		1		Off		5 Sec	-
7	N.O 💌	07 💌	Off		1		Off		5 Sec	
8	N.O 💌	08 💌	Off	-	1	-	Off		5 Sec	-
C	opy Settin	g	Ch1 -	Ch8	Ch9 -	Ch1	6			
Det	fault	Help					Sa	ve	Can	cel

- Type- OFF, N/O (Normal Open), N/C (Normal Close) The Sensor.
- **Cam-** Select the associated camera.
- Notify- Users can select how to be alerted when a sensor is activated or motion is triggered by pressing the "NOTIFY" button. The system can generate a buzzer sound and/or make a pop-up screen for the camera in alarm.

CAUTION Relay contact can handle up to 24VDC/1A(or 125VAC/0.5A) of other devices. If connected to a circuit that is over 24VDC/1A(or 125VAC/0.5A), the system may experience problems.

- **Preset-** User can select the camera to move to a preset position, once the sensor is triggered. (User should setup preset position in PTZ menu 4.2.6 in advance). In addition, users can set multi-preset with a single PTZ camera. Therefore, users can cover a multi-preset zone with a single PTZ camera.
- Relay- 1~2/Off Relay Output.
- **Dwell Time-** Set the recording period from the start of sensor input activation. During this period, the corresponding camera video will record according to the frame and alarm (relay) output set. The recording stops and alarm output is turned off when the dwell time has elapsed.
- Copy Setting- Upon pressing Copy Settings button, Copy Settings popup will appear. In this popup, choose the sensor the user wants to copy from at the "From" field. Choose the parameters such as Type, Cam, Notify, Preset, Relay, and Dwell Time on the check box. Check on the checkbox next to the sensor numbers to apply the copy setting(s) to another channel on the "To" box.

Came	22 🔍 🌏 🤹		Alarm Extra Alarm BTZ	
No.	Copy Setting	From CH 01	•	me
2	Properties			
3	√туре	Cam	Notify	
4	Preset	Relay	✓ Dwell Time	
6	То			
7	01 202	▼ 03 ▼ 04	V05 V06 V07 V08	
	▼ 09 ▼ 10	✓11 ✓12	✓13 ✓14 ✓15 ✓16	
			OK Cancel	
Defa	ult		Save	Cancel

- **NOTE** "Sensor" here means the alarm connected to the DVR, which is triggered by physical sensor input.
- **NOTE** If the sensor does not operate properly check the setting of the sensor type (N/O or N/C). The alarm might not function if the actual connecting sensor type and the sensor type in the system setting are inconsistent.
- **NOTE** "Camera pop-up" means that multi-screen live video mode will be switched automatically to single channel mode, when an alarm is triggered. This single channel video will be the channel triggered by alarm.

4.2.4 Motion Alarm

Select Motion alarm to record only when motion detection is triggered by DVR S/W upon user's defined motion area.

An alarm signal is sent via the selected sensor-out channel.

ch.	C Use	Notity		Relay	Dwell Tim	•
1	🗸 Use	011		017	5 Sec	
2	Vuse V	off		Off	5 Sec	
3	V Use	off		off	5 Sec	
4	🗹 Use	Off		Off	5 Sec	
5	V Use	Off		Off	5 Sec	
6	V Use	Off	-	Off	5 Sec	
7	✓ Use	Off		017	5 Sec	
8	Use Use	011		Off	5 Sec	

amer	a Audio	Sensor	Motio	n Alarm	Extr	a Alarm	PTZ	
	Copy Setting							
2h.		From	CH 01					
2	Properties	6	✓]AII					
3 4	✓ Use ✓ Dwell Tin	6	Notify		Y	Relay		
5	то			4				
7 8	01 0 09 1	2 03 0 11	04 12	05 13	06 14	07 15	08	
Ge					ок		Cancel	
Defau							ive	Cancel

COPY SETTINGS

Upon pressing Copy Settings button, Copy Settings popup will appear. In this popup, choose the camera the user wants to copy from at the "From" field. Choose the parameters such as Use, Notify, Relay, and Dwell Time on the check box. Check on the checkbox next to the sensor numbers to apply the copy setting(s) to another channel on the "To" box.

NOTE "Motion Alarm" here means alarm triggered by motion detection set by motion menu of DVR.

4.2.5 Extra Alarm

S.M.A.R.T. alarm is an alarm signal triggered when the HDD is about to be out of operation.

This alarm is created by the HDD and captured by DVR. If the HDD does not create this alarm, then the DVR also cannot capture and output this signal.

				-			_
Ala	rm	Relay		Dwell Time	9	Notificati	on
HDD SMART		Off		5 Sec		Off	-
Video Loss		Off		5 Sec	-	off	
Recording Fa	ilure	Off		1 Sec	-	Off	-
Fan Failure		0#		1 Sec		011	
Alarm	Usage	Relay	_	Dwell Time		Notificati	on
Disk Full	100 % 💌	Off	-	5 Sec	-	ITO	-

Users also set the percentage for HDD Usage. For example, when Usage is 50%, DVR will notify by a camera popup or a beep sound when HDD is 50% full.

4.2.6 PTZ

Full control of PTZ camera is available in this menu.

For details, please refer to Section 3.3 PTZ Operation.

🎯 📭 🔁 🕥	I I I I I I I I I I I I I I I I I I I 	DEV	/ICE		
Camera Aud	io Sensor Mo	tion Alarm	Extra Alar	m PTZ	
CH 01				Ze	oom 🖃 🛨
		* + *	1	Fo	cus 🗕 🛨
A 500 P		+ + +	1		Iris 🖃 🛨
	TAXABLE INCOMENTATION AND INCOMENTATION	* + *	1	Pan	
			, , , , , , , , , , , , , , , , , , , ,		
			-	0	5 10
		Preset	B	Set	Move
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	And the second		Aux	Auto Pan	Tour
		Gu	ard Tour	Set	Move
Protocol	None	•	Address	1	
Baudrate	9600 BPS				Set
Copy Setting	None				
Default				Save	Cancel

Protocol

Select the proper protocol of the connected PTZ camera.

Address

Set the PTZ driver address of the connected camera.

Check the below items for proper P/T/Z operation.

- 1. Check if the protocol of the connected PTZ camera is correct.
- 2. Check if the communication settings, including the baud rate, of the connected PTZ camera are in accordance with the assigned value for that P/T/Z protocol.
- 3. Check if the address of the connected PTZ camera is correct.
- 4. Check if the wiring to the P/T/Z controllers are correct.

PROCEDURE How to setup PTZ camera with Pelco-D protocol (example)

- 1) Make sure the serial communication with the PTZ camera is through RS-485 port.
- 2) Select "Pelco-D" at the protocol list, and set the address.
- 3) Select Baud Rate to be the same as the PTZ camera
- 4) Click the "Save" button to confirm this configuration.

Preset

The system supports the number of preset from 1 to 255.

Baudrate

User can select the baud rate level from 1,200bps up to 115,200bps.

NOTE <u>Auto Pan, Aux & Guard Tour</u>- These options allow the DVR to command a PTZ camera to move to a specific position, or run a pattern. These special settings may require a lot of processing capacity and memory from the DVR. To maintain the health of your DVR, it is recommended to setup all presets, patterns, or scans directly from the PTZ camera itself.

4.3 Record

Users can configure various record settings such as Continuous, Event, and Panic for each individual camera channel in the Record Setup Menu. Network Stream settings are independently configured from the Record settings in this menu as well. Therefore, the user can optimize the bandwidth used by configuring the resolution, FPS, and image guality separately.



4.3.1 Record Setup

- 1. Locate RECORD icon from the main menu.
- 2. On the Record window Click on Record Setup tab.
- 3. Choose the desired resolution, frame rate, quality and recording type for continuous recording.
- 4. Choose the desired resolution, frame rate, quality and recording type for Event recording.
- 5. Configured each channel separately, or use the copy settings button to apply one channel's settings to multiple channels.

tec	ord Setup	Panic	Record Li	ve Stream	Sche	dule Holic	lay	
Ch	Resolution	Col	ntinuous	Resolution		Event	Pre-	Post
	Resolution	FPS	Quality	rees or an or	FPS	Quality	Alarm	Alarm
1	960*576	25	Highest 🗷	960*576	25	Highest 🔄	0 💽	0 💌
2	960*576	25	Highest 🗷	960*576	25 -	Highest 🔄	0 🖃	0 💌
3	960*576	25 -	Highest 💌	960*576	25	Highest 🔄	0 -	0 📼
4	960*576-	25 -	Highest 💌	960*576	25 -	Highest 🔄	0 💌	0 🔻
5	960*576	25	Highest 💌	960*576	25	Highest 🔄	0 💽	0 💌
6	960*576	25 -	Highest 💌	960*576	25-	Highest 🔄	0 -	0 📼
7	960*576	25	Highest 🗷	960*576	25	Highest 💌	0 💌	0 💌
8	960*576	25	Highest 💌	960*576	25	Highest 🔄	0	0 💌
c	Copy Setting		h1 - Ch8	Ch9 - Ch16				

NOTE COPY SETTINGS- Copy Settings popup allows you to choose the camera you want to copy from in the "FROM" field. Choose which settings you want to copy, such as Resolution, FPS, Quality, Event Resolution, Event FPS, Event Quality, PreAlarm and PostAlarm. Check the checkbox next to the cameras to apply the copy setting(s) to another channel on the "To" box. channel on the "To" box.

49 | H.264 Digital Video Recorder

Users can also configure the Network Stream settings independently from the Record settings under the "Live Stream" tab as shown below.

ch.	VUse	Resolution		FPS	_	Quality	 Audio	_
1	VUse	960*576		12		Normal	Off	
2	VUse	960*576		12	•	Normal	Off	
3	✓Use	960*576		12	•	Normal	off	•
4	Use	960*576		12		Normal	Off	
5	VUse	960*576		12		Normal	Off	-
6	VUse	960*576		12		Normal	Off	-
7	Use	960*576	-	12	-	Normal	Off	-
8	Use	960*576		12	-	Normal	Off	-
	Copy Setting	Ch1 - Ch8		Ch9 - Cł	16)		

The Live Stream menu enables users to optimize data transmitted over the network by configuring the Resolution, FPS, and Quality without affecting the Record settings.

For example, users can configure 960H (960x480) resolution, 15 FPS with Normal quality for Live Stream(for Network) and configure 960H (960x480), 30 FPS with Highest quality for record.

Users also have the option to configure Panic Record settings. The Panic Record setting is intended to be used under emergency situations. You engage Panic recording by pressing the "Instant Record" button on the frontal keypad, or clicking

the **w** icon from the control panel in live mode. It is highly recommended to use the maximum resolution, FPS, and quality for this record type.

Ch.	⊠ Use	Resolutio		FPS	_	Quality	
1	Use	960*576		25		Highest	-
2	Use Use	960*576		25		Highest	-
3	Use Use	960*576		25	•	Highest	-
4	🕑 Use	960*576	-	25	-	Highest	-
5	🗹 Use	960*576		25		Highest	-
6	Use Use	960*576		25	-	Highest	-
7	🗹 Use	960*576		25		Highest	-
8	🕑 Use	960*576		25	•	Highest	-
С	opy Settin	g Ch1 - Ch8	Ch9 - (ch16			

4.3.2 Schedule

You can set up the record schedule by applying a various record modes to each date and time. Simply select a record mode by mouse and drag it to the desired date and time.

\$	24			2		ø						F	REC	OF	Ð									
Record	l Se	tup		Par	nic	Rec	ore	1	Liv	re S	ire	am		Sch	ned	ule		Ho	lida	ay				
Ch. A	Ch. All 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 Continuous Motion C + M C + S Face Stamp All 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23																							
All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUN																								
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
Hol																								
Defau	alt			н	elp)										S	ave	,			Ca	nce	_

4.3.3 Holiday

Users can setup a specific day of a month or day of week as a holiday as shown below. Once holiday is selected, the recording setup for those holidays will be affected by the schedule setting in the schedule.

20			RE	CORD			🎯 💷 🔁 🕥 🊱 🧊 🧰 RECORD	_
Record Set	up Panic R	ecord Li	ve Stream	Schedule	Holiday		Record Setup Panic Record Live Stream Schedule Holiday	
			JUN				JUN	
SUN	MON	TUE	WED	THU	FRI	SAT	SUN Delete All SAT	
-				-	1	2	2	
3	4	5	6	7	8	9	3 Are you sure? 9	
10	11	12	13	14	15	16	10 Year 16	
17	18	19	20	21	22	23	17 Month 23	
24	25	26	27	28	29	30	24 30	
	-		_				OK Cancel	
Delete	Delete All Select day of week Sunday Delete All Select day of week Sunday							
Default	Help				Save	Cancel	Default Help Save Can	cel

4.4 Network

4.4.1 Network

The system has built-in web server.

ETHERNET

- DVR network system

- ETHERNET LAN port

Network Type

Select network connect type. Select either LAN for fixed (Static) IP or DHCP for dynamic IP. If DHCP is selected, click 'IP DETECT' button to detect IP address information.

Subnet Mask

Subnet Mask address classifies the subnet that the system belongs to. Standard address is 255.255.255.0. For more information, please consult your network administrator or your internet service provider

Gateway

This is the IP address of the network router or gateway server. It is required when the user wants to connect through the external router from the remote. For more information, please consult your network administrator or your internet provider

🎱 🕒 🔁 🚫 🍫 🥩	NETWORK	
Network DDNS Notifi	cation	
NetworkType	Static IP 🔄 🔄	IP Detect
IP Detect Progress	0	
IP Address	192.168.1.160	B
Subnet Mask	255.255.255.0	æ
Gateway	192.168.1.1	B
DNS Server 1	0.0.0.0	P
DNS Server 2	0.0.0.0	B
TCP/IP/Mobile Port	9010	P
Web Port	80	P
Bandwidth Limit	100 Mbps	
	Use UPNP	
	Auto Private IP Setup (NAT Trav	/ersal)
Default Help		Save Cancel

DNS Server

Enter the IP address of the Domain Name Server. There are two DNS settings. (The preferred DNS and the alternative DNS) *You should enter the DNS Server information in order to use internet. (Provided by your ISP)

TCP/IP/Mobile Port

Enter the port number to use when connecting locally or remotely, or to mobile phones.

Web Port

Enter the port number to use when connecting from the Web Browser.

NOTE TCP/IP Port, Mobile Port, and Web Port should be a different number from each other.

UPnP (Universal Plug and Play) and Auto Private IP Setup (NAT Traversal)

UPnP stands for Universal Plug and Play, which is a relatively new technology that indicates a universal protocol for widespread plug-and-play devices to ease the network implementation. When a PC and a DVR both installed the UPnP function, the PC can automatically recognize the DVR in the same local area network. The advantage of this function is that a PC can connect to the DVR directly by clicking on the icon representing the DVR in <My Network Places> folder as shown below. The first five characters of the file name of a detected DVR is subject to a firmware version



Simply double click on the desired icon. Then, it will open an internet browser that connects to the DVR via the remote control software as shown below. Please type in your User ID and Password to login and click 'Connect' button to connect.

🖉 web Loga	· Windows Interset Explorer			
00.	🖉) Mar (192, 168,0-198) og -bir/danige/b	loot reputpent book	🕒 🗠 🗷 📴 📖	P -
🚖 Favoritas	🐔 Vidb Login		💁 • 🔝 · 🖂 👼 • Bage • Sefer	r = Tgole = 😥 = 🍟
				2
		MAX Web Viewer		
		WEB LOGBI		
		User D		
		busece?		
		-OF G Loge	J	
		For Secarity reasons only authorized users web server.	are allowed to access to the	
		und server.		
			~	



Auto Private IP Setup (NAT Traversal)

The UPnP NAT Traversal function will help to automatically setup a router if the DVR connects to the internet via a router.

When a PC connects to a DVR, which is not in the same local area network, a real IPO address and corresponding port number is required. However if the DVR is behind a router, the communication between the PC and the DVR will be transmitted back and forth by the router. The router will need to setup port mapping (Port Forwarding) before images from the DVR is remotely viewed on the PC. For each individual DVR, the setting needs to be done individually.

If the DVR has UPnP NAT traversal function, the setting of the router will be done automatically when it is enabled.

Just check 'Auto IP (NAT Traversal)' check box in the UPnP setup menu. Then it will take care of Auto IP detect by itself.

NOTE The system transfers video images at real-time over the network even during no record. For example, user can monitor live video even when motion has not occurred during motion detection mode.

NOTE If there is no physical network connection, it may take a few minutes for the system to start working, since the network configuration in DHCP mode and the DHCP connection cannot be made.

4.4.2 DDNS

The User has to mark the "Use DDNS" check box to use it.

DDNS Server

dwddns.net or dwddns2.net is the fixed domain name of DDNS server.

User cannot change the DDNS name.

🎱 🗶 🔁 🚫 🏈 🥩	NETWORK		
Network DDNS Notif	ication		
	Use DDNS		
DDNS Server	dwddns2.net		2
Web Port	80		-
DVR Name		d	2
User		0	2
Password		D	2
Check	Start		
Default Help		Save	Cancel

NOTE The standard DDNS domain name is dwddns2.net, and users can use dwddns.net or dyndns.com by drop-down list.

4.4.3 Notification

Remote Notify

The system can notify an alarm message to the IP address of Advanced Client Software over the network.

User can choose from a selection of different kinds of alarms by pressing "ADD." Alarms can be generated by Sensor, Motion Detection, Disk Full, Admin PW Changed, Video Loss, and Power On/Off. If you click box of Face Stamp to get notification.

