

H.264 HD-SDI 1080P Resolution Digital Video Recorder

User's Manual VER. 2.0

Future of Digital Video Recording at Hand

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 you to keep the original box and packing materials in case of return or 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 areas with high voltage equipment such as a refrigerator.

Do not install or place equipment in areas where the air vents can be obstructed, such as in tight enclosures or small utility closets. 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 a 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

user manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which 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.

	THIS EQUIPMENT IS FOR INDOOR USE, AND ALL THE COMMUNICATION WIRING IS LIMITED TO INDOORS.
CAUTION	DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
CAUTION	RISK OF EXPLOSION IF AN INCORRECT BATTERY TYPE IS USED.

TABLE OF CONTENTS

CHAPTER 1 : DVR USER MANUAL

1. GETTING STARTED	7
1.1 Checking Supplied Items	7
1.2 DVR Features	
1.3 System Startup and Shutdown	9
1.1.1 System Startup	9
1.1.2 System Login	9
1.4 Front Panel	.10
1.5 Rear Panel	.11
1.6 IR Remote Control	.12
2. OPERATION	.13
2.1 Live Display Mode	.13
2.1.1 Channel Selection	
2.1.2 Icons Description	
2.1.3 Toolbar	
2.1.4 Pop-up Menu	. 15
2.2 Freeze Mode	.15
2.3 Digital Zoom	.16
2.4 PTZ Operation	.16
2.4.1Initialize	. 17
2.4.2 Pan/ Tilt	. 17
2.4.3 Zoom/ Focus	. 17
2.4.40SD Menu	. 17
2.4.5 Auto Scan	. 17
2.4.6 Preset	. 17
2.4.7 Tour	. 18
2.4.8 PTZ Exit	
2.4.9 OSD Control Via Coaxial Cable	. 18
2.5 Instant Playback of Recorded Video	.20
2.6 Backup & Instant Backup	
2.6.1 Backup	.21
2.6.2 Instant Backup	
2.6.3 Backup Video Player	
2.7 Search Recording Image	
2.7.1 Calendar Search	
2.7.2 Date & Time Search	
2.7.3 First Data	
2.7.4 Last Data	
2.7.5 System Log	. 25

	2.7.6 Event Log	26
3	3. SETTINGS	27
	3.1 System	28
	3.1.1 System Info	28
	3.1.2 User	30
	3.1.3 Export/ Import	32
	3.1.4 HDD	33
	3.1.5 Factory Default	34
	3.2 DEVICE	35
	3.2.1 Camera	35
	3.2.2 Audio	36
	3.2.3 Sensor	37
	3.2.4 Alarm	37
	3.2.5 Controller	38
	3.2.6 PTZ	39
	3.3 Record	40
	3.3.1 Record Setup	40
	3.3.2 Schedule	42
	3.4 Network	43
	3.4.1Network	43
	3.4.2 DDNS	45
	3.4.3 Notifications	46
	3.4.4 Network Setup for Internal Use	
	3.4.5 Network Setup for External Use	
	3.5 Quick Setup	

CHAPTER 2 : WEB VIEWER

4. WEB VIEWER	51
4.1 Web Live Viewer	
4.2 Web Playback	
4.3 Image Capture	
4.4 Web Backup	
4.5 Web Setup	
4.5.1 System	
4.5.2 User	
4.5.3 Device	
4.5.4 Record	
4.5.5 Network	
4.5.6 Upgrade	
4.5.7 Information	

CHAPTER 3 : CLIENT SOFTWARE USER MANUAL

5. SINGLE SITE CLIENT SOFTWARE MANUAL60

5.1 PC Requirements	60
5.2 Multi-Site Software	
5.3 Install	61
5.4 Uninstall	61
5.5 Basic Operation	62
5.5.1 Network Connection	
5.5.2 Screen Layout for Live Mode	64
5.5.3 Screen Layout for Search Mode	65
5.5.4 PTZ Control Panel	
5.5.5 Calendar Panel	66
5.5.6 Search Panel	67
5.6 Setup	68
5.6.1 General	
5.6.2 Site	69
5.6.3 Event	70
5.6.4 Event Search	70
5.6.5 Record	71
5.6.6 Disk	
5.6.7 Display	73
5.6.8 About	

CHAPTER 4 : MOBILE PHONE SURVEILLANCE APPLICATION

6. MOBILE PHONE SOFTWARE USER GUIDE	75
6.1 iPhone Application Software	
6.1.1 Installation	
6.1.2 How to Connect and View	
6.1.3 How to Search and PTZ Control	
6.2 Android Application Software	
6.2.1 Installation	
6.2.2 How to Connect and View	
6.2.3 How to PTZ Control and Capture	
7. APPENDIX: SPECIFICATIONS	



Chapter 1 DVR USER MANUAL

1. Getting Started

1.1 Checking Supplied Items

Verify you have the following items supplied with your DVR. If any of these items are missing or damaged, notify your vendor immediately. Do not dispose of the packing utilities in case of moving or storage purposes.

Items	Photo	Quantity
Quick Start Guide		1
CD (Manual & Software)		1
Power Cable and Rack Mount Bracket (W/ Screws)	8	1
IR Remote Controller		1
USB Mouse	Ø	1
Rack Mount Bracket (W/ Screws)	and a star	2 (Brackets) 4 (Screws)

1.2 DVR Features

- H.264 Video Compression
- Recording & Playback at 1280x720 or 1920 x 1080
- Full HD Display HDMI Output (1920 x 1080)
- Digital Zoom Function on LIVE & PLAYBACK
- Multi-Channel Audio Recording
- Video Loss and S.M.A.R.T HDD Error Detection
- E-Mail Notification
- DVD-RW Built In
- Free DDNS
- Easy Software Upgrade by USB Port and Network Software
- Instant and Convenient Backup via USB Flash Drive, Network, or DVD-RW
- Watermarked Backup Format and Digital Zoom Function on DVR player
- AVI Backup
- Individual Channel Operation
- Intuitive and Easy GUI Interface
- Remote Client Software
- 4 Sensor Input, 2 Output
- Powerful Mobile Application on iPhone and Android Phone
- Easy and Convenient Setup

1.3 System Startup and Shutdown

1.1.1 System Startup

Make sure all necessary devices are properly connected to the back of the DVR (See section 1.5 REAR PANEL for additional information). Connect the power cord to the power jack on the rear panel of the DVR.

The boot-up screen will display as shown below. Please wait until the boot-up process completes.



When the DVR boots up for the first time, you will be asked to setup the language and date & time for the DVR.

Then, live mode will display.

TROUBLESHOOT	Camera Connection
IROUBLESHOUT	Cameras must be connected to the system before turning on the DVR.
	If a camera is connected to the DVR is in use, the camera's signal will not be detected
	properly. This may result in an abnormal display on live mode & an error message in
	playback mode.
	If this occurs, check the camera's resolution & adjust the resolution settings in the DVR
	for that camera.
	Then, restart the system.

1.1.2 System Login

LOGIN screen is displayed. Select USER (ADMIN/USER1/USER2/USER3), then enter the password.

Default Password: 1111



1.4 Front Panel

Νοτε

Front panel allows the user to operate the DVR without having to use the IR remote or a mouse.

I- Backup (Instant Backup)

In playback mode, the user can press the [I-BACKUP] button on the front keypad to configure both Start and End time. Once the times are set, click the [START] button to start the backup process.



No.	Buttons	Functions	
1	Menu	Display the Setup Menu.	
2	Mode	Change the cameras display Mode between single channel & 4-channel view.	
3	Sequence	Change the display channel automatically when in single channel mode.	
4	PTZ	Control a PTZ camera.	
5	IR Receiver	IR Receiver for Remote controller.	
6	Instant Backup	Start "Instant Backup" to a USB flash drive.	
7	Instant Playback	View video playback. By default, video will be displayed from the last 3 minutes before current time.	
8	Search	Go to search mode.	
9	Panic Record	d Start Emergency Recording.	
10	USB Port (Ver. 2.0) for Mouse Operation, Backup or Firmware Upgrade.		
11	Power	Turn DVR On/Off.	
12	DVD Door Button	Open & Close the DVD's protecting door.	
13	ESC	Exit Menu or back to previous menu.	
14	Directional Arrows	Menu Setup Navigation / Change Display Mode / PTZ Control.	
15	Enter Button	Select Value or Setting.	
16	Jog Shuttle	Fast Forward or Rewind when playback.	
17	LED Indicator Indicate	System Status (from top to bottom): Power, HDD, Record, Network and Backup.	
18	Playback Navigator	Play, Fast Forward, Rewind or pause.	
19	Channel Button	Select Display channel 1,2,3 and 4.	

1.5 Rear Panel



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No.	Buttons		Functions					
1	Video In	Vio	Video input terminal					
2	HDMI Out	19	20X1080 Main I	Monitor			CAI	7
3	VGA		VGA (Video Graphics Array) output terminal. Connects to the PC VGA monitor.			01		
4	Audio In	Fo	ur connectors fo	or audio input.		Ÿ	+	ļ
5	Audio Out	Or	ne connector for	audio output.		0	0	l
6	Ethernet	RJ	45 Network terr	minal		č	ŏ	
7	USB	RJ45 Network terminal USB Terminal for mouse connection, backup and firmware upgrade.		0	۲	۲	ľ	
8	E-STATE		External SATA terminal			0	0	4
		1	RS-485	For PTZ Camera		8	5	Ż
	Tomoth O	2	RS-485	For Keyboard Controller	1	~	~	P
9	Input &	3	Reserved Pin	Currently not in use		8	01	l
	Output	4	Sensor Input	Connect 4 sensors input		Ş	6	
		5	Alarm Output	Connect 1 alarm output		_	Ŧ	
10	Power	DC	C12V input		(2)-		6
11	RS-232C		-232 Connectio bugging.	n terminal for engineering and				

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Т

1.6 IR Remote Control

The IR remote controller allows you to control the DVR without the mouse or front panel buttons. To use IR Remote Controller, the ID of the IR Controller must be the same as the ID of the DVR. Default ID # for DVR and IR Remote Controller is "1".

If you have more than one DVR you can use one IR remote by setting a unique ID for each DVR.