Network DDNS Notification	NETWORK	Noty		
Remote Notify	Text / E-mail Notify	E-mail Test	Remote Notity Add/Edit	est
IP Address	Edit E-mail Cath - Cath - Cath - Cath - Cath - Cath -	Edit	IP Address Port 6081 Events All Sensor System S Motion Detection Log in/Or	
Detete DVR Name DVR1 SMTP Server smtp.Mailser User From user@mailse	interval None		Admin PW Changed S.M.A.R.'	

E-Mail Notify

The system can send notification to an Email address or Advanced Client Software and the Central Management System over the network. User can choose from a selection of different kinds of alarms by pressing "ADD." Alarms can be generated by Sensor, Motion Detection, Disk Full, Admin PW Changed, Video Loss, Power On/Off, and FaceStamp. By clicking "Use TLS", users can use a public email address such as Yahoo, Google, Hotmail accounts. Type DVR name in the "DVR Name" box. The DVR name will appear in the email so that users can recognize which DVR sent an email.

🥥 🕕 🔁 🔘	🥑 🦪 🧲		NET	WORK				
Network DDNS	Notification	۱						
Remote Notify	Remote Notify Text / E-mail Notify E-mail Test							
D IP Ac	idress	Edit		E-ma	ail	Edit		
192.16	8.0.111	Edit		ddd@dd	d.com	Edit		
		Edit				Edit		
		Edit				Edit		
		Edit				Edit		
		Edit				Edit		
Delete		Add	Del	lete		Add		
DVR Name	DVR1		Ø	Port	25	Ø		
SMTP Server	smtp.Mailser	ver.com	œ	Password	1	B		
User			P	Interval	None			
From	user@mailse	rver.com	P	Use TLS	JPEG	Image		
Default	Help			S	ave	Cancel		

NOTE Configuration's first priority is always given to "Schedule Setup " of the "RECORD" menu. Thus, the system will not send alarm message or email notification upon motion alarm or sensor even though user marks the checkbox of above event selection, unless user sets the "Schedule Setup" in the "RECORD" menu.

For example, if user sets "Continuous" only for "Schedule Setup" of the "RECORD" menu and marks the "All" checkbox in "REMOTE NOTIFY", then the system will not send alarm messages. In this case, user has to set "C + M", "MOTION", "SENSOR", "C+ S" or "C+M+ S" for REMOTE NOTIFY or E-Mail NOTIFY to function properly.

4.5 Backup

4.5.1 Backup

Users can archive a video clip recorded for a certain period on a selected channel or channels as shown below.

Connect an appropriate USB memory device, like USB thumb drive, USB HDD, or a built-in CD or DVD burner and press "SCAN" button to get the system to recognize it before archiving. Necessary file size will be shown before burning.

🎱 🕒 🔁 🕥 🚱 🥩	BACKUP
Backup	
Channel	
	V01 V02 V03 V04 V05 V06 V07 V08
	V09 V10 V11 V12 V13 V14 V15 V16
Start Time	2012/05/22 AM 09:58:22
End Time	2012/06/01 PM 03:35:29
File Size	○ MB
	Add Backup Viewer
	Calculate
Device	▼ Scan
File Name	B
Password/Confirm	
Backup Start	Start
Help	Close

NOTE Backup device shall be a well-known major brand of USB thumb drives formatted by FAT/FAT32 for proper backup.

NOTE User can easily backup video in "Quick Backup" during video playback. Refer to section 3.5 for quick backup details.

NOTE User can click the "Calculate" button to learn the backup file size before executing backup.

NOTE User can rename the backup file name before starting backup process and also put a password in the backup file for security purpose. In order to playback the file, user should input the password.

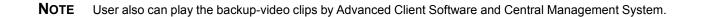
4.5.2 Backup Video Retrieve

There will be a single file after archiving, if "Auto Player" was selected.

User can double click "Player.exe" file to open the video data file (PSF format) in the folder.



User can print out, capture a still image, zoom out, or make an ASF file format, by using the icons located on top of the player window.



4.6 Quick Setup

Quick Setup helps user make simple configuration for recording resolution, entire recording speed by frame, recording mode, and recording periods.

The system will put the first priority for configuration on this quick setup and will follow this rule regardless of configurations set in other menus. Users should not fill in the checkbox of Use Quick Setup if he/she wants to utilize full system configuration defined in the other menus.

ý 🕒 🗾 🕥 🍫 👹 💶	QUICK SETUP	
Quick Setup		
	Use Quick Setup	
Input Desired Days	0	æ
Record Setting		
Record Resolution	960*576	
Record FPS	1	
Record Mode	Continuous	
Record Quality	Highest	-
Days To Record	0.00 DAYS(4 FPS/CH)	
Live Stream Setting		
Network Resolution	960*576	-
Network FPS	6	
Network Quality	Highest	-
	Audio	
Default Help	Save	Cancel

NOTE Quick setup must be deactivated if the user requires configuration from the other menus.

NOTE After the user marks "Use Quick Setup" to define settings, the system will ignore all other configurations set by full menus.

5 WEB SURVEILLANCE

The VMAX960H DVR has a built-in web server.

Using an ordinary web-browser over a network, users can always stay connected to the system for live monitoring, playback, or remote configuration without installing any remote client software.

5.1 Web Login

The user is required to input the correct IP address in the web browser after making the web port available in the router. Please note, if you are connecting to the DVR from a remote network (via the internet), you must port-forward the corresponding ports in your reouter before you can access your DVR.

For more information, see the Appendix section, and consult your Installer or Internet Service Provider.

After allowing the download of the Active-X file (see page 58 for more information), users can find the login page view seen below. Default USER ID is "admin" and No password.

Web Logi	a - Windows Internet Explore	1	
-90	🖉 http://192.168.0.358/cpi-bin/8	esignyhtml_template/Login.html	8 4 × 3 0mg P
Favorites	🔏 Web Logn		🎒 * 🔯 · 🖾 🖶 * Baga + Safaty + Tgols - 🚱 -
		VIEW VIEweer	
ne			🕒 Internet 🦓 - 🔍 100% -

It is recommended to use an Internet Explorer web page.

To open the DVR's web viewer on a Google Chrome web viewer, please install the IE Tab add on option.

Then, simply enter the DVR's IP address or DDNS address in the address bar and click on the the web viewer.

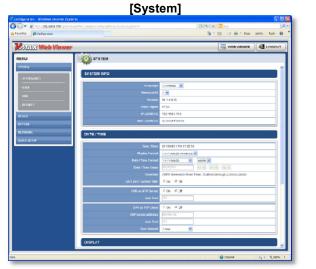
on the tool bar of

5.2 Web Configuration

Menu of Web Configuration

Main Classification	Sub Classification
	SYSTEM INFO
SYSTEM	USER
STSTEW	HDD
	DEFAULT
	CAMERA
	AUDIO
DEVICE	SENSOR
	MOTION ALARM
	EXTRA ALARM
	RECORD SETUP
RECORD	LIVE STREAM
RECORD	PANIC RECORD
	SCHEDULE
	NETWORK
NETWORK	DDNS
	NOTIFICATION
QUICK SETUP	QUICK SETUP

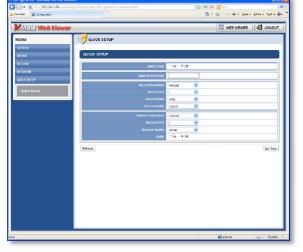
After logging in with the right ID and password, users can make various configuration changes in the Web Configuration window seen below. This Web Configuration menu is only available to the "admin" account.





User's Manual | 60

	[Record]	[Network]		
ninguran oo - Kinadowa Karoneer (Aspir D • El Inno (190, 1984) A Theory Factor 1997 B Carl Garden	elener (C)	Octogramme Vision Statuse (system ③ ● <		
Web Viewer		Wath Web Viewer		
MEAU 95150/ 95150/ 95150/ 95150/ 964519150/ 9465100/ 946519100/ 946519100/ 94651000000000000000000000000000000000000		MED/ No.000 Without Construction KC *To GK Ministry KC *To GK Ministry KC *To GK With Ministry KC *To		
	📮 Drisenset 🧳 + 🔍 200%. •			



NOTE This web CGI screen is directly supported from the built-in web server in the DVR, regardless of Internet connection.

NOTE <System Reboot> enables user to reboot the system without any changes to the setup. When the network is disconnected due to abnormal operation of the system, user can use this function and try to reconnect. However, the IP number assigned to the system may be changed due to the DHCP mode.

5.3 Web monitoring

The first time you access your DVR via the Web viewer, you will be asked to install Active-X file before monitoring live video. Please follow the installation process to complete the Active-X installation. Without it, you will not be able to view video from any of the DVR's channels.



[Web Active X Install]

User can get into web monitoring after log in as shown below. In order to connect to DVR, select the vewieing mode (Live/ Playback) and click " Connect " located at the top left corner.

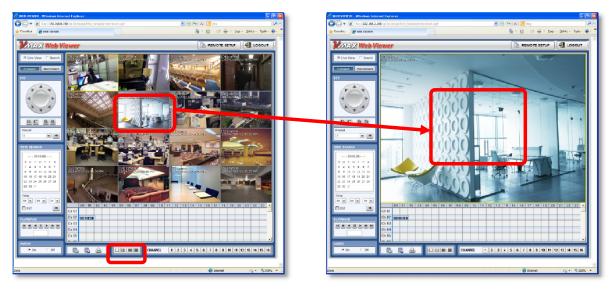




No.	Title	Function
1	Connection Mode	Select to view the DVR in Live or Playback Mode.
2	Connection Option	Select to Connect or Disconnect from the DVR.
3	PTZ	PTZ control options, including: virtual direction arrows, zoom and focus, and preset.
4	Calendar	Date & Time search.
5	Playback Controllers	First data, fast rewind speed, play rewind, pause, play, fast forward speed, last data.
6	Audio	Enable/ Disable audio.
7	Export Options	Export a still image, export a video, or print a still image with notes of a selected channel.
8	Display Options	Select single, 4-channel mode, 9- channel mode, or 16-channel mode (16-channel display will not be available on 8-channel models).
9	Channel Selection	Select manually a specific channel to go to single channel mode.
10	Time bar	In playback mode, indicates available recorded video for each channel for the 24 hours of the selected day.
11	Time indicator	Use the time indicator line to update playback video from a selected channel or multi-channels.
12	Main Display Area	View live or playback from the selected cameras.
13	Remote Setup	Will open remote setup option (See 5.2 Web Configuration). Available for admin users only.
14	Logout	Exit connection from the DVR.

63 | H.264 Digital Video Recorder

User can monitor live video in 1, 4, 9 or 16 screen modes. If user wants to see single channel in full screen, double-click on the live video screen. User can change to single mode by clicking the mode icon located at the bottom left.



NOTE The image resolution in "Live monitoring" in this web browser can be adjusted from the DVR's 'Live Stream' sub-menu under the 'Record' Setup Menu.

Rec	ord Setup	Panic Record Liv	ve Stream	Sc	hedule Holid	ay
cn.	✓Use	Resolution	FPS		Quality	Audio
1	√ Use	960'576	12		Normal 💌	011 💌
2	∀ Use	960*576	12		Normal 💌	• no
3	Use	960*576	12		Normal 📼	0#
4	Use	960*576	12		Normal 💌	off .
5	✓Use	960*576	12		Normal 💌	Off 💌
6	√ Use	960*576	12		Normal 🗷	0ff 🗵
7	∀ Use	960*576	12	•	Normal 📼	Off 💌
8	⊻Use	960'576	12		Normal 🖃	011 =
_	opy Settin	g Ch1-Ch8	Ch9 - Ch	16		

NOTE If live image is not properly shown on IE web browser due to network capabilities or low bandwidth, it is recommended to close and re-open the IE web browser.

5.4 Web Playback

Users can remotely playback the DVR images by clicking "SEARCH" button in the middle of bottom window. In order to connect to DVR, the user has to click " Connect " button which is located at the top left corner.



Playback Time

Select the date and time on Time Search, located at the middle of left side of window, and click 🛄 button.

Playback lcon

Play/Pause is toggled and playback speed is shown on the left box.

Play DST

Check this box to play overlapped images during DST (Daylight Saving Time) period.

For further details, please refer to Section 3.7 (DST Setting and Image Playback)

Intelli-Search Bar

User can move the blue vertical line to the time that user wants to search.

The colors of the time bar are different by each recording mode. Please, refer to Section 4.3.2 for details on color



Chapter 2

CMS CLIENT SOFTWARE USER MANUAL

6 CMS USER GUIDE

6.1 PC REQUIREMENT

OS	Windows XP, Vista, 7	
CPU	Pentium Dual core 1.8Ghz or higher	
VGA	1024X768, 256MB supporting DirectX	
RAM	1GB	
HDD	20MB for installation, 10GB for Remote Backup	

Recommended PC Requirement

Minimum PC Requirement

OS	Windows XP, Vista
CPU	Pentium 4, 2Ghz
VGA	1024X768, 64MB 24bit color graphic card
RAM	1GB
HDD	20MB Free Space

6.2 INSTALL

Run Central Management Software Setup.exe saved on the included CD.

When clicked, the Setup Menu will appear.

Follow the setup instructions to complete the installation.

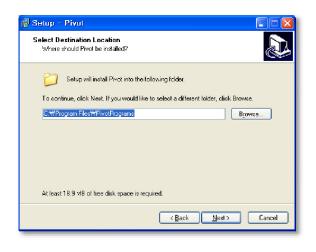


Press

Browse...

to install the program in a different directory.

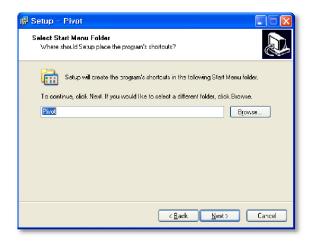
69 | H.264 Digital Video Recorder



Press

 $\underline{N}ext >$

to move to the next screen.



Press

<u>N</u>ext >

to move to the next screen.



Select what Icons and shortcuts you wish to install on your desktop.

Press

 $\underline{N}ext >$ to move to the next screen.

eady to Install Setup is now ready to begin inst	alina Pyotion your computer
Click Install to continue with the change any settings.	rinstallation, or click Black, flyou want to review or
Destination location: C:₩Program Files₩P votPr	rograme
Start Menu folder: Pivot	
Additional tasks: Additional icons:	
Pivot Create a desk.op.ic Pivot_Player Create a des RecordCalculator Create -	sktop icon.
Pivot Create a Quick Lau	nch icnn
<	>

Install to begin installation. When the installation is complete, the below message will appear.

Select whether you want to launch the software and select "finish".



6.3 UNINSTALL



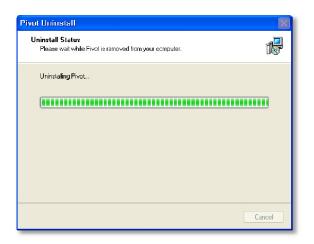
Select

To uninstall CMS, press UNINSTALL CMS from the Start Menu of your PC.



A window will appear in Windows7 or Windows Vista. Press YES to begin the process.

71 | H.264 Digital Video Recorder



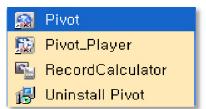
When the process is complete, the below message will appear.

Pivot Uninstall		
(į)	P vot uninstall complete, Some elements could not be removed, These can be removec manually,	
	ОК	

6.4 BASIC OPERATION



Click on the CMS icon on the Desktop or click START on Windows PC and go to the CMS Folder.

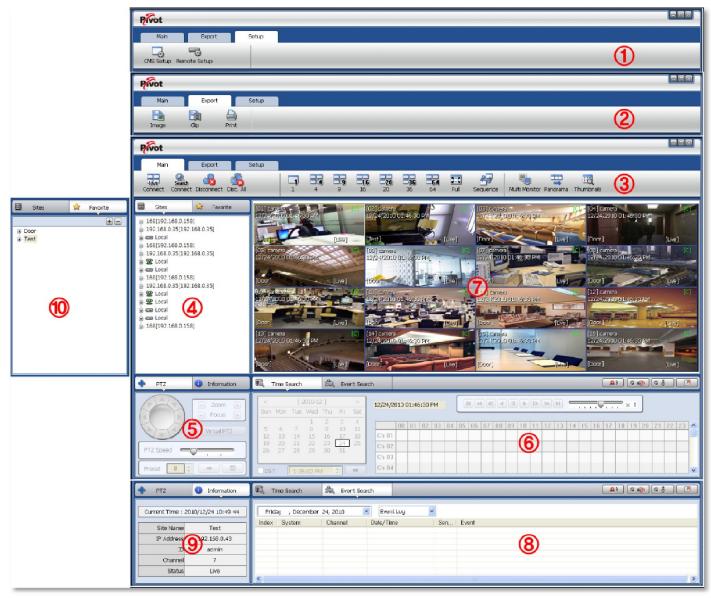


6.4.1 LOG IN

The default ID is Administrator, and there is no default password. The administrator account has the highest level of authority on the CMS.

Login	
ID Password	Administrator
Keybuard	Ok Cancel

6.4.2 SCREEN LAYOUT



73 | H.264 Digital Video Recorder

No	Item	Description
1	Main Toolbar (Setup Tab)	The Main Toolbar has three (3) selectable tabs named "Main", "Export" and "Setup". In the Setup tab, there are CMS setup and Remote setup.
2	Main Toolbar (Export Tab)	In the Export tab, users can save JPEG, AVI and Print images of selected video.
3	Main Toolbar (Main Tab)	In the Main tab, users can connect to Live and Search views, disconnect, change display mode and sequence, Panorama Search and Thumbnail Search.
4	Site List Panel	All of the registered sites in the setup tab are shown in the site list. Simply drag and drop the desired site to the display screen to connect to the site.
5	PTZ Panel	Enables users to control a PTZ camera, in Live mode.
6	Search Panel	In the Search mode, the recording information for each channel will be displayed, based on a selection of a specific date in the calendar.
7	Display Panel	This is the area where live view and search view are displayed.
8	Event Search Panel	CMS can display all the events setup on each individual DEVICE. These events will be listed in this panel. An event data can be searched by double-clicking on an event.
9	Information Panel	Shows the current time and site information of the selected channel.
10	Favorite Panel	Create favorite site for quick access to the sites frequently viewed.

6.4.3 MAIN TOOLBAR (SETUP)

	3
Privot	
Main Export Setup	
CMS Setup Remote Setup	
1 2	

No	Item	Description
1	CMS Setup	Register sites, setup user authority, and setup other CMS properties.
2	Remote Setup	Access the setup menu of the DEVICE remotely and change the settings.
3	Windows Exit	Minimize/Maximize the CMS Window or close the CMS program.

6.4.4 MAIN TOOLBAR (EXPORT)

Pivot							
Main	Export		Setup				
Image	Clip	Print					
1	2	3					

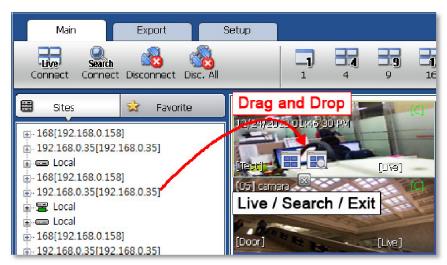
No	Item	Description
1	Image	Capture an image of the selected (focused) channel.
2	Movie	Save the selected channel in ASF format movie file.
3	Print	Print the selected channel.

6.4.5 MAIN TOOLBAR (MAIN)

Pivot																
Main Live Connect	a	Export	Setup Disc. All	1	9	16	20 20	36 35	64	5-C Full	Sequence	Multi Monitor	r Panorama	Heat Thumbnails	_	_
1	2	3	4				5			6	7	8	9	10		

No	ltem	Description
1	Live	Connect to the selected site in Live mode.
2	Search	Connect to the selected site in Search mode.
3	Disconnect	Disconnect the single channel selected.
4	Disconnect All	Disconnect all of the connected sites and channels.
5	Display Mode	Choose the display mode from single, 4 split, 9 split, 16 split, 20 split, 36 split, 64 split.
6	Full	Shows Full screen display.
7	Sequence	Sequences the different channel displays.
8	Multi Monitor	Create an additional display window.
9	Panorama	Show frame by frame display for a selected single channel in Search mode.
10	Thumbnails	Thumbnail search for a selected single channel in Search mode.

6.4.6 SITE LIST



The Site List displays all of the DEVICES that are currently setup for remote connection with the CMS application.

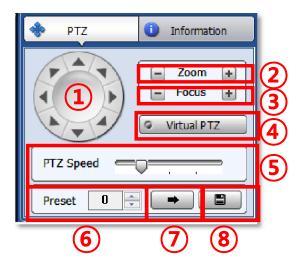
To select and view a desired camera or device, simply drag it from the site list panel onto the viewing area. Search).

Then, select the options Live or Search (

If a DEVICE site is dragged onto the viewable area, then the selected DEVICE or all cameras from the DEVICE will be displayed.

6.4.7 PTZ CONTROL

PTZ camera control is only available in Live mode.



No.	Button	Description
1	Navigation Key	8 directional arrows allow the user to move the PTZ camera. The PTZ Camera is moved when one of these arrows are pressed to the direction desired, and stops the movement if the mouse button is released.
2	Zoom	Zoom In and Zoom Out.
3	Focus	Adjust the focus of the PTZ camera.
4	Virtual PTZ	If Virtual PTZ is activated, it enables users to control the PTZ camera's movement, Zoom and Focus. PTZ can be controlled with the mouse on the channel screen directly.
5	PTZ Speed	Adjust the PTZ camera response speed. Getting Faster as moves to the right.
6	Preset	Set PTZ presets on current view.
7	•	Go to the preset location.
8		Save the preset location

6.4.8 SEARCH

The Search panel is activated only in Search Mode.

R	Time S	earch		Â	Eve	ent Sea	rch																			_	.)	6	(®)	0	2)(C]
≺ Sur	Mun	-	2010-1 Wed	-	Fri	> Sat	:2,	/24/2	2010	01:4	6:30	PM		ŀ	•					•	•	M	-		(7	хI]				
5 12 19 26	20	7 14 21 23	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18] 25		01	00	01	02	03	04	D5	06	07	08	09	10	11	12 3:46:		14	15	16	17	18	19	20	21	22	23	*
			29 5:02 Pl		- JI			03																									v

When you connect to a site in Search Mode, dates with recorded data will be highlighted in red. Select a specific date in the calendar and then the recording information will be shown in the table.

Press

(Go button) to start playback from a selected time.

If DST is enabled, the earlier one-hour overlapped video will be shown first.

Recording Modes:

-

No RecordWhiteContinuous (Yellow Color)Image: Color)Panic (Red Color)Image: Color)Alarm (Orange Color)Image: Color)Motion (Green Color)Image: Color)

Click the time or move the time bar to the time you want to playback in the search panel.

For a more detailed search as seen below, double-click the time that you want to jump.

Detailed search is available on a 6 minute basis as shown below.

R	Time 9	earch		£	, Eve	ent Sea	rch)	० 🕸] [०	1 (C	M
K Sur	. Mon		2010-1 Wed	-	Fri	> Sat	12/24/	2010-01:32:	14 PM						>	đ		
5 12 19 26	13 20	7 14 21 23	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	Ch.1 Ch.2 Ch.3	13:00 min.	13:06 min.	13:12 min.	1 3:18 min.	1 3:24 min. 13:32	0 min.	13:36 min	.) 3:42 min	.13:48 min	.) 3:54 min	
	ST	2:29	9:34 PI	м	•	•	Ch.4											~

Playback Control Panel



No.	Button	Description
1	×	Go to First.
2	×	Forward Playback : Decrease the speed / Reverse Playback : Increase the speed.
3		Step Forward.
4		Reverse Playback.
5		Pause.
6		Forward Playback.
7		Step Backward.
8	1	Forward Playback : Increase the speed / Reverse Playback : Decrease the speed.
9	M	Go to Last.

6.4.9 Audio control



(Audio On/Off): Turn On or Off the Audio channel.

Two-way Audio: Two-Audio between the CMS and DEVICE.

Bookmark: Add the selected channel to your bookmark list.

6.4.10 DISPLAY



In live mode, the text LIVE will be displayed in white, and the channel will be bordered in blue. In search mode, the text SEARCH will be displayed in red, and the channel will be bordered in red.

A selected channel will be bordered in yellow. The site name will be shown at the lower left hand corner of the screen.

6.4.11 EVENT SEARCH

CMS can receive any event data from the DEVICE as shown below.

🔍 Ті	me Search 🛛 🎪	Event Search				
Frida	ay , December 24, 2	010 🔽	Event Log 💙			
Index	System	Channel	Date/Time	5ensor	Event	^
24	192,168.0.157	1,9	2010/12/24 (14:34-03)		Matian Detection	
23	192.168.0.157	9	2010/12/24 (14:33-16)		Motion Detection	
22	192.168.0.157	1,9	2010/12/24 (14:33-10)		Motion Detection	
21	192.168.0.141:554/Vi	1	2010/12/24 (14:31 51)		Motion Detection	
20	192.168.0.141:554/Vi	1	2010/12/24 (14:31-48)		Motion Detection	
19	192.168.0.140:554/VI	1	2010/12/24 (14:32:25)		Motion Detection	
18	192.168.0.141:554/Vi		2010/12/24 (14:31-45)		Motion Detection	
17	192.168.0.141:554/Vi	1	2010/12/24 (14:31-42)		Motion Detection	~
	rearing a real state.		and the level of the second		and the second sec	
<				10		>

🔍 Time	e Search 🙇 Event Search	[e) 🔹 🔹 🔳
Friday	, December 24, 2010 🛛 👻	System Log 🗸	
No	Date/Time	Log	
14	12/24/2010 02:33:00 PM	[Search Connected] : LAB	
13	_2/24/2010 02:32:57 PM	[Live Connected] LAB	
12	12/24/2010 02:32:52 PM	[Search Connected] : LAB	=
11	12/24/2010 02:32:37 PM	[Search Connected] : LAB	
10	.2/24/2010 02:32:18 PM	Excute Option	
9	12/24/2010 02:32:16 PM	[Excute Remote Setup] : http://192.168.0.140:554/VideoInput/1/h264/1:80	
8	12/24/2010 02:32:12 PM	[Live Connected] IP2	
7	12/24/2010 02:32:09 PM	[Live Connected] IP_CAMERA	
6	12/24/2010 02:32:07 PM	[Live Connected] LAB	
5	2/24/2010 02:29:34 PM	Start CMS Program	<u> </u>

You can select a desired date to view the event list for the selected date.

You can choose either event log or system log.

Start the playback by double-clicking the Index number of each even list.

The system log will show CMS start/end, live/search, option, remote setup, image/movie export etc.

6.4.12 INFORMATION

🚸 РТZ	1 Information		٠	PTZ	i Information		
Current Time : 2010/12/24 10:43:03			Cu	rrent Time:	2010/12/24 10:44:11		
Site Name	LAB			Site Name	36		
Ip Address	192.168.0.157			Ip Address	192.168.0.36		
ID	admin			ID	admin		
Channel	8			Channel	2		
Status	Live			Status	Search		

The current date/time, site name, IP address, ID, channel and Live/Search status will be shown for a selected channel.

6.4.13 FAVORITE

Cameras currently displayed on the screen can be added, deleted and edited as a favorite site group.

Main	Export		Setup				
Live Search Connect Connect	Disconnect	Disc. All	_	1	4	9	3 1 16
😫 Sites	🚖 Favor	ite	[01] carra 12/2		H		[C]
		ŧ	Li	ve / Se	arch /	Exit	
						[Live]	
			[05] car. 12/24/20	10.01:466			8
			D	ag an	d Drop		
			[Door]	MA TO		[Live]	

Place cameras of DEVICE site into a desired channel location of the screen and then click \textcircled to create a new favorite site group. Then, you can simply place those cameras on the same channel location by drag & drop as shown below. In order to delete a favorite site, click \fbox .

6.5 CMS FUNCTIONS

6.5.1 EVENT SEARCH

When you right click on a site in the site list, a quick access menu will appear.

Select EVENT SEARCH to run Event Search.

	Event Search			 X
	System Connection Info	Index Channel	Date/Time Event	*
	IP 192.168.0.135	36 8	2010/09/01 (00:30:42) MCTION ON	
		35 1	2010/09/01 (00:30:42) MCTION ON	
	Port 9090	34 8	2010/09/01 (00:30:41) MCTION ON	
		33 1	2010/09/01 (00:30:41) MCTION ON	
- 168[192.168.0.158]	admin	32 8	2010/09/01 (00:30:30) MOTION ON	
- 192.168.0.35[192.168.0.35]	ID admin	31 1	2010/09/01 (00:30:30) MCTION ON	
		30 8	2010/09/01 (00:30:29) MCTION ON	E
Add Site	Password •	29 5	2010/09/01 (00:30:29) MCTION ON	
Edit Site		28 1	2010/09/01 (00:30:29) MCTION ON	
192.16		27 8	2010/09/01 (00:30:28) MCTION ON	
📲 Loc Live	Connect Disconnect	26 1 (5)	2010/09/01 (00:30:28) MCTION ON	
📼 Loc Search		25 8	2010/09/01 (00:21:34) MCTION ON	
		24 1	2010/09/01 (00:21:34) MCTION ON	
168[19 Disconnect	2	23 8	2010/09/01 (00:21:33) MCTION ON	
192.16 Disc, All		22 5	2010/09/01 (00:21:33) MCTION ON	
🕿 Loc Reboot		21 1	2010/09/01 (00:21:33) MCTION ON	
😤 Loc	✓ September, 2010 F	20 8	2010/09/01 (00:21:32) MCTION ON	
Event Search	Sun Mon Lue Wed Thu Fri Sat	19 1	2010/09/01 (00:21:32) MCTION ON	
Search POS	5 6 7 8 9 10 11	18 8	2010/09/01 (00:20:44) MCTION ON	
	12 13 14 15 16 17 18	17 1	2010/09/01 (00:20:44) MCTION ON	
168[19 Remote Backup	19 20 21 22 23 24 25 26 27 28 29 30 1 2	16 8	2010/09/01 (00:20:43) MCTION ON	
Firmware Upgrade	3 4 5 6 7 8 9	15 5	2010/09/01 (00:20:43) MCTION ON	
Remote Setup		CHANNEL ALL	6 EVENT ALL	•
	(44) 12:00:00 👻 ~ PM 11:59:59 🚔		(7) ^{TOP}	
Ver, 1, 0, 4, 5				

No	Item	Description
1	System Connection Info	The information of the DEVICE you are connected to will be filled out automatically.
2	Event Download Status	Right after connecting to the DEVICE, event information will be downloaded automatically. The download progress bar will be shown.
3	Calendar Search	If there is an event in the selected date, the date will be highlighted. Select a specific date to start event search.
4	Interval Setup	Set the start time and the end time to Search events.
5	Event List	When a desired date is chosen, the event list of the desired date will be shown on the list.
6	Channel/Event Filter	Event information can be sorted by a channel or event type.
7	Start/Stop Search	Start/Stop Search button.

6.5.2 REMOTE BACKUP

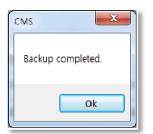
When you right click on a site in the site list, the quick access menu will appear.

Select **REMOTE BACKUP** to run Remote Backup.

System Cor	mection Info	System Recording Inf	Connecting to
P	192.168.0.35	Start 2010 - 08 - 18 / 10 : 16 : 50	Connected. A file name has been created.
Port	6688	End 2010 - 08 - 18 / 10 : 43 : 58	
D	admin	Backup Setting	0
Password		Start 2010-08-18 🖉 AM 10:23:50 🍝	
Conne	Disconnect	End 2010-08-18 🖉 AM 10:24:58 🚊	
Recording D	irectory	Channel	Backup Progress
E:₩		V1 2 3 4 5 6 7 8	
[Cpen	2) 9 10 11 12 13 14 15 16	6 Start Eackup

No	ltem	Description
1	System Connection Info	The information of the DEVICE you are connected to will be filled out automatically.
2	Recording Directory	Decide the recording directory to backup.
3	System Recording Info	Displays the start and end time of the recorded data in the system.
4	Backup Setting	Setup the start and end time of the data to backup.
5	Channel	Select the channels to backup.
6	Backup Progress	Backup Progress bar indicates the backup process status.
7	Backup Status Window	Displays the backup status in text message.

When the backup process is completed, "Backup Completed" message will appear.



6.5.3 FIRMWARE UPGRADE

When you right click on a site in the site list, the quick access menu will appear.

Select FIRMWARE UPGRADE to run Firmware Upgrade.

DEVICE		DEVICE Name/ Current Version	Connecting to
IP	192.168.0.158	Model:	Connected Upgrade file has been selected.
Port	6060	Ver:	Upgrading in progress
ID	admin	New Version To Upgrade	4
Password		Model:	
Conn	Disconnect	Ver:	6
Firmware	File Directory	Upgrade Progress	
	Open C	Start Upgrade	6

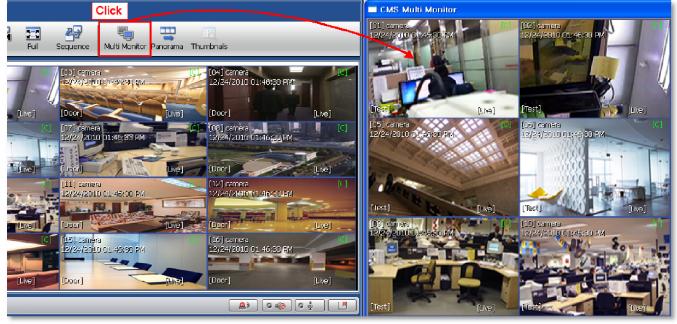
No	ltem	Description
1	DEVICE Connection Info	Input the information of DEVICE you are connected to.
2	Firmware File Directory	Select the firmware file directory to upgrade.
з	DEVICE Name/ Current Version	Displays the current DEVICE Name and Firmware Version.
4	New Version to upgrade	Displays the new DEVICE Name and Firmware Version.
5	Upgrade Progress	Start Upgrade and upgrade progress bar shows the upgrade progress status.
6	Upgrade Status Window	Displays the upgrade status in text message.

When the backup process is completed, "Backup Completed" message will appear.



6.5.4 MULTI MONITOR

Click **MULTI MONITOR** in the Main Toolbar to run the Multi Monitor function.



When you select **MULTI MONITOR**, you will see an additional window with the same split display as the main window. This setup is useful if your monitor center has more than one monitor screen.

6.5.5 PANORAMA SEARCH

Click PANORAMA in the main tool bar to run the Panorama View.

In Live mode or Search mode, the panorama view will show frame by frame display of the selected channel.