No.	Buttons	Functions	A
Α	Power	Goes to standby mode or turns on	
В	Display	Display single or split screen	E Land
С	F/REW	During playback - Moved video 60 seconds backward. During pause- Moved video one frame backward.	
D	F/ADV	During playback – Moves video 60 seconds forward. During pause – Moves video one frame forward.	
E	Play	Play or pause the footage in playback	
F	REW	Rewind video at different speeds during playback.	
G	FF	Fast forward video at different speeds during playback.	P
Н	Backup	Start backup in live or playback mode.	R R
I	Alarm	Disable alarm operation.	D
J	Setup	Launch SETUP menu.	Construction of the local division of the lo
К	Audio	Mute, Single, MIX for all channels in single or split mode.	
L	SEQ	Start auto sequencing of the screen in full screen mode.	9 9
М	Lock	Lock all of key function.	
N	Record	Start and stop PANIC recording.	0 972 0
0	Search	Go to the search menu.	
Ρ	Arrows	Move Up/ Down/ Left/ Right between display menus.	
Q	Select	Select menu or store setup value.	
R	ID	When using the controller with more than one DVR, press ID and the number corresponding to the DVR's ID.	
S	ESC	During setting - return to previous menu screen. During playback - exit from playback.	
Т	Number pads	select channel ($1 \sim 9$) or enter DVR ID number	
U	PTZ	Call a PTZ menu	

2. Operation

2.1 Live Display Mode

2.1.1 Channel Selection

The images can be seen on real-time by in single channel or 4-channel mode as seen below. To switch from a single-channel view to a multi-channel view and vice versa, choose one of the following options:



[1 Channel]

[4 Channel]

- 1. Using your Remote Control (See section 1.6 IR Remote Control for more information):
 - a. Press the channel number you wish to view in single-channel mode.
 - b. Press the "Select" button to return to multi-channel mode.
 - c. If "Select" is pressed while in multi-channel mode, the DVR will display the last channel seen in single mode.
- 2. Using the USB Mouse:
 - a. Move the mouse's cursor over to the channel you wish to view in single mode.
 - b. Double-click on the screen. The channel selected will be displayed in single-channel mode. You can also right-click to open the pop-up menu (see section 2.1.5 Pop-up Menu) and select Display→ 1Screen.
 - c. To change from single to multi-channel mode, right-click on the screen and select Display→ 4Screens.
- 3. Using the DVR's Front Panel (See section **1.4 Front Panel** for more information):
 - a. Press the channel number you wish to view in single-channel mode from the four buttons at the top of the DVR's front panel.
 - b. Press the "Enter" button to return to multi-channel mode.
 - c. If "Enter" is pressed while in multi-channel mode, the DVR will display the last channel seen in single mode.

Administrator user can set different level of authorization for each user. If a certain user is not allowed to view a certain playback channel, then no image will appear on the display screen. Refer to **3.1.2 User** for more information.

2.1.2 Icons Description

The DVR can be set to different recording modes, identified by an icon on each channel screen.

Icon Sh	own on Upper Right Corner		Icon Shown on Lower Right Side
Ð	Continuous Record	PANIC	Using Emergency Recording
0	Motion Detection Record	PTZ	PTZ control is activated
	Sensor input Record	SEQ	Channels are displayed in Sequence Mode
	Emergency Recording		

2.1.3 Toolbar

Move the mouse cursor to the bottom of the screen in live mode to view the menu bar.



• 🗇	1234	• 💠 🕨	98%	

<Toolbar in Live mode>

	Setup Menu
	Single Screen Mode- Display the last channel viewed in single mode. Multi-Channel mode- Displays all 4 channels, based on user permissions.
•	Freeze Button- Freeze live video
ð	Sequence Display Button
1234	Channel Selection Button
•	Panic Record Button - In emergency recording, the system will follow recording settings.
< ↓ ►	PTZ Control Button - Use the virtual PTZ controller to adjust the Pan/Tilt/Zoom/OSD/Tour/Auto-scan/Preset of a PTZ camera.
•	Instant Playback - Playback the most recent video clip recorded
98%	HDD usage. If it shows 98%, 98% of the HDD space has been used for recording

Νοτε

If you do not see any icon on the top right corner of the live screen mode; it means that the system is not recording. In this case, you need to check the [RECORD] settings in the main setup menu. See section **3.3 RECORD** for more information.

2.1.4 Pop-up Menu

Right clicking with your mouse on the screen will open the pop-up menu. This menu includes the main features for easy access.



DISPLAY	Select from Single Channel mode or multi-channel mode.
SEQUENCE S E Q	The display screen will display all channels one after another in a sequence (Available on single-screen mode).
AUDIO	Hear the audio from the camera through a speaker connected to DVR. Audio Mute, 1 channel or 4 channels.
ALARM	Enable or Disable "Alarm Out" function.
FREEZE	Live video pause in a still image (Refer to 2.2 Freeze).
PTZ	Enable PTZ control. Available only in single channel mode and only when camera is setup as PTZ. (Refer to 2.4 PTZ).
PANIC RECORD	Trigger Emergency Recording (Refer to 2.1.3 Toolbar).
INSTANT PLAYBACK	Play the latest video recorded (Refer to 2.5 Instant Playback).
SEARCH	Go to Search mode. (Refer to 2.7 Search).
BACKUP	Save recorded video to an external USB flash drive. (Refer to 2.6 Backup & Instant Backup).
MENU	Go to the main menu to set up the DVR. (Refer to 3.0 Setting).
SYSTEM SHUTDOWN	Turn off the DVR. In order to turn it off, the password must be entered.

2.2 Freeze Mode

Freeze mode turns live video display to a still image. The date/ time information does not, the system clock continues running. To turn freeze mode on, click the right button on the mouse when viewing a live image and select the [FREEZE] option on the pop-up menu. You can also click on the

button at the menu bar.

To resume the live view, press [FREEZE] again, or click the right button on the mouse and select the [FREEZE] option.

2.3 Digital Zoom

VMAX HD supports Digital Zoom feature during live and playback mode

- 1. Double click the target channel.
- 2. Click the left button of the mouse and drag to make rectangular shape.
- 3. The smaller the rectangle you draw, the bigger the zoom.
- 4. To go back to full-size screen, click anywhere on the screen.



2.4 PTZ Operation

User can go to PTZ mode by selecting the the button on the menu bar located on the bottom of the main screen (Feature available in single channel mode). You can also access the PTZ control from the DVR's front panel PTZ button.

In PTZ mode, click the right button on the mouse to display the pop-up menu for the PTZ function as seen in the image below.



To indicate you are in PTZ mode, the PTZ icon will appear at the bottom of the screen.

If you wish to switch from one PTZ channel to a new one, select INITIALIZE on the new channel to adjust the PTZ control to the settings set for the current channel.

To setup your PTZ camera, please see section **3.2 Device** for more information.

NOTE If a PTZ camera is not connected or not setup properly in the setup menu, this feature will be disabled.

2.4.1 INITIALIZE

If you have multiple PTZ cameras connected to your VMAX HD, use the INITIALIZE command when you switch from one PTZ channel to the next. This will indicate to the DVR that the channel has been changed and the DVR will automatically update itself to match the PTZ settings of the current channel.

2.4.2 Pan/ Tilt



If selected, this virtual controller will allow full control of the camera's pan and tilt. Use this to adjust the camera's view from the DVR.

2.4.3 Zoom/ Focus



If selected, this virtual controller will allow full control of the camera's zoom and focus. Use this to adjust the camera's focus and optically zoom in and out of the camera's view.

2.4.4 OSD Menu

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If selected, this virtual controller will allow full control of the camera's On Screen Display (OSD). Use this to control the camera's complete setup and configuration remotely from the DVR.

2.4.5 Auto Scan

2	3	4	5
7	8	g.	0

Auto Scan enables you to start and stop scan patterns set in the camera. When selected, a numeric pad will appear on the screen. Use it to select the auto scan you want to activate and select START. To stop an Auto Scan, click on the STOP button.

Νοτε

Auto Scan setup and configuration must be done via the PTZ camera's setup menu. Please consult your camera's manual for more information.

2.4.6 Preset



The Preset option enables you to setup and go to a specific preset. A preset is any unique position, focus and zoom set by the user for a specific purpose. When selected, a numeric pad will appear on the screen. Use it to select the preset number you want to modify or view. To set a specific preset, enter the preset's number. Then, move the PTZ camera to the desired position and click on SET. To view a preset, enter the preset's number and select GO. Make sure the preset you select has been set

before selecting it.

Νοτε

The number of presets varies for each PTZ camera based on make and model. The VMAX HD supports a maximum of 255 presets. Please consult your PTZ camera's manual for more information.

2.4.7 Tour



The Tour option enables you to start and stop a specific tour. A Tour is a function that enables the PTZ camera to move between 2 predetermined presets. To start a Tour, use the numeric pad to select a specific tour. Then click START to get the camera to start following the tour. To stop the camera's movement, click STOP. Tour setup requires at least two (2) presets to be available.

NOTE Tour setup and configuration must be done via the PTZ camera's setup menu. Please consult your camera's manual for more information.

2.4.8 PTZ Exit

To exit PTZ control in the DVR, click on PTZ Exit.

2.4.9 OSD Control Via Coaxial Cable

The VMAX HD is equipped with the option of controlling the OSD menu of Digital Watchdog's HD-SDI Cameras with no need for additional cabling. This feature makes installation and camera configuration simpler than ever before.

Using the Coaxial cable as a two-way data transfer cable, the DVR can receive image from the camera and send back control commands at the same time.

- 1. To setup the DVR for OSD Remote Control (See Section **3.2.6 PTZ** for more information):
 - a. Go to the DVR's Menu by following one of the following options:
 - i. Right-click anywhere on the screen and select "Menu".
 - ii. Press the Menu button on the front panel of the DVR.
 - iii. Press the Setup button in the IR Remote Control.
 - b. In the DVR's menu, go to Device \rightarrow PTZ.
 - c. Select the channel you wish to setup. The screen behind the menu will display live image from the channel you have selected.
 - d. Select "FASTRAX II COAX" from the Camera Protocol Drop-Down menu.
 - e. Leave speed as default.
 - f. Set the ID in the DVR's setup menu to match the camera's ID. The camera's ID can be found in the camera's OSD menu, under "Property".

REMEMBERI If you have more than one of Digital Watchdog's HD-SDI cameras you wish to setup, you will have to assign each camera a different ID number. Then, match that ID number with the ID section in the DVR's Setup menu (Device→ PTZ).

- 2. To Activate OSD Remote Control:
 - a. In Live mode, select a single camera and switch to single-channel mode by following one of the following options:
 - i. Double-click on the view from the selected channel

- ii. Press the channel number in the top right corner of the DVR's Front Panel/
- iii. Press the channel number using the remote control's numeric pad.
- b. Right-click anywhere on the screen and select "PTZ". The PTZ icon will appear at the bottom right of the screen.

Νοτε	If the camera has not been properly setup in the DVR's Setup menu, the PTZ option will not be displayed in the Pop-Up Menu.
с.	Right- Click on the screen again and select OSD.

- er highe ellek off the server again and select obbi
- d. The camera's OSD menu will appear on the left side of the screen.
- e. The DVR's OSD Virtual controller will appear on the bottom right side of the screen.
- f. Using the virtual controller's arrows, move up and down the camera's menu options. Move left and right to adjust any available variables in the camera's setup menu.
- g. Click on "SEL" to select a category or enter a sub-menu.
- h. Click on "ESC" to exit a sub-menu into the camera's main menu.
- 3. To Exit the Camera's OSD Menu:
 - a. Using the virtual controller, go to the camera's 9. EXIT option and click "SEL".
 - b. Select "YES Save" to save any changes made to the camera's configuration.
 - c. Select "NO Save" to cancel any changes and exit the camera's menu.