The Panorama view is available for one selected channel at a time.

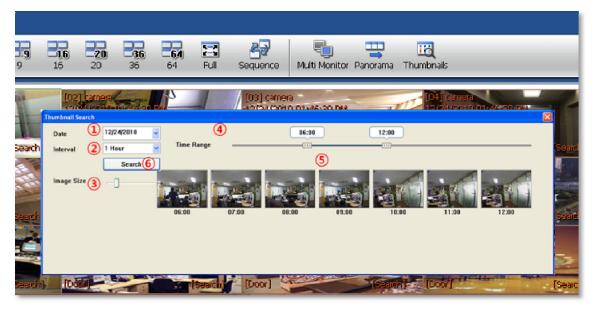


To return to normal view, click PANORAMA again.

6.5.6 THUMBNAIL SEARCH

Click THUMBNAIL in the main toolbar to run the Thumbnail Search. This feature is available only in Search mode.

First, select a channel and click **THUMBNAIL**. The Thumbnail Search Pop-up window will come up.



No	ltem	Description
1	Date	Use the Calendar to select a desired date.
2	Time Interval	Select the (time interval) to display still shots by a specified time. You may choose 1min, 3min, 5min, 10min, 30min, and 1hour (ex. 1min. means 1 still shot per 1 minute of recorded video data.)
3	Image Size	Adjust the Thumbnail Image size by using the slide bar. Moving the slide bar to the right will increase the image size, and moving it to the left will decrease image size.
4	Time Range	Select the (start time and end time) by using the slide bar.
5	Thumbnail images	Thumbnail images will be shown.
6	Search	Search button.

If you click each thumbnail image, you can search the selected data directly.

6.5.7 BOOKMARK

Click icon in the bottom right corner under the video display screen to bookmark a selected one channel search data.

Once the selected search data is bookmarked, the bookmark data is listed with an image in the bookmark list as shown below.

Search Index Name IP Cha Date/Time	
	15
2 Test 192.168.0.157 09 2010/12/24 (16:57:	λ
1 Test 192.168.0.157 01 2010/12/24 (16:40:	
	-
Remove	
Delete All	
Kename 4 III III	

Select a bookmark list and click search or double click it to search the bookmarked data.

Click REMOVE to remove a selected bookmark from the list and click DELETE ALL to delete the entire bookmark list.

Click **RENAME** to change the name of a selected bookmark.

6.5.8 VIRTUAL PTZ

If a PTZ camera is selected, click 'Virtual PTZ' to activate 'Virtual PTZ' function.

This allows users to control a PTZ camera by using the mouse controls. For example, place the mouse cursor over the PTZ channel and left-click the left, right, top or bottom of the screen to move camera left, right, up or down, respectively.

port	Setup									
Disc, All	_	1	4	9	16	20	36	6 4	Eul	Sequenc
Favorite 7]	[01] 12/27/20 *(Les/da serve)	2	3771 AM							[02]
	[03]									[04]

6.5.9 DIGITAL ZOOM IN/OUT

In Live/Search mode, digital zoom can be activated in a single full screen mode by using the mouse wheel.

Scroll up the mouse wheel, to zoom in. Scroll down the mouse wheel to zoom out on selected channel.



6.6 CMS SETUP

Options for DEVICE Registration, Network, User, Display, Event and other options.

6.6.1 REGISTRATION

Add, Modify, Import, Export or Remove DEVICE site information.

ration	Network	User	Display	Event	Misc.		
Name		IP			Port	web port	Channel
	al	192	.168.0.1	40:	9010	80	1
						80	1
	2						1
Test		192	.168.0.1	57	9010	80	1-15
^	dd		Edit	1			Remove
			Lunc	9			
Im	port	E	xport	1			
				-			
	Extern Office Office Test	External Office Office2	External 192 Office 192 Office 192 Test 192 Test 192	External 192.168.0.1 Office 192.168.0.1 Office2 192.168.0.1 Test 192.168.0.1 Add Edit Add Edit	External 192.168.0.140: Office 192.168.0.137 Office2 192.168.0.137 Test 192.168.0.137 Visit 192.168.0.137 Line Line Add Edit Import Export	External 192.168.0.140: 9013 office 192.168.0.141: 9013 office2 192.168.0.137 1852 Test 192.168.0.157 9013 Add Edit Import Export	External 192.168.0.140: 9013 E0 Office 192.168.0.141: 9013 E0 Office2 192.168.0.137 ISS2 E0 Test 192.168.0.137 9013 E0 //dd Edit

To modify and / or remove DEVICE information, click ADD or REMOVE to amend DEVICE site information.

Click Export to save the current site list and as a file. Click Import to import the file to the site list.

Ex) Adding a new DEVICE site

87 | H.264 Digital Video Recorder

Registration	X
Name	
IP Address or	2 Search 3
Port	9010 4
Web port	80 5
ID	6
Password	
Channel	8 Ex) 1-4, 1-8, 1-16
Model	DVR / NVR - 9
Aspect Ratio	Custom • 10
	—
	Ok Cancel
L	

No	ltem	Description	
1	Name	The name of the site.	
2	IP	The site's IP Address.	
3	Search	Search all DEVICE sites in the same local network. (UPnP function)	
4	Port	Port of the site. (Default: 9010)	
5	Web port	Web Port of the site. (Default: 80)	
6	ID	User ID to access the site.	
7	Password	Password to access the site.	
8	Channel	Number of channel of the site. (for example: 16ch DEVICE: 1-16 or specifically: 1,3,5,7,9)	
9	Model	Select a DEVICE or DEVICE's model name.	
10	Aspect Ratio	Select the displayed Aspect Ratio. (Custom, 1:1, 4:3, 16:9)	

Once a new DEVICE site is added, the new DEVICE information will be displayed on the site list panel as shown below.

6.6.2 ADDING IP CAMERAS

The Pivot V5.5 supports live video from leading IP Camera models and OnVIF compatible IP Cameras. To add cameras using the **ONVIF** option form the DEVICE drop-down menu:

- 1. Right-click on the Sites List and select 'Add Site'
- 2. From the Model Drop-down Options, select ONVIF Device

3. Enter the camera's IP address, or use the 'Search' button to automatically detect all ONVIF conformant cameras in your network.

Device Name	IP Address	Web	Channel	1
DWC-MD421D	192.168.100.33	8032	1	
DWC-MPA20M	192.168.100.148	8032	1	
DWC-MV421D	192.168.100.118	8032	1	=
DWC-MPA20M	192.168.100.127	8032	1	
DWC-MPA20M	192.168.100.11	8032	1	
DWC-MPA20M	192.168.100.51	8032	1	
DWC-MPA20M	192.168.100.48	8032	1	
DWC-MPA20M	192.168.100.39	8032	1	
DIALC MEADOM	103 160 100 130	0000	1	1

4. Select which camera you want to add and click ok. Review any of the network settings if necessary and click ok to add the camera.

Name	DWC MPA201	20
IP	192.168.100.	39
Profile	0	
Codec	H264	
Resolution	1920 X 1080	
Encoder Profile	H264 Baseline	
Quality	57	[25 75]
Framerate	28	[0 30 fps]
Bilrale	8908	[kbps]
GOV Length	20	[1 30]
	ok	

- 5. If you are adding a Digital Watchdog MEGApix camera manually under ONVIF:
 - a. Enter the IP address as follows: rtsp://ipaddress:554/h264 (for example: rtsp://72.243.193.200:554/h264)
 - b. Make sure the web port is 8032

Registration	8
Name	
TP Address or UR	://72.243.193.200:554/h264 Search
Port	554
Web port	8032
ID	admin
Password	
Channel	1 Ex) 1-4, 1-8, 1-16
Model	ONVIF Device Property
Aspect Ratio	Custom •
	Ok Cancel

To add cameras using the **DWC-MP** option from the DEVICE drop-down menu:

- 1. Right-click on the Sites List and select 'Add Site'
- 2. From the Model Drop-down Options, select 'DWC-MP'
- 3. Enter the camera's IP address, web port, user and password.

6.6.3 NETWORK

Enables users to setup RECONNECT and AUTO CONNECT to the network.

CMS Setup	
Registration Network Usar Display Event Misc.	. 11
Enable Auto Connect	
	l
	I
Keyboard Ok Arriv	

Enable Reconnect: When the network is unstable or disconnected, it will try to reconnect periodically. When the network gets stable again, it's reconnected.

Enable Auto Connect: When you restart the CMS program again, it will reconnect to the last sites seen before logging off.

6.6.4 USER

User authority can be changed by Administrator. "admin" is the built-in account for administrating the DEVICE and CMS program.

CMS Setup Registration Network Usa Name Administrator Live Search	" Disylay Event Misc.		ID Password	WE	
Live	Search	PTZ Radoup	☑ Live □ Kegstration	Search	🖺 PTZ 🖾 Backup
Acd Keyboard	Edt Ok	Remova		OK Cancel	

Add and change User authorities.

User authority can be changed by Administrator. Click Add button to create a new user ID and edit the user authority.

6.6.5 DISPLAY

Options for OSD setting. Users can modify what information will be displayed on the video screens.

Registration Network User Dis	by Event Nisc.	
OSD		
✓ Title	Date/ Time	
DEVICE Name	Time Format Sync	
Record Status	☑ Live/Search	
Sequence 3 sec		



Title: Turn on/off the DEVICE title and channel number.

Date/Time: Turn on/off the Date/Time of the site.

DEVICE Name: Turn on/off the name of the site.

Time Format Sync: Synchronize the DEVICE time format to CMS.

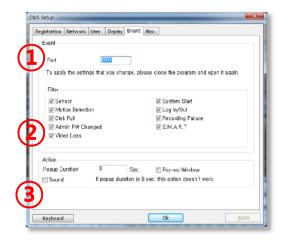
Record Status: Able to turn on/off the Record Status of the site.

Live/Search: Able to turn on/off the Live/Search of the site.

Sequence: Able to set Sequence interval.

6.6.6 EVENT

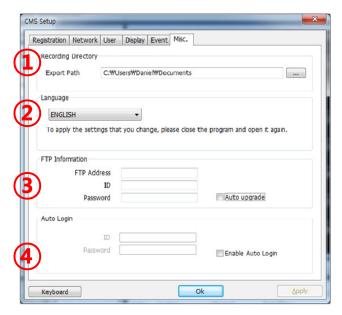
Setup the event port, event type, and popup settings for an event.



No	Item	Description
1	Port	Input same event port from the DEVICE setting to receive event notification from the DEVICE.
2	Filter	Select the type of event to receive.
3	Action	Setup the popup duration and enable beep sound.

6.6.7 MISC.

Setup the Recording Directory, Language, Auto Upgrade, and Auto Login.



No	ltem	Description
1	Recording Directory	Decide the recording directory to save images.
2	Language	Select a desired language.
3	FTP Information	In order to have Auto Upgrade, input FTP information. Once the FTP setup is done, CMS will detect the latest firmware is in the FTP and start upgrading automatically.
4	Auto Login	If you enable the auto login after inputting ID and Password, next time you login, you don't need to type in the ID and Password again.



Chapter 3

ACS CLIENT SOFTWARE USER MANUAL

7 ACS USER GUIDE

7.1 System Requirement

Recommended System Requirement

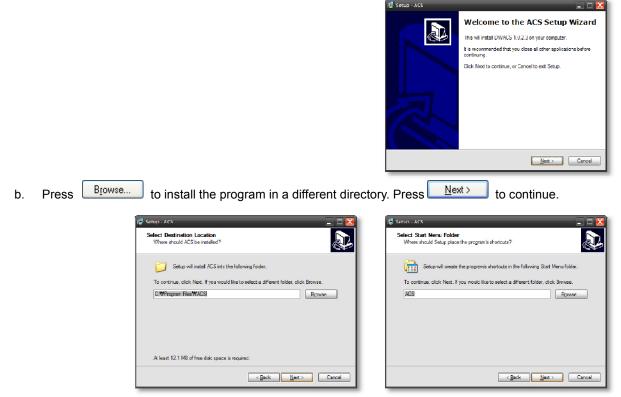
OS	WindowXP, Vista
CPU	Pentium 4, 2Ghz
VGA	1024*768, 64MB 24bit color graphic card
RAM	1GB
HDD	20MB Free space

Minimum System Requirement.

OS	WindowXP, Vista
CPU	Intel Core i5 cpu 2.80GHz
VGA	ATI Radeon HD 512
RAM	4GB
HDD	20MB Free space

7.2 Install

a. Run Advanced Client SoftwareSetup.exe on the included CD. Follow the setup wizard to complete the installation.



95 | H.264 Digital Video Recorder

c. Select what Icons and shortcuts you wish to install on your desktop. Press Lext> to move to the next screen



d. Select Installation is complete, the below message will appear.

Select whether you want to launch the software and select "finish".



7.3 Uninstall

To uninstall ACS, press UNINSTALL ACS from the Start Menu of your PC.



A window will appear in Windows7 or Windows Vista. Press YES to begin the process.

	A CS Uninstall	X
	Uninistall Status Please wait while ACS is removed from your computer.	18
	Uninstalling ACS	
ACS Uninstal		
Are you sure you want to completely remove ACS and all of its components?		
Uk		Cancel

When the process is complete, the below message will appear.



7.4 Basic Operation



Click on the ACS icon on the Desktop ACS, or click START on Windows PC and go to the ACS Folder.



7.4.1 Log In

The default ID is Administrator, and there is no default password. The administrator account has the highest level of authority on the ACS.

Login		×
ю М	ministrator	
Password		
	Bave	
Keyboard	Ok	CanLel

7.4.2 Screen Layout

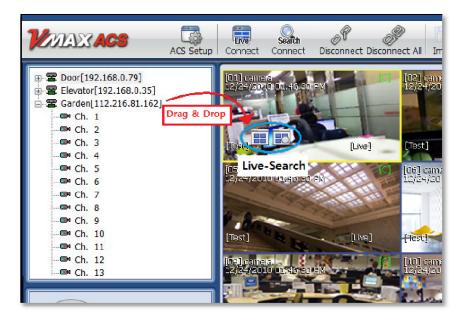


No.	Item	Description
1	Toolbar	ACS Setting, Live, Search, Disconnect, Image/ Video Export, Screen Mode, Remote Setup
2	Site List Panel	DVR Sites List
3	PTZ Panel	PTZ Camera Control (Live Mode Only)
4	Calendar Panel	Calendar Search
5	Search Panel	Displays recorded data for the selected date, controls playback speed, and audio
6	Display Panel	Displays live and playback image from single and multiple camers as setup by the user
7	Infrmation Panel	Shows the current time and site information of the selected channel
8	Event List Panel	Event list update

1.4	4.3 I	001	Sar											
1	2	3	4	5	6	7	8		9		10	11	12	13
ACS Setup	Connect	Search Connect	Disconnect D	isconnect All	Image	Movie	Print	-	4	 16	Full	Time/Event	Remote Setup	

No.	lcons	Description
1	ACS Setup	Option setup for Advanced Client Software
2	Live	Connect to a DVR in Live mode
3	Search	Connect to DVR in Playback mode
4	Disconnect	Disconnect from a selected channel
5	Disconnect All	Disconnect from all channels in the display area
6	Image	Export a selected image. Default file type is JPEG, saves to "My Documents" by default
7	Movie	Save a selected video in .asf format, saves to "My Documents" by default
8	Print	Print still image of single channel
9	Split	Single channel, 4-split channel, 9-split channel, 16-split channel
10	Full	Full screen mode
11	Time/Event	Switch between displaying the Search panel & Event list panel
12	Remote Setup	Configure settings of DVR remotely (administrator user only)
13	Window control	Minimize, Maximize & Exit Advanced Client Software

7.4.4 Site List Panel

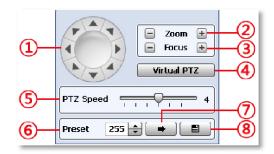


The Site List displays all the DEVICES currently setup for remote connection with the ACS application. To select and view a desired camera or device, simply drag it from the site list panel onto the viewing area. Then, select the options Live or Search from the tool bar, or the little pop-up icons after dragging the device to the vieweing area.

If you want to connect to a specific camera from a device, you can do so by expanding the site's display in the site list panel, and dragged a specific channel onto the viewable area.

7.4.5 PTZ control Panel

PTZ camera control is only available in Live mode.



No.	Button	Description
1	Navigation Key	8 directional arrows to move the PTZ camera.
2	Zoom	Optical Zoom.
3	Focus	Manually adjust the focus of the PTZ camera.
4	Virtual PTZ	Control the PTZ camera's movement, Zoom and Focus with the mouse on the channel's screen directly.
5	PTZ Speed	Adjust the PTZ camera's response speed. Higher number= faster camera movement.
6	Preset	Set PTZ presets on current view.
7	+	Go to the preset location.
8		Save the preset location

7.4.6 Calendar Search

The Calendar Panel is available in Search Mode only.

Datea highlighted in red indicate dates with recorded data available.

To start playback from a calendar search:

- 1. Select the day you would like to see.
- 2. You can also select specific hour, minute, & second to start playback.
- 3. If DST is selected, earlier one-hour overlapped video will be displayed first.

4. Press the button to turn all channels in the display area to the selected time.

<	[2010-08] >								
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
1	2	3	4	5	6	7			
8	9	10	11	12	13	14			
15	16	17	18	19	20	21			
22	23	24	25	26	27	28			
29	30	31							
	_	_			_				
DS	г	PN	/ 12:0	3:12	E	-			

7.4.7 Search Panel

The Search Panel is only available in search mode.