2.5 Instant Playback of Recorded Video

To go to Playback mode, select one of the following options:

Click the button in the virtual menu bar or, right click on the screen and select "INSTANT PLAYBACK" from the pop-up menu.



[Playback Screen & Tool Bar]

Go to Chanı	nel	The single channel mode, select a specific channel to view.
Screen Disp	lay	Select from single and multi-channel view.
Search Bar		The search bar will display by default 24 hours of recorded data from 3 minutes before current time. Times when there is data recorded will be marked in orange. Using the mouse, you can click on any portion of the search bar to view video from that time automatically
	-	Rewind. Select from 1x, 2x, 4x, 8x, 16x, 32x speed
	-	Frame-by-Frame Rewind
Playback		Pause video
Controllers	•	Play Video
		Frame-by-Frame Fast Forward
	*	Fast Forward. Select from 2x, 4x, 8x, 16x, 32x speed
Search Opti	ons 🔎	Select from Calendar Search, Date & Time Search, First or Last Data System Log Search or Event Log Search (See section 2.7 Search Recording Image for more information).
Calendar Se	arch 🐻	Use this to search video for a specific date and time. (Dates available may vary depending on HDD size and settings. Please see 3.1.4 HDD for more information)
Remote Bac	kup 耳	Remote Backup video to an external storage device (See section 2.6.1 Backup for more information).
Instant Bacl	kup 🔁	Perform Quick Backup during Playback(See section 2.6.2 Instant Backup for more information).
Close Buttor	ו 💌	Close the playback mode and return to Live video.

2.6 Backup & Instant Backup

Connect an appropriate USB flash drive or insert an empty DVD to the DVD-RW and press to start the instant playback, or to start the remote backup.



2.6.1 Backup

You can backup video from your DVR to an external storage device.

- 1. Click 📭 button on the toolbar. The following screen will be shown.
- 2. Select what cameras you want to backup.
- 3. Set the beginning date & time in [FROM].
- 4. Set the ending date & time in [TO].
- 5. Select the external memory device the backup file will be save to.
- 6. Click [FORM] and select the format of the file:
 - a. Screen: capture the live screen in a still image.
 - b. Video (NSF): Backup duration is up to 24 hours and it is watermarked.
 - c. Video (AVI): Backup duration is up to 1 hour.
- 7. Click [BACKUP] to start the backup process
- 8. The progress of the backup will be displayed in the progress bar.

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DEVCE	536 1701
PORM	Sext Any
-	1005

NOTE DVD option for backup device is only displayed when DVD writer is built-in to the DVR.

CAMERA	• 1 • 2 • 3 • 4
FIRM	02/12/2012 15:00:00
10	02/12/2012 16:00:00
DEVICE	USB STICK
FORM	
ROGELSS	1000 (100)
	000000

2.6.2 Instant Backup

Click Distance Click on the toolbar. The system will be in instant backup mode. Click on the backup icon again to indicate the end time of the instant backup file.

The INSTANT BACKUP screen will pop-up. Select format: NSF (Watermarked File Format) or AVI. Then, click NEXT and select the channels to back up. Press the START button to begin backing up the file.



2.6.3 Backup Video Player

[NSF]

When backing up video in NSF format, VMAX HD player will be saved with the video file. User can find it in the [DvrPlayer] folder in the USB flash drive. This function allows the user to play the video clip without having to install additional software on the computer.

To view a backup viedo in the NSF player:

- 1. Open the DVDPlayer
- 2. Open the folder where the playback video is located.
- 3. Using your computer mouse, click and hold on the file you want to view and drag it to the display screen of the DVDPlayer.

In 1channel full screen mode, Digital Zoom In/Out function is activated. Control the zoom in/out by scrolling the mouse's wheel forward/backwards, respectively.

	-		200.0
13-1	12+1	126.5	2944
12+1	1918	199115	29.10
oir 13			ant ca

< HD Player for NSF >

[AVI]

When archiving the video clip in AVI, it can be played with any general multimedia player.

2.7 Search Recording Image

There are four (4) ways to access the search features on the VMAX HD

- 1. Right click on the screen and select SEARCH in the pop-up menu.
- 2. Press the SEARCH button on the front panel.
- 3. Press the SEARCH button on the IR Remote Controller.
- 4. If in Playback mode, click on the Search options button \square in the menu bar.

2.7.1 Calendar Search

The calendar displays dates with recorded video data in gray. Select the month and year by clicking the right and left arrow buttons. Then select the desired dates. The selected date is highlighted in orange. The recorded data for the selected date will appear.

CALENDA	R SEARCH					
MONTH	FEBRUAR	· · · · · ·	YEAR 201	2		0
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13		15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			
CH 1 CH 2 CH 3 CH 4	0 3		9 12	15 1		9 24
	[ок		ANCEL]	

Once the recorded video data of the selected date appears, user can adjust the vertical search line to the time you want to view by clicking with the mouse on a specific part of the search line. User can select specific minutes by using the clock button above the search line. Click [OK] to play the selected video.

The colors of the time bar are different, depending on the recording data:

No Color-No Recording.

Orange Color - Video recorded available

Green Color- Video recorded with Audio available

NOTE If you know the exact Date & Time you wish to playback, it's recommended to use the "Date & Time" Search tool. If you are not sure about the specific date & time you are searching for, it is recommended to use the "Calendar" Search tool.