			1/19,	/2011 1	12:08:3	39 PM		K	•		∎▶		▶₽	-		Q	×	1		3-					
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Ch 01														_							1	_			
Ch 02				_							12	:08:39					-					_	-	_	
Ch 03	1.1.1		1																						
Ch 04																_									-

The Search panel displays the record information for each channel from a date selected in the calendar panel.

Each color represents a different recording mode:



To jump to a specific time in the playback using the Search Panel:

- 1. Click the time or move the time bar to the time you want to playback in the search panel.
- 2. To "zoom-in" to an hour in the Search Panel, doubl-click on the desired hour. The display time at the top of the Search Panel will display in minutes interval all 60 minutes of that selected hour. Time will be displayed in 5 minute spaces.

7.4.8 Playback control panel

|--|

No.	Button	Description
1	K	Go to First available data
2	¥	Forward Playback : Decrease the speed Reverse Playback : Increase the speed
3		Step Backward
4		Reverse Playback
5		Pause
6		Forward Playback
7		Step Forward
8	1	Forward Playback : Increase the speed Reverse Playback : Decrease the speed
9		Go to Last available data

7.4.9 Additional Control Options

(Audio On/Off): Turn On or Off for Audio channel.



Two-way Audio : Two-Audio between ACS and DVR.

Belay: Turn On or Off for Relay.

NOTE When options are not properly setup on the DVR side, these buttons will be disabled.

7.4.10 Event List Panel

Index	System	Channel	Date/Time	Sensor	Event
5	192.168.0.35	1	2010/08/31 (23:26:05)		MOTION DETECTION
4	192.168.0.35	3	2010/08/31 (23:26:05)		VIDEO LOSS
3	192.168.0.35	1	2010/08/31 (23:26:00)		MOTION DETECTION
2	192.168.0.35	1	2010/08/31 (23:26:00)		VIDEO LOSS
1	192.168.0.35	1	2010/08/31 (23:25:57)		VIDEO LOSS
•	1	1			

Event List Panel will display all evets related to the DVR currently connected. See section 6.6.4 Event for more information on setting up events recording on the ACS.

To start playback video from any of the events in the event planel, double-click on the item .

7.4.11 Display Channel



In Live mode, [Live] will be displayed with all white text information. Blue channel boundary.

In Search mode, [Search] will be displayed with all red text information. Red channel boundary.

A channel selected will be indicated by a yellow frame around it.

7.5 Advanced Operation

7.5.1 Event Search

Right-click on a site in the site list to view the quick access menu.

Select EVENT SEARCH to run Event Search.

System Connection Info	Index	Channel	Date/Time	Event	_
IP 192.168.0.135	36	8	2010/09/01 (00:30:42)	MOTION ON	
	35	1	2010/09/01 (00:30:42)	MOTION ON	
Port 9090	34	8	2010/09/01 (00:30:41)	MOTION ON	
	33	1	2010/09/01 (00:30:41)	MOTION ON	
admin	32	8	2010/09/01 (00:30:30)	MOTION ON	
ID 💛 admin	31	1	2010/09/01 (00:30:30)	MOTION ON	
	30	8	2010/09/01 (00:30:29)	MOTION ON	
Password •	29	5	2010/09/01 (00:30:29)	MOTION ON	
	28	1	2010/09/01 (00:30:29)	MOTION ON	
Connect Disconnect	27	*	2010/09/01 (00:30:28)	MOTION ON	
Connect	26	1 ()	2010/09/01 (00:30:28)	MOTION ON	
	25	8	2010/09/01 (00:21:34)	MOTION ON	
	24	1	2010/09/01 (00:21:34)	MOTION ON	
2)	23	8	2010/09/01 (00:21:33)	MOTION ON	
<u> </u>	22	5	2010/09/01 (00:21:33)	MOTION ON	
Contractor 2010	21	1	2010/09/01 (00:21:33)	MOTION ON	
September, 2010	20	8	2010/09/01 (00:21:32)	MOTION ON	
Sun Mon Lue Wed Thu Fri Sat 29 30 31 1 2 3 4	19	1	2010/09/01 (00:21:32)	MOTION ON	
	18	8	2010/09/01 (00:20:44)	MOTION ON	
12 13 14 15 16 17 18	17	1	2010/09/01 (00:20:44)	MOTION ON	
19 20 21 22 23 24 25 26 27 28 29 30 1 2	16	8	2010/09/01 (00:20:43)	MOTION ON	
3 4 5 6 7 8 9	15	5	2010/09/01 (00:20:43)	MOTION ON	
	CHANNE	1.40	(6) E	VENT ALL	

No.	Function	Description
1	System Connection Info	Input the information of Device and click 'connect'.
2	2 Event Download Status Right after connecting to Device, event information will be downloaded automatically. The download progress bar will be shown.	
3	3 Calendar Search If there is an event in the selected date, the date is highlighted. Select a speci- date to start event search.	
4	4 Interval Setup Set the time (start/ end time) for event search.	
5	5 Event List The desired date is chosen, the event list of the desired date will be shown list. Press 'Sart'	
6	Channel/Event Filter	Event information can be sorted by channel number, time, or event type. To view video corresponding to a specific event, double-click on that event.
7	Start/Stop Search	Start/Stop Search button.

7.5.2 Remote Backup

Right-click on a site in the site list to view the quick access menu.

Select **REMOTE BACKUP** to run Remote Backup.

Remote Backup		×
System Connection Info	System Recording Info 3 1.49 MB / 2.10 MB	•
P 72.243.193.216	Start 2012 - 11 - 08 / 13 : 00 : 00 2.45 MB / 2.10 MB 2.10 MB / 2.10 MB 2.10 MB	
Port 9010	End 2012 - 11 - 26 / 14 : 36 : 52 Disconnect Connecting to	
ID admin	Connected	
Password ••••	Backup Setting 4 Click [Create Directory] buttor A file name has been created.	
	Start 11/26/2012 • 2:30:00 PM 51.50 KB / 4.42 MB 1.48 MB / 4.42 MB	
Connect Disconnect	End 11/26/2012 T 2:36:52 PM 2.29 MB / 4.42 MB	T
	Channel (5) Select All	
C:\Users\debbieg.DIGITALWATCHDOG		
Create Directory	♥ 9 ♥ 10 ♥ 11 ♥ 12 ♥ 13 ♥ 14 ♥ 15 ♥ 16 Start Backup	

No.	Function	Description
1 System Connection Info		Input the information of Device and press 'Connect'
2	Recording Directory	Enter the recording directory to backup. Enter a desired file name and select where the file will be saved.
3 System Recording Info		Displays the start and end time of the available recorded data in the system.
4 Backup Setting		Setup the start and end time of the data to backup.
5	Channel	Select which channels to backup.
6	Backup Progress	Backup Progress bar indicates the backup process status.
7	Backup Status Window	Displays the backup status in text message.

When the backup process is completed, "Backup Completed" message will appear.



7.5.3 Firmware Upgrade

Right-click on a site in the site list to view the quick access menu.

Select **FIRMWARE UPGRADE** to run Firmware Upgrade. Firmware Upgrade allows you to update the DVR's firmwqare remotely.

DEVICE		DEVICE Name/ Current Version	Connecting to
IP	192.168.0.158	Model:	Connected Upgrade file has been selected.
Port	6060	Ver:	Upgrading in progress
ID	admin (1	New Version To Upgrade	4
Password		Model:	
Conr	Disconnect	Ver:	6
Firmware	File Directory	Upgrade Progress	
	Open C	Start Upgrade	

No.	Function	Description			
1 DEVICE Connection Info		Input the information of Device and click 'connect'.			
2 Firmware File Directory Select the firmware file directory to upgrade.		Select the firmware file directory to upgrade.			
3 DEVICE Name/ Current Version Displays the DVR's current Model and Firmware Version.		Displays the DVR's current Model and Firmware Version.			
4	New Version to upgrade	Displays the new Device Model and Firmware Version.			
5	Upgrade Progress	Start Upgrade and upgrade progress bar shows the upgrade progress status.			
6	Upgrade Status Window	Displays the upgrade status in text message.			

When the upgrade process is completed, "Upgrade Completed" message will appear.



7.6 ACS Setup

The ACS Setup menu allows you to adjust the software's settings such as: Device Registration, Network, User, Display, Event and other options.

7.6.1 DVR Registration

Add, Modify, Import, Export or Remove DVRs from the site List.

Name	IP	Port	Web port	Channel	Registration	
External	192.168.0.140:		80	1		
Office	192.158.0.141:	9010	80	1	Name	
Office2	192.158.0.137	1852	80	1		
Test	192.168.0.157	9010	80	1-16	IP Address or	Search
					Port	9010
					Web port	80
					ID	
					Password	
					Channel	Ex) 1-4, 1-8, 1-16
					Model	DVR / NVR -
Add	Edit			Remove	Aspect Ratio	Custom 👻
Import	Export					

To add a DVR, click 'Add' button, and input all required information
 If a DVR is set to UPNP, it can be automatically detected by using the 'Search' button. The DVR must be on the same
 network as the ACS to be able to be detected. Once the new DVR is added, it will automatically appear on the site panel.

No.	Function	Description				
1	Name The name of the site.					
2	IP	IP Address.				
3	Search Search the DEVICE sites in the same local network. (UPnP function)					
4	Port	Port of the site. (Default: 9010)				
5	Web port	Web Port of the site. (Default: 80)				
6	ID	User ID of the site.				
7	Password Password of the site.					
8	Channel Number of channel of the site. For example: 16ch DEVICE: 1-16 or specifically: 1,3,5,7,9					
9	Model	Select a DEVICE or DEVICE's model name.				
10	Aspect Ratio	Select the displayed Aspect Ratio. (Custom, 1:1, 4:3, 16:9)				

To modify and/ or remove a DVR's information, check the box next to the device you want to change, and click EDIT or REMOVE to make any modifications to the DVR's information or delete it from the Device List.

3. Use the 'Import' and 'Export' buttons to export settings from one DVR and import them to multiple DVRs on the list. Please note that all DVRs must have the same firmware version to be able to accept exported settings.

7.6.2 User

User authority can be changed by the Administratoruser only. "admin" is the built-in account for administrating the DVR and ACS program. (default password for the admin user is no password).

ACS Setup			-1			
Registration User Display	Event Misc.		16 1	User	Inter (ICC.)	×
Administrator				TD Possword		
Dve Registration	Search	DTZ Backup		✓ Lve Registration	🗖 Search	E PTZ
Add Keyboard	Edit	Kemove Apply			CK Cancel	

- 1. To edit a user's presmissions, check the box next to the desired user and select 'EDIT'. The User seupt page will appear. Here you can:
 - a. Change the user's ID and Password
 - b. Set which permissions current user will have. Check the box next to the permissions you want to allow current user:
 - i. Live Video
 - ii. Search Archived Video
 - iii. Registration-Add/ Edit/ Delete DVRs
 - iv. Remote firmware upgrade for DVRs
 - v. PTZ control
 - vi. Backup video files
 - c. Press OK to save changes, or cancel to exit edit mode.
- 2. To add a new user, press 'ADD' and follow a~c above.
- 3. To delete a user, check the box next to the desired user and select 'REMOVE'. (administrator user cannot be modified or removed.)

7.6.3 Display

The Display setup menu allows you to modify the OSD as it appears on the ACS.

Using the check boxes, select which information will be displayed on the video displayed on the ACS software:

- Title: Show/ Hide the Camera's title and channel number.
- Date/Time: Show/ Hide the Date/Time
- DEVICE Name: Show/ Hide the DVR's name.
- **Time Format Sync**: Synchronize the DVR's time format to ACS.
- **Record Status**: Show/ Hide the Recording Mode for each channel.
- Live/Search: Show/ Hide the Live/Search indicator.

	t Misc.	
OSD		
Title	V Date/Time	
DEVICE Name	Time Format Sync	
Record Status	📝 Live/Search	

7.6.4 Event

Setup the event port, event type, and popup settings for events recorded by the DVR.

gistration User Display Event Mi	sc.				
Event					
Port 2001					
To apply the settings that you char	nge, please close the program and open it again.				
Filter					
Sensor	System Start				
Motion Detection	V Log In/Out				
🔽 Disk Full	Recording Failure				
Admin PW Changed	V S.M.A.R.T				
Video Loss					
Action					
Popup Duration 0	Sec Pop-up Window				
Sound If popup dura	tion is 0 sec, this option doesn't work,				

No	Item	Description
1	Port	Input the same event port as the one set on the DVR's setting to receive event notification from the DVR. See section 4.4.3 Notifications for more information.
2	Filter	Select the type of event to receive.
3	Action	Setup the popup duration and enable beep sound on the ACS side.

7.6.5 Misc.

Setup the Recording Directory, Language, Auto Upgrade, and Auto Login options.

Registration User Display	Event Misc.
Recording Directory	
	Users\User
Clip format ASF	
Language	
ENGLISH	
To apply the settings th	at you change, please close the program and open it again.
ETP Information	
ETP Information FTP Address	
FTP Address	Auto upgrade
FTP Address ID Password	Auto upgrade
FTP Address ID	Auto upgrade
FTP Address ID Password	Auto upgrade
FTP Address JD Password Auto Login	
FTP Address JD Password Auto Login	Auto upgrade
FTP Address JD Password Auto Login	

No.	Function	Description	
1	Recording Directory	Select the recording directory to save images (saved as .jpg) and video clips (saved as .ASF or .MP4).	
2	Language	Select a desired language from the drop-down options.	
3	FTP Information	Enter the FTP's information. Once the FTP setup is done, the ACS will automatically detect the latest DVR firmware is availanle in the FTP and will start remotely upgrading the DVRs in its device list.	
4	Auto Login	If 'Auto Login' is enabled, after inputting ID and Password, next time when you login, you don't need to type in the ID and Password again.	



Chapter 4

MAC ACS CLIENT SOFTWARE USER MANUAL

8 MAC ACS USER GUIDE

8.1 System Requirement

Recommended System Requirement

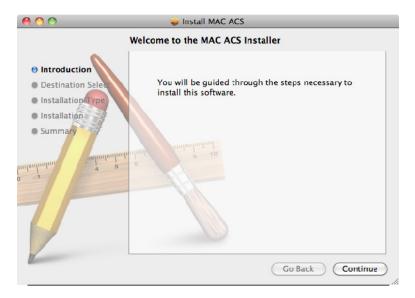
OS	Mac OS X 10.6(snow leopard)
CPU	Built-in Intel CPU MAC
VGA	Recommended More than 128MB
RAM	Recommended More than 1GB
HDD	20MB Free Space

Minimum System Requirement.

OS	Mac OS X 10.5(Leopard)
CPU	Built-in Intel CPU MAC
VGA	64MB
RAM	512MB
HDD	20 MB Free space

8.2 Install

a. Run MAC ACS.pkg installed on the CD. A Setup Menu will appear as below. Follow the installation instructions to complete the installation.



b. Select the directory where you would like the ACS software to be installed to. Press the [Continue] button to move to the next screen.

00	🥪 Install MAC ACS
	Select a Destination
Introduction	Select the disk where you want to install the MAC ACS software.
 Destination Select Installation Type Installation Summary 	Macintosh HD 206.92 C8 free 249.72 C8 total
nahadaalaa 4 2	Installing this software requires 9.4 MB of space.
T	You have chosen to install this software on the disk "Macintosh HD".
T	Go Back Continue

00	🥪 Install MAC ACS			
Standard Install on "Macintosh HD"				
 Introduction Destination Select Installation Type 	This will take 9.4 MB of space on your computer. Click Install to perform a standard installation of this software on the disk "Macintosh HO".			
Installation Summary	annantumum -			
	Change Install Location			
T-	Go Back Install			

😝 🔿 🔿 😜 Install MAC ACS

- c. Press the [Install] button to Install MAC ACS.
- d. Enter the password and Click [OK] to begin installation. When the installation is complete, the message appears as below.

		The installation was completed successfully.
	Type your password to allow Installer to make changes.	 Destination Select Installation Type Installation Summary The installation was successful.
	Name: one2ten Password:	The software was installed.
Details	Cancel OK	Go Back Close

8.3 Basic Operation

To run the ACS on your MAC, click on ACS icon in Application Folder.



8.3.1 Screen Layout

00						Ad	Ivanced Client Software		C
73			P	6	<i>R</i>	@ 😐	L L (1		
Site Manage	a			t Disco	onnect	Disconnect All Print	JPG Export MOV Export		1 Split 4 Split 9 Split 16 Spl
lame	_	Descript		_	_	[01]	[02]	[03]	[04]
> 158		192.168							
► 157 ► new site		192.168 192.168							
				2)	n	off	off	off
				0		[05]	[06]	[07]	[08]
0	0.0			(3)					
 Live 	Us	earch		9		of	on	off	off
-				4)	[09]	[10]	(11)	[12]
1	T	Zoo			-				
-	1					n	off	off	off
-	-					[13]	[14]	[15]	[16]
Preset	01		• (Go)				
•	De	cember 2	010	~	*	-11	off	off	off
		1	2	(5)) 4				
5 6	7	8	9	9	11	2010.12. 1.오전 11:46:02		THE PROPERTY AND	Audio 💿 On 🔿 Off
12 13	14	15	16	17	18	2010.12. 1. 2 11:40:02	H	×1	
19 20	21	22	23	24	25				
26 27	28	29	30	31		Ch. 00 01 02 03 04	05 06 07 08 09 10	11 12 13 14 15 16 17	18 19 20 21 22 23
						01			
오전 11:	46:02	3 🗆 DS	т	<u>Go</u>	C	02 03 04	6		
						the second second second			

No.	Item	Item Description	
1	Main Toolbar	Device Management, Connect & Disconnect, Print Image, Export Image or Video, and Dicpaly Options.	
2	DVR List Panel Registered DVR Site List. Possible to connect by Dragging		
3	Live/Search Click Live or Search mode to connect the panel		
4	PTZ Panel PTZ Camera Control in Live mode		
5	Calendar Panel Search by Time and Date		
6	Search Panel	Recorded information is displaed in Search. Control Playback speed and Audio.	
7	Display Panel	Displays video from the selected cameras, in live or playback modes.	



No.	Button Description		
1	Site Manager Register or Delete DVRs		
2	Connect Connect to a selected site from the DVR list panel (Select Live/ Search set the connection mode)		
3	Disconnect	Disconnect a selected channel	
4	Disconnect All	nect All Disconnect All Channels	
5	Print	Print image	
6	JPG Export Save a selected image to the desktop as JPEG format		
7	Movie Export Save a selected video clip to the desktop as mov format		
8	Split Single Channel, 4-Split, 9-Split, 16-Split		

8.3.3 Site List Panel

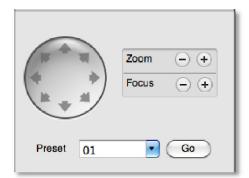
Name	Description
▶ 158	192.168.0.158
▼35	192.168.0.25
CH. 01	Drag & Drop
CH. 02	
CH. 03	no
CH. 04	[05]
CH. 05	
CH. 06	A
CU 07	

The site list panel shows all registered DVRs. To connect a site, Drag & Drop it to the display area.

Before connecting to a site, select Live or Search from the connection mode panel.

8.3.4 PTZ Panel

PTZ camera controls in Live Mode. PTZ Camera can control if the channel is activated on PTZ operation.



No.	Button	Description	
1	Navigation Key	PTZ camera can be moved in 8 directions.	
2	Zoom	Optical Zoom In and Out.	
3	Focus	Adjust the focus of PTZ camera.	
4	Preset Select the preset location.		
5	Go	Go to the preset location.	

8.3.5 Calendar Panel

The calendar is enabled only in Search mode.

		Sept	ember	2010		
s	М	Т	W	Т	F	5
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		2
	4					9
	7:57:0	7 PM 🕄) 🗌 D:	ST	Go	\supset

Days with available recorded data will display a small dot under the day's date in the calendar. The selected day will be highlighted in Blue. When you click on a recorded date on the search mode, the playback time will automatically update.

Press the Go button to start playback from the selected date and time.

If DST is enabled, the earlier one-hour overlapped video will be shown first.

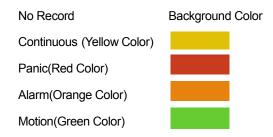
8.3.6 Search Panel

The Search panel is enabled only in Search mode.

																								~
Ch.	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01																								
02																			Т					
03																								
04																								

- The Search panel shows the record information for each channel.

- Each color represents a different recording mode:



- Click the time or move the time to the time you want to playback in the search panel.

8.3.7 Playback Panel

H	44		٠	-	M	_	1	1	\triangle	1	1		x1
14	44	-		ht.	P1	_	_	_	()	-	_	_	X1

No	Button	Description
1	I	Go to first
2	ŧ	Forward Playback : Decrease the Speed Reverse Playback : Increase the Speed
3	۲	Reverse Playback
4		Pause
5	٠	Forward Playback
6	*	Forward Playback : Increase the speed Reverse Playback : Decrease the speed
7	F	Go 10 seconds before the end of the data.

8.3.8 Site Manager

Add, Modify, or Remove DVR site information.

000		1	iite Manager			
Name	Address	Port	User ID	User Password	ch.	model
						<u></u>
+ -					Apply)

Press add a DVR entry. The system will fill out the information automatically.

00			Site Manager			
Name	Address	Port	User ID	User Password	ch.	model
new site	192.168.0.1	9010	admin		1-16	EVS
+ -					Appl	Y

To change the default values, double-click on the item. For example, double-click " New Site " to change the name.

Address	Port	User ID	User Password	ch.	model	
192.168.0.1	9010	admin		1-16	EVS	
				Apple	2	
				Apply		
	192.108.0.1	192.168.0.1 9010	192.168.0.1 9010 admin	192.108.0.1 9010 admin		192.108.0.1 9010 admin 1-16 EVS *

After all the necessary modifications have been made, press the Apply button.

No.	Function	Description
1	Name	Enter a name for the site
2	IP	Enter the IP of the site to be registered
3	Port	Enter the Port number of the site to be registered (Default 9010)
4	User ID	Enter the ID of the DVR to be connected
5	User Password	Enter the PW of the DVR to be connected
6	Ch.	Enter the channels of the site to be registered. For example: 16 Ch DVR: 1-16, individual cameras 1,3,5,7,9
7	Model	Select Model name of the DVR to be registered

-

If you want to delete the registered DVR information, Select the DVR and click

After modifications have been made, press





Chapter 5

FACESTAMP SOFTWARE USER MANUAL

9 FACE STAMP SOFTWARE

Indepandant Face Stamp SW is supplied in the DVR's accessory CD to manage the face stamp events search, various reports, user management and work hour calculation.

9.1 Face Stamp Software Set-up

9.1.1 System Connection Info

In order to operate this S/W after installation, access the target VMAX960H or VMAX960H Flex. Input the DVR's IP address, Port No, DVR login ID and pass word to connect. See section 4.4 Network for more information.

System Connection Info
IP qvs187.dwddns.net
Port 18710
ID admin
Password
Connect Disconnect
Download
Start Date 1/31/2013 🖃
End Date 1/31/2013 📃
DOWN

9.1.2 Download

After connection, set the start and end time. This time frame will indicate the start and end time of the data (Facestamp events) downloaded from the DVR to the Facestamp software. Press the 'DOWN' button to start downloading. The download process will be indicated by the blue progress bar. When download is complete, all selected events will display in the table section.

System Connection Info
IP qvs187.dwddns.net
Port 18710
ID admin
Password
Connect Disconnect
Download
Start Date 1/31/2013 💌
End Date 1/31/2013 🗾
DOWN

9.1.3 Work Time Set-up

Administrator can set-up the company's work time by day when Go ► button is pressed, start & end time of work and break. After setting of work time, click Add button to save this list. Administrator can edit and delete the pre-saved list in drop-down list.

Setup User List D	laily 👘	Period		R	sport													We	r. 1. 0
ystem Connection Info IP 192.168.0.209 Port 20910 ID sdmin		New		J	Work Time	Break Time													
Password			00	01	Work Time Setup		11	12	13	14	15	16	17	18	19	20	21	22	23
connect Disconnect	G0 ►	Mon			Business Time	End Time													
Start Date 2013-02-15 -	60 ►	Tuc			11:50	11:50 ×					_								_
End Date 2013-02-15 *	60 >	Wed			F E Break						_								_
earch	60 🕨	Fri			Start Time	End Time													
Start Time 2013-02-15 💽 [12:00:00:AM 🚍	G0 🕨	Sat																	
ad Time 2010-02-15 · [11:59:59.PM ···	60 🕨	Sun			Ok	Cancel													
Name 1d JAEHWA -	E	10			elete													Add	_
P IN P OUT																	-	Alau	-
Q. Svarth	Log Started 192.168.0.20	9 Conn	ect S	ucces	8														

9.1.4 User List

When Face Stamp data is downloaded from VAMX960H / VMAX960H flex, registered user list in DVR will be automatically displayed. User list and IDs can be added and deleted in Face Stamp S/W. Once revisions are made to the USER and ID lists, it can be uploaded directly to the DVR for convenient management of multiple users.

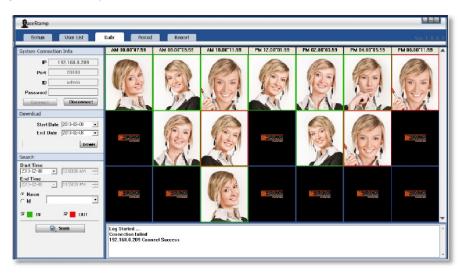
NOTE User list should be downloaded from DVR first, then modified in the software accordingly. When user list is uploaded from Face Stamp S/W, it will overwrite any previously saved date in the DVR.

stem Connection Info	-				PERCENT.	HOUTEST	
		N	1111	JAEHWA	222/4444	NY	C3
IP 192.168.0.169	2	N	5738	JANE	111/2222	SEOUL	62
Port 16210		N	4321 7483	TOM CHOLYONGHUN	643/7675 123/5641	LA Secul	A2 Lab
ID admin			/403	CHOLICORDHON	125/2041	2000	640
Password							
Connect Disconnect							
ownload							
Start Date 2013-02-06 -							
End Date 2013-02-06 -							
DOWN							
earch							
Start Time							
013-02-06 - 12:00:00 AM -							
Ind Time							
2013-02-06 🖃 11:59:59 PM 📥							
Name							
r id JAEHWA 💉							
IN 🛛 🗖 OUT			SEARCH		Add Dele		
N 12 001	User	Import	ALEEVHCH		Add Dele	tes	DVR Upload

9.1.5 Daily Search

Set desired date to search Face Stamp events. You may also filter the results by selecting other conditions such as name, id, or in and out. Click Search to view the search results.

Face Stamp events will be displayed with still image by time. When an image is double-clicked, up to three (3) seconds of pre-event recording video will be played back.



9.1.6 Period Search

You can also perform search on longer periods of time. This is helpful to maintaining an accurate payroll system and deter any fraudulent time reports.

Set start & end time to search Face Stamp events during desired period You may also filter the results by selecting other conditions such as name, id, or in and out. Click Search to view the search results.

The events list will be displayed and Pre-event recording video can be played back when double-clicking on an event.

PaceStamp					
Setup Vser List	Daily Period I	laport			Ver. 1. 0. 0. 1
System Connection Info	Jodes D	ItserName	Date		Acress Type
IP 192.168.0.209	1111	AAAA	2013/01/31	39:21:06	IN
Port 20910	3 3333	CCCC	2013/01/31	39:21:19	IN
ID admin					
Fassword					
Connact Disconnect					
Download					
Start Date 2013-02-08 ▼ End Date 2013-02-08 ▼ DOWH	i				
Start Time 2013-02-08 • 12:00-01 AM					
End Time 2013-02-08 • 11:58:59 PM ÷					
© Name ⊂ Id	1				
IN 🔽 OUT					
Scott	Log Started Connection failed 1 92.168.0.209 Connect Succes	5			

9.1.7 Report

Face Stamp SW supplies daily, weekly, and monthly reports by face stamp event as well as work hours calculation. In the user tree, you can select a specific user to see individual reports. If you select the root group, all users will be displayed in the reports.



9.1.8 Daily & Weekly Report

Select user and daily or weekly repot. Target date/week can be selected in the calendar and it should be within the predefined downloaded period.

Press search to get locate all proper events during the desired period.

A graphical report will be displayed by work time set-up, with the events list at the bottom of the screen. You can save or print the report for your personal records.

Bysicom Connection Info IP 192.168.9.206 Part 20913 ID admin Password	ARE JASHE(5738) TOM(4921) CHOI YOMEHU		с а с	Dall Wee	oport y Repr sidy R athly F	urt			100 A 400	23 3 5 8 12 1 19 3 26 7	0 31 7 1 0 21 2 7 28	1 2 8 9 5 16 2 28 1 1 2 8 9	3 10 24 3		-	те		rmat =	osv	0			Geo		
Deventional Blant Date Blant Date End Date Blant Date Start Date Start Date Start Date Start Date Start Date Start Time Coll Date		Man Tue Wed Thu Fri Sat Sun	00	01 0	12 0	3 04	05	06	07		09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
R Neme R Neme C Id R DAEHNVA P N R OUT Q Seeh	Log Started 152.168.0.209 Com	1 2 3 4	20 20 20 20	13-01-2 13-01-2 13-01-2 13-01-2	1 1 1	Nonda Monda Monda Monda	y 1 y 1	1111 1111 1111 1111	34 34 34	NUT NUT		U-M	C3 C3 C3 C3 C3 C3	15.		22 22 23 23 23 23 23	174		11 45 16 42 16 59 17 05			8:43		00:	

9.1.9 Monthly Report

Monthly Report will display events lists only.

System Connection Info IP 192.168.0.209 Port 20910 ID admin Password			C Daily Report			February M T W T 28 29 30 31 4 5 6 7 11 12 13 14 18 19 20 21 25 26 27 28 4 5 6 7	F S S 1 2 3 8 9 10 15 16 17 22 23 24 1 2 3	File For	⊂ csv	R Search		
Connect Disconnect		Index	Date 2013-01-21	Day	ID 1111	User Name	Department C3	Work Type	IN 11:45	OUT	Work Ho	
Download Start Date 2013-02-15 End Date 2013-02-15	-	2 3 4	2013-01-21 2013-01-21 2013-01-21 2013-01-21	Monday Monday Monday Monday	1111 1111 1111 1111	JAEHWA JAEHWA JAEHWA JAEHWA	3 3 3	88 88 88 88	16:42 16:59 17:05	16:43	00:01	
Search												
Start Time 2013-02-15 • End Time 2013-02-15 • 2013-02-15 • C Id JAEHWA												
F IN F OUT												

9.1.10 Print Report

Printed report will supply user information. Picture is available when it is uploaded in user list.

Report will show all record of In/out Face Stamp event and calculated work hours.

A CARACTER STATE		Compa Depar Name ID Period	tment : Admintra : Susan : 1275					
ndex	Da	ite	Day	Department	Work Type	In	Out	Work Hou
1	2013/0	01/21	Monday	Design Team	Normal	08:50	09:30	00:40
2	2013/0	01/21	Monday	Design Team	Normal	10:30	12:00	01:30
3	2013/0	01/22	Tuesday	Design Team	Normal	08:30	11:00	02:30
4	2013/0	01/22	Tuesday	Design Team	Normal	13:30	18:00	04:30
					Total	Nork	C	9 : 10



Chapter 6 MOBILE PHONE SOFTWARE USER MANUAL

10 MOBILE PHONE SOFTWARE USER GUIDE

10.1 iPhone application software

1 Installation DW VMAX 234	156789
1 Click 'App Store' and click 'Search' to search the	'DWVMAX' application in the App Store.
Image: Section of the section of th	New What's Hot Genius Image: Construction of the state of the stat
2 Type in 'DW VMAX' and click 'Search', then you	will see the 'DW VMAX' application icon on the screen.
dw vmax 8	Q dw vmax Image: Constraint of the second
QWERTYUIOP ASDFGHJKL & ZXCVBNM 123 # space Search	Featured Categories Top 25 Search Updates



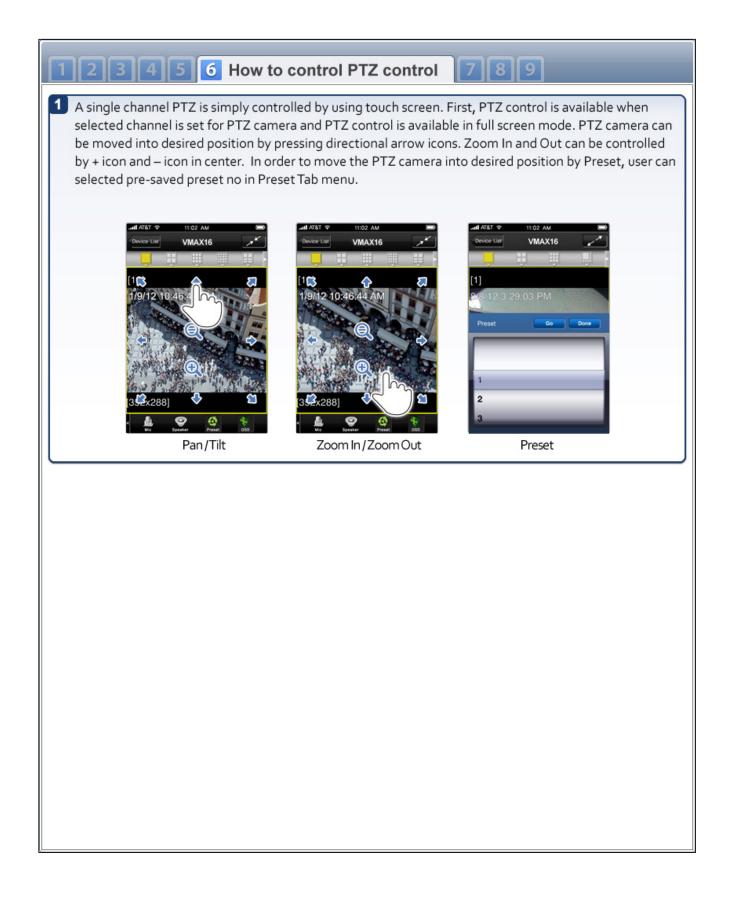
1 2 How to connect	and setup 🖪	4567	189
1 Press "+" button to add desire	d device.		
		ice List	
		480	
	VMAX	16	
	Blackja	ack16	
	camera		
	Live Search	Setup Help	
			model option, please choose "DWVMAX".
	Device Save	Latil AT&T 🗢	11:02 AM E
Name	Test	User ID	Admin
Ch.	1-16	Password	
Address	112.216.8.1	Model	DW VMAX
TCP Port	2000		Cancel
Web Port	80	Advanced	(480/400fps Series)
User ID	Admin	IP Camera	a
Password		DW VMAX	
Model	DW VMAX		