2.7.2 Date/Time Search

The calendar displays dates with recorded video data in gray color. The month and year by clicking on the arrows in the top right side of the window. Then select the desired dates. The selected date will be highlighted with orange color. Enter the desired time and click OK button to start the play. By default, the hours in the time bar will be displayed every three hours.

MONTH F	EBRUARY	Y	EAR 2012		0	\bigcirc
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			
TIME (HOL	JR/MIN/SE	C)	18 _	: 12 /	: 0 /	1

2.7.3 First Data

This search option will display playback video of the oldest available recording.

2.7.4 Last Data

This search option will display playback video of the latest available recording.

2.7.5 System Log

The System Log Search finds particular system log information, quickly and easily.

The System Log Report can be save to a USB memory device as a .txt file.

- 1. Select a Date.
- 2. Select type of data you want to include in the log report.
 - a. System: includes system reboot, errors and user access to the DVR.
 - b. Setup: includes any setup changes.
 - c. Panic Recording: when panic recording was enabled.
 - d. Video: video loss.
 - e. All: include all data.
- 3. Click Search to apply your selections to the log report.
- 4. To export the system log report to a USB drive, select the memory device from the list, and click EXPORT.
- 5. Once export is completed, the user can find a folder titled with the exported date created in the USB thumb drive (There is [system.log] file stored in the folder.)

DATE	02/16/2012 📕 SE	ARCH 1/1
• AL	L • SYSTEM • SETUP	PANIC RECORD VIDEO
NO		EVENTS
0	02/16/2012 10:38:33	System Start
1	02/16/2012 10:38:36	Video In : CAM1
2	02/16/2012 10:38:36	Video Loss : CAM2
3	02/16/2012 10:38:36	Video Loss : CAM3
4	02/16/2012 10:38:36	Video Loss : CAM4
5	02/16/2012 10:40:28	Setup : Enter
6	02/16/2012 10:40:43	Setup Device : changed
7	02/16/2012 10:40:43	Setup : Exit
8	02/16/2012 10:40:52	Video Loss : CAM1
9	02/16/2012 10:44:02	Setup : Enter
10	02/16/2012 10:45:01	Setup : Exit
11	02/16/2012 11:35:43	Video In · CAM1
USB :	STICK	EXPORT

2.7.6 Event Log

The Event Log Search finds particular events, quickly and easily.

- 1. Select a Date.
- 2. Select type of data you want to include in the log report.
 - a. Motion: Video recorded when motion was detected.
 - b. Sensor: Video recorded when a sensor was activated.
 - c. Continuous: Video recorded continuously.
 - d. Instant Recording: Video recorded when instant (panic) recording was enabled.
 - e. All: include all data.
- 3. Click Search to apply your selections to the log report.
- 4. To export the system log report to a USB drive, select the memory device from the list, and click EXPORT.
- 5. Once export is completed, the user can find a folder titled with the exported date created in the USB thumb drive (There is [system.log] file stored in the folder).

	E 02/36/2012 5 58 L • MOTON • SENSOR	CONTINUOUS +	NGTINIT RECORD []]
ιā.	DATE/TIME	EVENTS	
2	02/18/2012 10:38:36	CAMI CONTINUOU	\$
£.	02/18/2012 11:35:43	CAMS CONTINUOU	5
2	02/36/2012 11:38:06	CAML INSTANT RE	CORD
3	02/18/2012 11:37:58	CAMIL CONTINUOUS	5
4	02/16/2012 12:00:01	CAME CONTINUOUS	5
5	02/18/2012 13:00:01	CAMIL CONTINUOUS	5
6	02/18/2012 14:00:01	CAMI CONTINUOU	5
7	02/18/2012 15:09:01	CAMI CONTINUOU	5
	02/18/2012 16:00:01	CAMI, CONTINUOU	5
Ð	10:00 TE 5200/88/20	CAMS CONTINUOU	5
10	02/18/2012 18:00:01	CAMI CONTINUOU	5
ice.	STICK.	1	EXPORT

Νοτε

If there is no alarm log even after the alarm input setting has been made, please check the alarm connection port of the DVR rear panel.

Some Event and/or System Log data will be displayed in more than one page. To view the next page of data, click the arrow buttons in the top right corner of the window.

3. Settings

TIP

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

There are several ways to access the DVR's setup menu:

- 1. Right click on the screen and select MENU.
- 2. Click on the menu button in the virtual menu bar.
- 3. Press setup in the IR remote controller.
- 4. Press the menu button in the DVR's front panel.

Each Setup menu includes a [HELP] button for instant help on main features and settings. If you need more information or clarification, click on the Help button for more information.



[MENU]

If you remain in the menu screen without operation for 5minutes, the DVR automatically returns to live display mode.

Main Menu	Sub Menu
	SYSTEM INFO
	USER
SYSTEM	EXPORT/IMPORT
	HDD
	DEFAULT
	CAMERA
	AUDIO
DEVICE	SENSOR
DEVICE	ALARM
	CONTROLLER
	PTZ
RECORD	RECORD SETUP
RECORD	SCHEDULE
	NETWORK
NETWORK	DDNS
	NOTIFICATIONS
QUICK SETUP	QUICK SETUP

3.1 System

The SYSTEM Setup menu allows you to view the DVR's general information, modify user access to the DVR, export and import settings, manage the DVR's HDDs or set the DVR to its factory default settings.