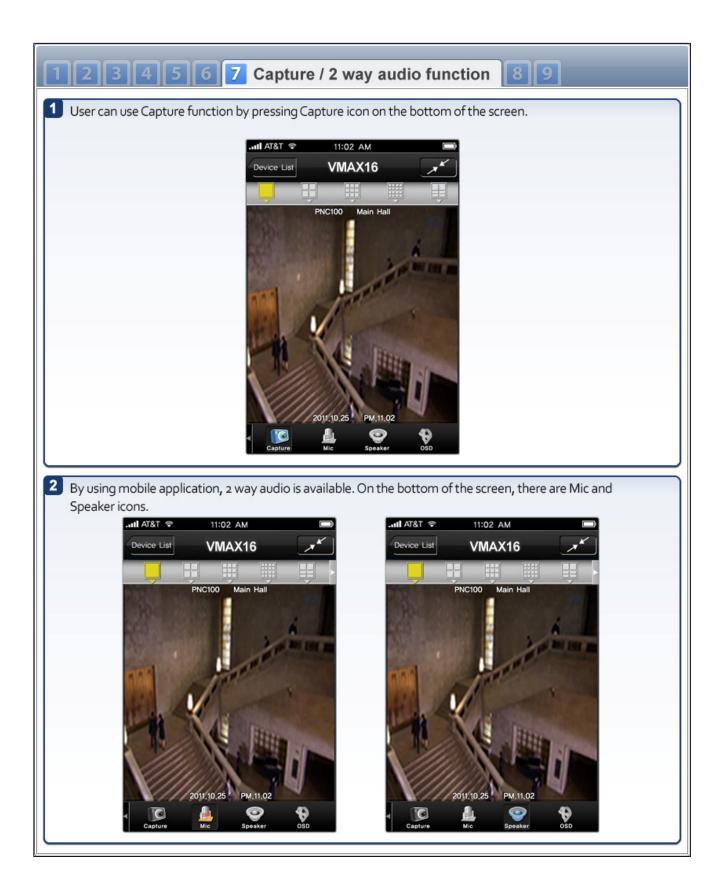
133 | H.264 Digital Video Recorder

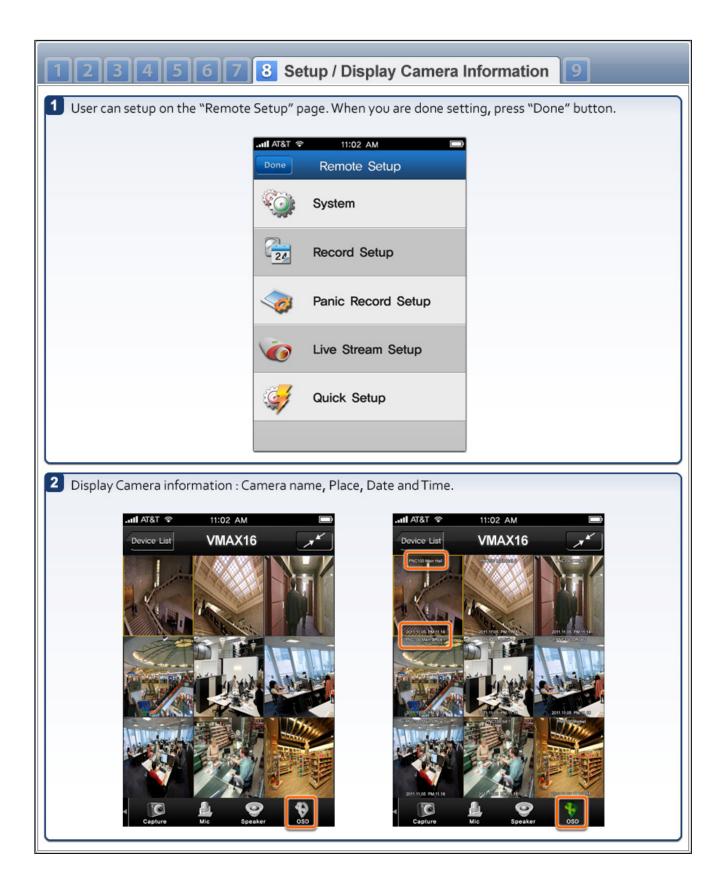


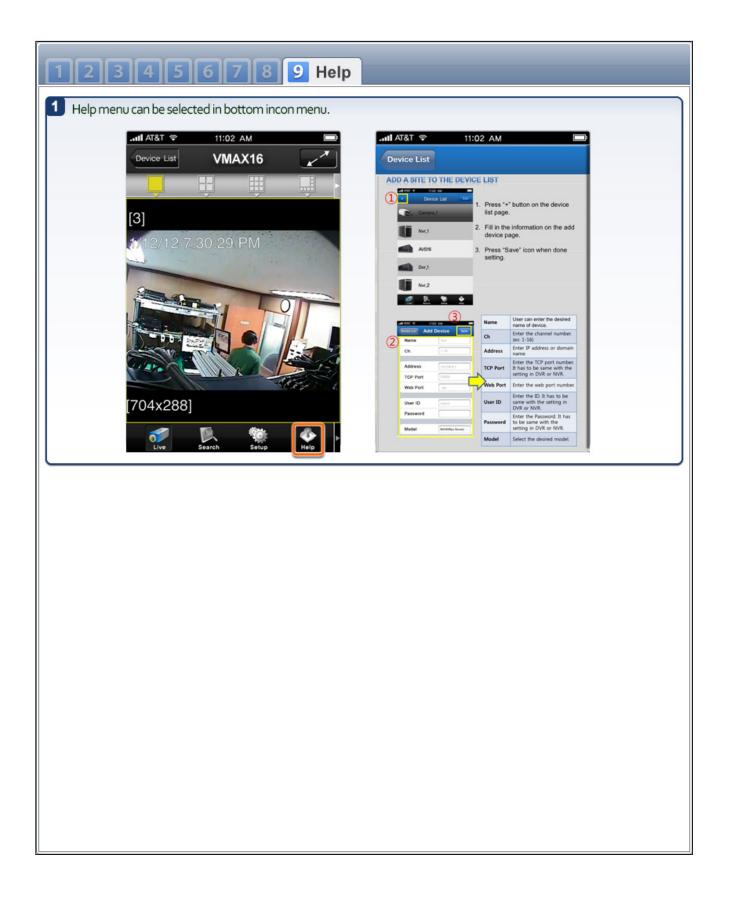






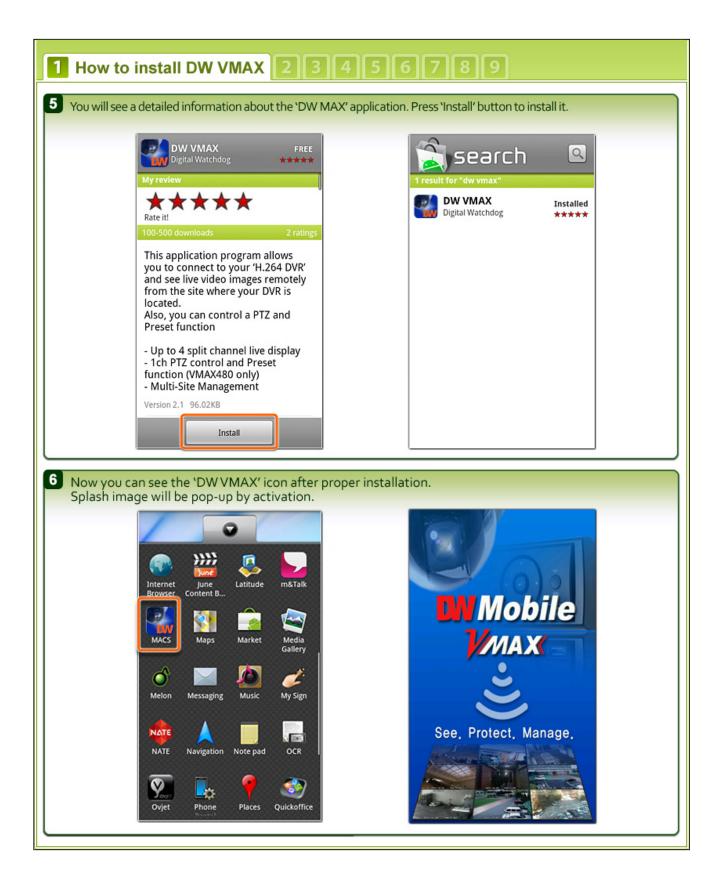




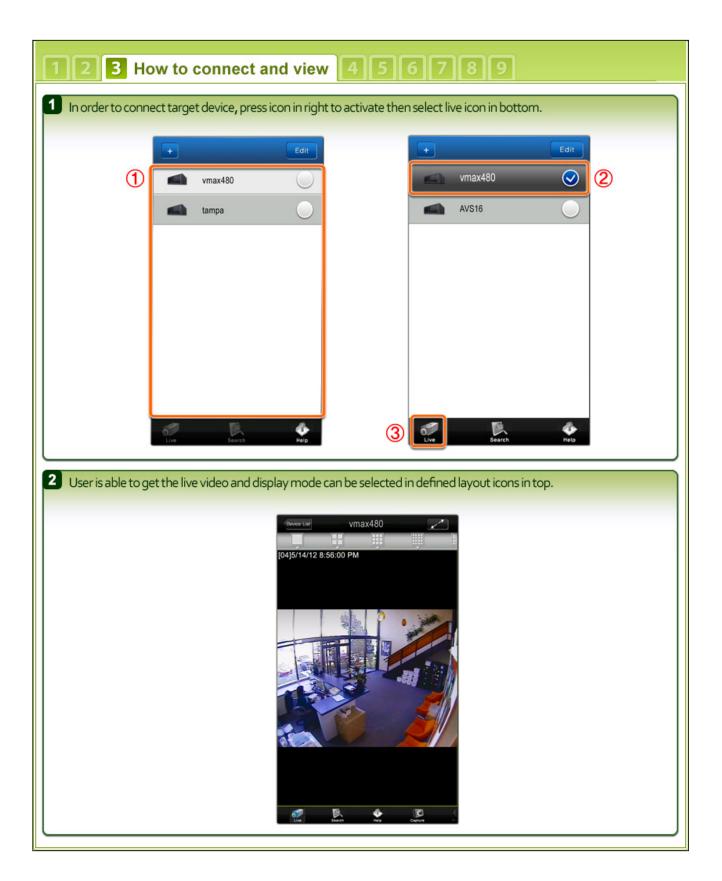


10.2 Android application software

1 How to install DW VMAX 2 3 4	56789
1 Press 'Market' icon	2 Press 'Search' icon
Image: Constant of the second sec	Apps Games Downloads Apps Games Downloads PPS WCZE Browse Travel Featured Featured Yonhap News FREE Psynet ***** Vingo Corp. ***** Vingo Corp. *****
3 Type in 'DW MAX' and click 'Search' icon.	4 Then, you will see the 'DWVMAX' application icon on the screen as shown below. Select the application. Image: Search
qwertyuiop asdfghjkl. ↑ zxcvbnm ≪ 21A1% ↓ + ↓	Digital Watchdog *****

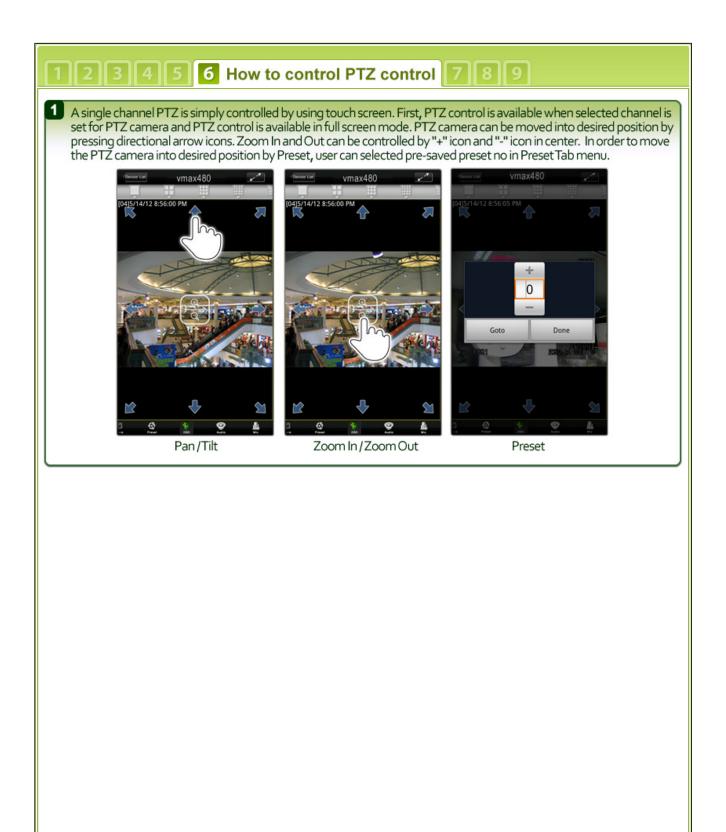


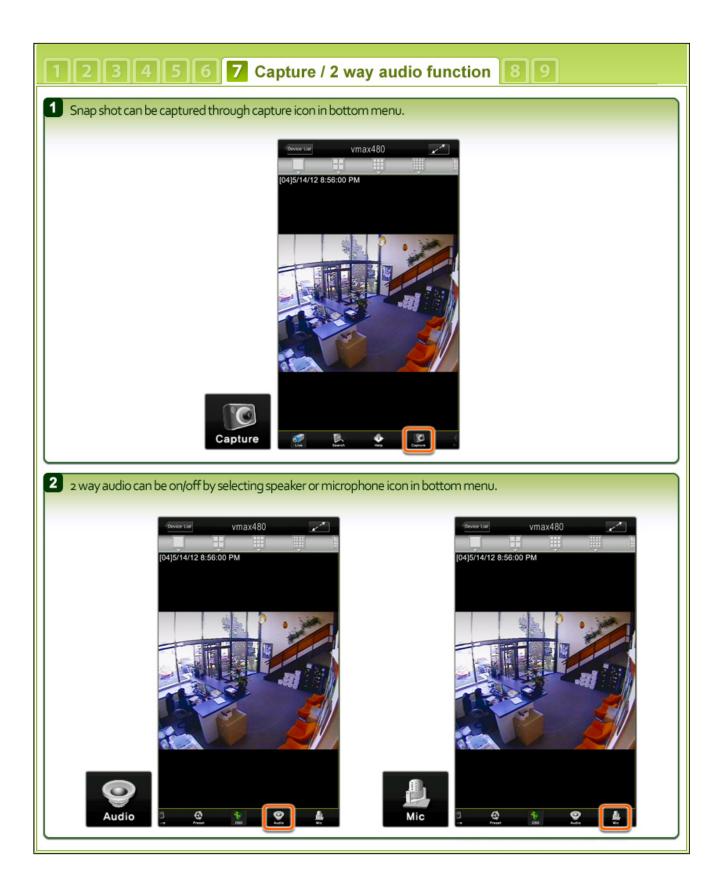
1 2 How to connect and setur	3456789
1 Press "+" button to add desired device then se	t-up menu will be pop-up automatically.
	Edit vmax480 tampa
	Rearch Help
2 Fill in the new site information correctly and	d press "Save" button to save after selecting correct device.
	VMAX480 ame Sample 72.243.193.203 9020 admin
	Save Close