3.1.1 System Info

	SITE NAME		OVR		
2	DATE/TIME YYY	/MM/DD			
()	LANGUAGE ENG	LISH			-
•	REMOTE ID D				1
()	VIDEO SKINAL		0p30 / CH2: /DE0 / CH4:		
0	IP ADDRESS		192 168 1 2		
0	MAC ADDRESS	00:	02 69 06 33	A3	- U.
	KEY TONE OFF				_
9 VIDEO	OUTPUT (HDMI/VGA) 128	0 x 720p			-
10	F/W VERSION	Ver 3.	4.11_04/10/	2012	
(1)	+ SYSTEM UPGRADE				19

1. SITE NAME

Set DVR ID using the mouse or the control button on the remote control. Press OK to apply the DVR ID.

2. DATE/TIME

Set DVR date & time using the mouse or the control button on the remote control. Press OK to apply changes.



Select DAYLIGHT SAVING and select the appropriate daylight saving time zone. The options are:

- OFF: Daylight saving is turned off.
- USA: Applies the USA daylight saving time.
- EU: Applies the EU daylight saving time.
- OTHERS: If the time zone is neither USA nor EU, set the date and time of the daylight saving period.

CAUTION

If using OTHER daylight savings, do not set the start time to 23:00 for DLS. DLS cannot be applied if the date of BEGIN and END is the same.

3. LANGUAGE

Select the display language.

4. **REMOTE ID**

Select an ID of remote control.

- Select ID number.
- Press the same number as ID set in DVR on the remote.

5. VIDEO SIGNAL

Shows the video resolution of each camera connected to DVR.

6. IP ADDRESS

Shows the current network address of DVR.

7. MAC ADDRESS

Shows the DVR's unique Mac address.

8. KEY TONE

Enable or Disable the key tone for button operation on the front or IR remote controller.

9. VIDEO OUTPUT(HDMI/VGA)

Select the Video output resolution from the following options:

- 1280x720p/1920x1080i/1920x1080p/1280x720p(DVI)/1920x1080i(DVI)/1920x108
 0(DVI)
- DVI (Digital Visual Interface) is for monitors that use DVI signal format.

10. F/W VERSION

Shows the current firmware version installed on the DVR.

11. SYSTEM UPGRADE

Users can easily upgrade the DVR via USB or Network (Remote Upgrade).

- a. Create a new folder named "upgrade" in the USB flash drive root directory.
- b. Copy the firmware upgrade files to that folder.

- c. Plug in the USB flash drive on the front panel.
- d. Select SYSTEM UPGRADE.
- e. Select 'SCAN.' The DVR will automatically begin the upgrade process. The progress of the upgrade will be displayed in the percentage bar.
- f. When Upgrade is complete, system will reboot to apply the new upgrade.

MODEL NAME VMAXHD4 CURRENT SOFTWARE Ver 3.4.8_02/09/2012	MODEL NAME VMAXHD4 CURRENT SOFTWARE Ver.3,4,8_02/09/2012
	USB CHECK FOUND USB MOUNT OK FILE CHECK logo_dw_3.0.img
0%	
SCAN CANCEL	UPGRADE CANCEL

3.1.2 User

SYSTEM INFORMATION	USER EX	PORT / IMPORT	HDD DEFAUL	
PERMISSIONS				
	SETUP	PLAYBACK	PTZ	NETWORK
PASSWORD CHECK		۲	۲	۲
ADMIN	•	•	•	•
USER1	۲	۲	•	۲
USER2	۲	۲	۲	۲
		0	۲	
USER3	۲	۲	•	•
USER3 SELECT CHANNELS FOR	PLAYBACK PERMIS	SIONS		
SELECT CHANNELS FOR	PLAYBACK PERMIS	SIONS CH2	СНЗ	CH4
	PLAYBACK PERMIS	SIONS		CH4
SELECT CHANNELS FOR	PLAYBACK PERMIS CH1	SIONS CH2	СНЗ	CH4
SELECT CHANNELS FOR ADMIN USER1	PLAYBACK PERMIS CH1 •	SIONS CH2 O	СН3 •	CH4
SELECT CHANNELS FOR ADMIN USER1 USER2 USER3	PLAYBACK PERMIS CH1 O O	SIONS CH2 O	CH3 • •	CH4 • •

The user setup menu allows administrator to control different users' access to the DVR.

1. **PERMISSIONS**

Admin's permissions will appear in gray, indicating it cannot be modified. Only the Admin will have access to the menu.

a. PASSWORD CHECK: Check the boxes next to each user to enable or disable their access to specific features and to specific channels.

Selected Checkbox: The DVR will ask for a password when the function is selected for all users.

- b. Blank Checkbox: The DVR will not ask for a password when the function is selected for all users.
- c. SETUP: Enable/Disable of access to Setup
- d. PLAYBACK: Enable/Disable of access to Playback
- e. PTZ: Enable/Disable of access to PTZ Control
- f. NETWORK: Enable/Disable of access to Network

2. SELECT CHANNELS FOR PLAYBACK PERMISSIONS

Admin's Channel Access will be in gray, indicating it cannot be modified.

- a. Set authority level of playback on each user.
- b. Checked box: authorized to playback.
- c. Blank check box: No authority.

3. USER PASSWORD

Options are ADMIN, USER1, USER2 and USER3.

- a. Select USER PASSWORD using the mouse or the control button on the remote control and press SEL button.
- b. Select the user you want to modify and enter the current password.
- c. Enter a new password and confirm password
- d. Select OK. Then the message "MATCH PASSWORD" will be displayed.
 - i. <u>The factory default password for all users is "1111"</u>.
 - ii. The password input is available up to 8 digits.