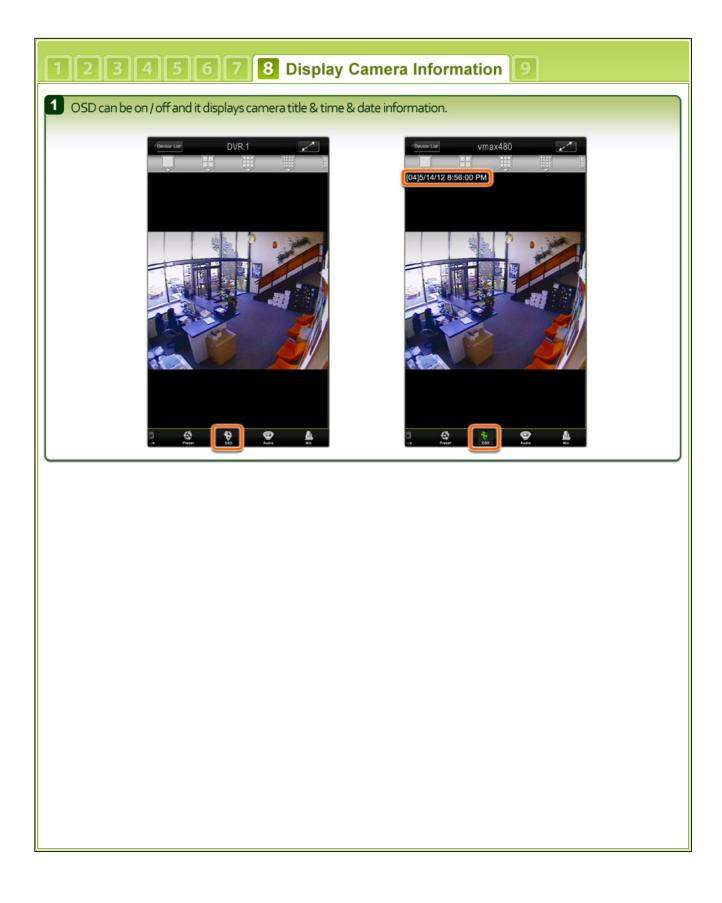


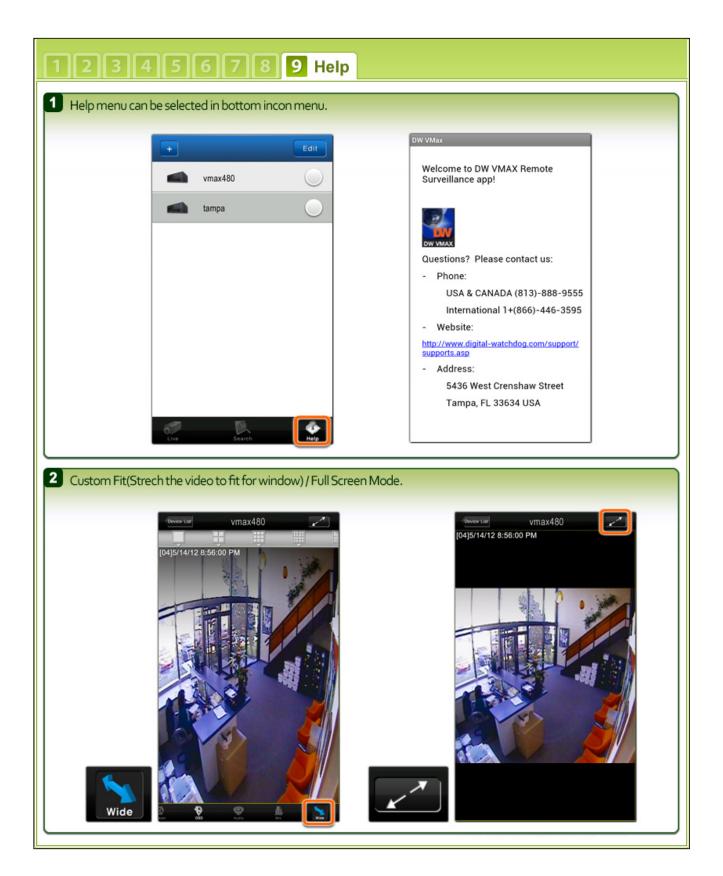




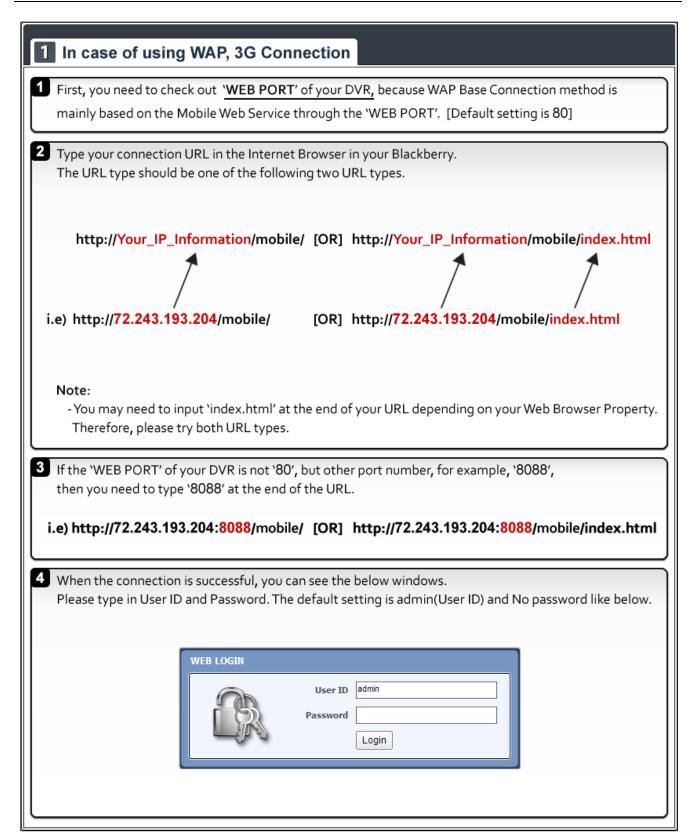








10.3 Using WAP+3G Connection

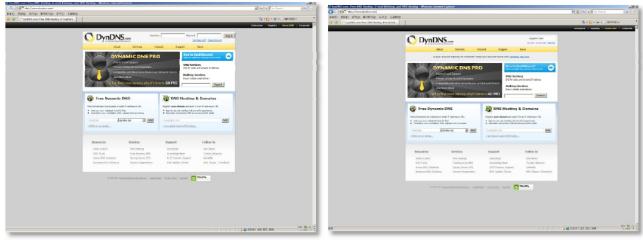


1 In case of using WAP, 3G Connection Note: - When connection established successfully, the JPEG image will be refreshing 1 image per about 5 seconds automatically.

APPENDIX : DYNDNS SITE REGISTRATION

1) Go to www.dyndns.com

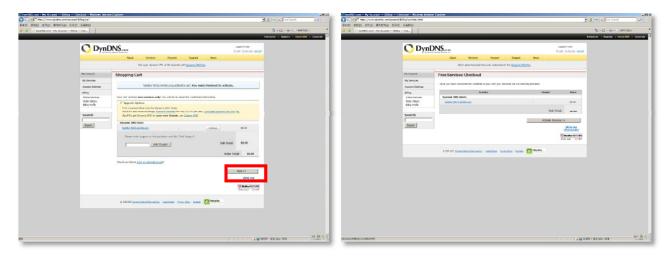
2) Log in to the Site after registration



- 3) Click "Add Hostname" button on "Host Services"
- 4) Enter the IP address and Host name on the blank

					Interprise - Register - Nover200 - C	2 P POydellans - Hy Accor			Er.	deprise + Replicity - Norma 1883
	🔿 DynD	NS.com		Legach Une Ar Cat. In Service Jac Dit			🔿 DynD	NS.com	Logged Torcheor McCarl McCarcheor Sector	
	Name Devices Address Registrer News Van Deremis 1945 wild vanz own demokratere with Custom 2865.		News				About Services Account Support News			
			6				skets being blocket for ebuilweighdene, browene your access threshold with <u>Oppenie DEG Inp</u>			
	My Acesont	Account Level Services					Ap. Account	Add New Hostname	1180L10180	
	My Servers Oriente(2005 Pro Internet Galle SLA	Paul Account (/) Rymanik: 340 Priv Rygradics (/)	5. 5	Salara Laura Jac. 188			Hig Services Overans: (FES Pro Internet Gode	inten: Les un comp des la teux mon active <u>Constant Los La companien</u> in pars monents. Tou comma new Statures. Paying for an Donamic Diff. Pro spegnade will renize this form help functional and will act anno	nilober festeres.	
	Pranier Support Jone Level Services Developmentation and barrier (PGInating, Mailing services Heat Services	DBE Service Level Agreement (7) PresilerSupportOption (7) Internal Galde - Huna Ancorder DBE (7)	tana tana kashalle hashala	All Diff. Sector Law American All Press Sauch Com Texas Science (1995) Tables			diversion Report Zone Level Several Several report for and traveling an one Native an one	Allidicard Status: Onsoled (<u>Dest Visional accepti)</u>		
	Spring Server V Hiskop Gutters Receipte 285 Nativest Blocks SS, Certificates	Touche net consulty have any processor an edge.					Press Semicala Inserver 255 Internet Ville Unit Foremains Realing Senser Ville Making Senser Ville Making Settler Making Manifolding			
	Renew Jervices Auto Renew Settings Sync Contribute AccountSettings	Host Services No Retrans series upiteral.		Ad Jindhene			550, Confinates Renew Lenvoes Auto Renew Settings Santo Exercitoria Account Settings	and accorded. Location require require to a fact that the set of the set of the set of a constraint set of the set of t		
	Dileg	Other Services					Ethng	Add To Carl		
	Hy Cat	Ralling Dationed (*)	lave	-			📌 🔤			
	Search	Recenter DIS (0) 10. Centroles (0)	No.				for the second			
	Searca	Spring Server VTS Entertoise (3)	les .	54			Search			
	Search	Network Ricetaring (1)	line	RE			Saset			
		il 199 000 <u>Smerickeloni Janim Jac</u> - Laulidan	- Banaldor - Santa 【	TRUSTR				t 199 09 Constituted Activity - Mallation - Sciencific - Contes		

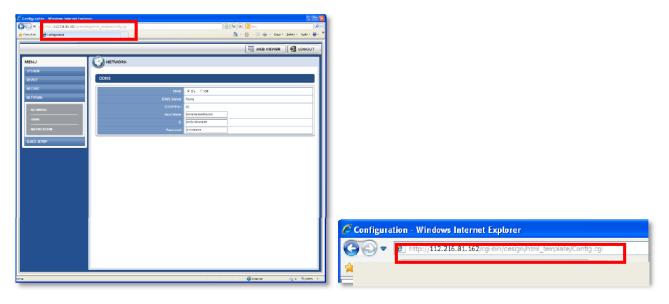
- 5) Click "NEXT" Button
- 6) Click "Activate Services" button



7) Confirm the domain name and IP address

DF2 (617468 (0172 CE	0 5890					
DysERELcons - My Account Host	Services				① · ① · 册 · ① #83309·	•
	O DynD	About Se	waes Account Support	Logged in them the Carl the Section Long Bud News	Enlegates + Registry + Normal 200	. 6
	My Account	Host Services	pfor inactivity? Keep your occount active with <u>Donan</u>	Add New Hostname - Hest Update Logs		
	Hy Services	HOST Services		CALORIZ CHOLENE - MALLANER LAN		
	Ourame 185 Pro		testifiv-9310.dvrdns.org successfully an	tivated.		
	Internet Guide					
	SLA Premier Support	testdor-9010.dordina.org	Heat 100.100.395.100	Sep. 23, 2109 8:04 AM		
	Zane Level Services Danatic registration and transfer, (216 heating, Halting services					
	Hult Services Dimans: OHS hosts, Webriton URL Perventing					
	Spring Server VPS Nailing Outbound Recordine DRS Nativeski Monitoring SR, Certificates					
	Ranew Sankces Auto Renew Settings Sync Expirations					
	Account Settings					
	Billing					
	Se inter					
	Search					
	Search					
		a 1999-2009 Consent. Subjects	ersion.lts Louilleton - Researchiter - Garbots 🥻	TRUSTe		

8) Check the connection status



- Tip
- 1. It may take a little time to be completely done for DNS deployment after changed sub domain.
- 2. Please recheck DVR's IP address registered in the My Service Menu, if you can't access DVR using dyndns.
- 3. If you are using dyndns to change the IP address for the DVR to the update request, dyndns update by the circumstances that may be late.
- 4. Dyndns domain is registered by the policy. If the update occurs frequently, it may be blocking. Please recheck DVR's service status registered in the My Service Menu, if you don't access dyndns.
- 5. If you don't access dyndns for a long time, domain will be deleted automatically. To prevent this, please access it regularly, or you will have to pay for it again. For more information, please contact to dyndns directly

APPENDIX : NETWORK SETUP FOR EXTERNAL USAGE

Please note: The following information are general guidelines. These may vary by networkand router specifications. Contact your installer or ISP for additional information.

If you are not connecting to your DVR from within the same network, you will have to perform port forwarding on your router to be able to access the DVR externally, via the internet.

- 1. In the [Network] menu set "Network Type" to [Dynamic IP] and click [IP DETECT]. The system will automatically detect the correct settings for the network where the DVR is installed.
- Once the system generates all the information based on your network requirements, change the Network Type to Static and save all the changes as static.
 A static IP address will not be changed by the network. Contact your Internet Service Provider or Network Administrator for additional information and to obtain a static IP address from them.

کې 🌏 💽 📷 🕒 😂	NETWORK							
Network DDNS Notification								
	• ETHERNET ONAS							
NetworkType	Static IP	IP Detect						
IP Detect Progress	0							
IP Address	192.168.1.160	œ						
Subnet Mask	255 255 255 0	P						
Gateway	192.168.1.1	æ						
DNS Server 1	0.0.0.0	æ						
DNS Server 2	0.0.0.0	œ						
TCP/IP/Mobile Port	9010	<i>d</i> <i>d</i>						
Web Port	80	æ						
Bandwidth Limit	100 Mbps							
Use UPNP Auto Privale IP Setup (NAT Traversal)								
Default Help		Save Cancel						

- 3. Some internet service providers block port 80 in their customer's routers. It is recommended to change the web port number to 81 or 82.
- Access your router by entering its external IP address in your web browser. This information can be found by running an ipconfig command on your computer's Command Prompt. The router's external IP address is the GATEWAY address.
- 5. Check the DHCP settings in your router and setup the DVR for external connections by performing port forwarding. It is highly recommended that you contact your Network Administrator for more information and proper handeling of your router. Port forwarding will tell the router that all data received via those specific ports, will be redirected to the DVR. For the VMAX960H, you will need to port forward the two following ports:
 - a. Mobile Port: 9010 (Default)
 - b. Web Port: 81 or 82 (Default was 80)
- 6. Visit www.portforward.com for additional information on performing port forwarding on specific router models.
- 7. Visit <u>www.yougetsignal.com</u> to test whether the ports have been properly opened. Please allow up to five (5) minutes for the router to update.

Port Forwarding Tester							
your external address 108.9.143.90							
open port finder							
Remote Address 108.9.143.90 Port Number 80 Check							
Port 80 is open on 108.9.143.90.							

8. Once the router settings have been configured correctly, open an internet explorer page and enter your router's external IP address:DVR's port number (Example: 72.243.193.215:81).

You can also connect to the DVR using Google Chrome by installing the 'IE Tab' add-on

APPENDIX : SPECIFICATION

М	ODEL	DWB-VF9H8	DWB-VF9H16		
1	Photo				
Compress	sion Algorithm	H.264			
HDD	Interface	2EA X	(SATA I / II		
	os	Embe	dded Linux		
Video	Input	8 BNC / 16 BNC			
Video	Looping	8 or 16 x	8 or 16 x Loop out ports		
Vid	eo Mode	NTSC / PA	L Auto Detection		
Display Spe	eed (NTSC/ PAL)	480 / 400 fps @ 960H			
Scr	een Split	1, 4, 9, CAMEO (1ch)	1, 4, 9, 16, CAMEO (1ch)		
Video-Out	Monitor	3ea x Main Monitor (HDMI , Composite, VGA) 1 x Digital Spot out (Full, 4, 9, 16 Mode)			
	Display Resolution	1024x768, 1280x1024,1280x720P,1920x1080P			
Recording	480x240 / 288	240 / 200 fps	480 / 400 fps		
Speed (NTSC/PAL)	960x240 / 288	240 / 200 fps	480 / 400 fps		
(NTSC/PAL)	960x480 / 576	240 / 200 fps	480 / 400 fps		
Recordin	ng Resolution	NTSC : 480x240, 960x240, 960x480 PAL : 480x288, 960x288, 960x576			
Recor	ding Modes	Time-Lapse, Event, Pre-Event, Post-Event, Instant(Panic) Record			
	Speed	x1, x2, x4, x8, x16, x32			
Playback & Search	-	1, 4, 9ch (Multi-Channel Playback)	1, 4, 9 & 16ch (Multi-Channel Playback)		
	Function	Date/Time, Record Table, Calendar, Event preview, Bookmark, Play from Search, System Log, Cameo Search			
Audio Inpu	ut / Output/ MIC	In 8,16 / Out 2 / 1 x MIC			
Alarm Inpu	t / Relay Output	8 x ln / 2 x Relay Out	16 x ln / 2 x Realy Out		
		Virtual Joy-Stick control on screen (by mouse)			
P/T/Z Co	ntrol and Port	RS485 Port 2EA (PTZ, Keyboard Controller, 1xD-Sub 9pin)	RS485 Port 2EA(PTZ, Keyboard Controller, 1 x D-Sub 9pin)		
	LAN	1x10/ 100/ 1000	Mbps Gigabit Ethernet		

MO	DEL	DWB-VF9H8	DWB-VF9H16		
		240/192 fps @ 960*480(576), 480/400 fps @480*240(288)			
Network	Function	Video Dual-Stream (Local Recording & Network Transmission)			
Transmission		Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)			
		Remote & E-Mail Notification with JPEG, Remote System Reboot by Client(ACS&CMS)			
Mobile Dev	ice support	iPhone, iPad, Backberry, Android, 3G mobile			
Remote P	TZ Control	Pan / Tilt / Zoom / Focus / Iris			
	tender Video alizer	1~4Ch up to 900Meter (3,000ft)			
Remote	Software	ACS Client S/W & CMS			
Management	Web (IE)	Live Monitoring, Playback & System Configuration			
Backup	Internal	Bulti-In DVD (Optional)			
Device	External	Local Backup by USB Memory Stick(2ea), Network Backup by CMS Sup			
Advanced	Functions	5x Signal Extender Video Amplifier (Built-in 4Channel) Multi-Language, System Upgrade by USB & Network, Help menu on Major Function, Call Monitor Configuration, Import & Export, & Instant File Backup Warning Alarm for System Over-Temperature			
System C	Operation	IR Remote Controller, USB Mouse, Front Keys			
Ρον	wer	12V x 6.67A D/C			
	emperature umidity	-20~60°C / 20~95% RH			
	mperatureand iidity	5~40°C / 20~80% RH			
Certifi	cation	CE & FCC	C, RoHS		

NOTE The specifications are subject to change without notice