LIGER			Cume	ENT PA	ssivol	10							
USER	ADMIN 🗵												
CURRENT		E											
NEW		WIT											
CONFIRM										ACHINE	i I	1	103
		SPACE								CLEM			
	OK CANCEL										ØK	c	ANCEL

Νοτε	Each DVR can have up to 4 users, including the Administrator.
NOIL	It is highly recommended to assign a new password to protect the system.

3.1.3 Export/Import

Users can copy and paste the system configuration values in this menu.

- 1. **EXPORT SETUP TO USB** enables user to copy the settings for the DVR to any USB memory devices.
 - a. Click Export.
 - b. A warning window will appear. If you wish to continue, click OK.
 - c. The DVR will scan for the USB.
 - d. If a proper USB is connected to the DVR, a 'Configuration Success' message will appear.
- 2. **IMPORT SETUP FROM USB** enables user to recall the settings saved from other systems using CD/DVD/USB memory devices. During the import process, make sure that the firmware version of source DVR is the same as the destination DVR.
 - a. Click Import.
 - b. A warning window will appear. If you wish to continue, click OK.
 - c. The DVR will ask if you would like to save the imported settings. If yes, click OK.
 - d. When the import process is complete, the DVR will request to remove the USB before rebooting.
 - e. System will reboot to apply the imported settings.



3.1.4 HDD

[HDD] tab displays the information of HDD that is mounted on the VMAXHD.

- 1. [FORMAT] Formats the entire HDD installed in the DVR.
- 2. [HEALTH INFO] Displays the information of HDD.
- 3. [HDD INFO] Displays the information of HDD status.

8		•	i č	6	¢	<u>م</u> نځ
SYSTEM INFO	ORMATION	USER	EXPORT / IM	PORT HDD	DEFAULT	
	DISK MOI	DEL NAME	SIZE	TEMPERATURE	POWER ON TIME	HEALTH
HDD 1						
HDD 2	ST316	0813AS	160 GB	82 F (28 C)	2233 HOUR(S)	GOOD
HDD 3						
HDD 4						
HDD 5						
HDD 6						
HDD 7						
HDD 8					2	3
				FORMAT	HEALTH INFO	HDD INFO
		VERWRITE ON				2
	5 RECORD			🛛 🚺 LIMIT D	AYS 10 DAY(S)	1
G	TEMPERAT	URE LIMIT 140) Fahrenheit (6	0 Celsius)		2
	8	ALARM ON		🔄 🧿 BUZ	ZER ON	1
				HELP	APPLY	CANCEL

4. OVERWRITE

When enabled, the DVR will continue recording and overwrite the oldest existing recorded data once the hard drive is full. When disabled, the recording will stop once the hard drive is full.

- 5. RECORDING LIMIT Enable/disable recording limit.
- 6. LIMIT DAYS

Set the recording limit days (1- 90days). If the RECORDING LIMIT DAYS are set to 1, data recorded will be overwritten after 24 hours.

7. TEMPERATURE LIMIT

Set the specific temperature of HDD to prevent HDD failure in advance. Normal temperatures are between 30 to 45 degrees Celsius.

- 8. ALARM Enable/disable the alarm in case the temperature is over the limit.
- 9. BUZZER

Enable/disable the buzzer in case the temperature is over the limit.

3.1.5 Factory Default

Νοτε

Users can set the system back to factory default configuration.

If you select to return the DVR to its factory default settings, the system will reboot to make sure changes have been applied.

_	8				06		¢		۵¢
SYSTE	EM INFORMATIO	N US	ER	EXPORT	/ IMPORT	HDD	DEFAUL	r	
					WARNING				
	"FAC	TORY DEFAU	ULT" ENAE	BLES YOU	J TO RETURN	THE SYSTE	M'S CONFIGL	IRATION	
	1	TO THEIR OR	IGINAL SE	ETTINGS	AS THEY WE	RE SET FRO	M THE FACTO	RY.	
	IF YOU SELEC	CT FACTORY	DEFAULT	, YOU WI	LL LOSE ALL	YOUR SETT	INGS IN THE	SYSTEM S	SETUP.
				FACT	ORY DEFAU	LT			
							APPLY		CANCEL
							Arrel		GANGEL

Once you click the [FACTORY DEFAULT] button and enter the admin password, previous configuration values may be deleted. The system settings will be set to factory defaults, but the recorded video data will not be erased.

3.2 DEVICE

The Device setup menu allows the administrator to configure the Camera, Audio, Sensor, Alarm, Controller and PTZ.



3.2.1 Camera

The [CAMERA] tab enables user to change camera settings. Users can change Title, Covert and Motion Area Setting for each camera.

8	06		¢ (- 0 10
CAMERA AUDIO SENSOR	ALARM	CONTROLLER	PTZ	
	MERA CH1			
CAMERA		CH1		
c	OVERT OFF			1
MOTION	ZONE FULL ZONE			7
MOTION ZONE	SETUP			
MOTION SENS				2
		HELP	APPLY	CANCEL

- 1. Select a **CAMERA** from the drop down menu.
- 2. Using the virtual keyboard, modify the CAMERA'S NAME (default is Channels' number).
- 3. **COVERT**: This function, also called "hidden camera," hides the camera display as if there were no camera recording. Covert applies to both Live and Playback View.
- 4. **MOTION ZONE**: Select Full (the entire camera's view) or Partial zone. Default motion detection zone is set to full.
- 5. **MOTION ZONE SETUP**: You can setup only part of the screen to motion detection. This option is enabled only if Motion Zone is set to Partial.

- a. Enter the motion zone setup.
- b. The motion zone setup grid will appear on the camera's display.
- c. Select the motion detection area by clicking on the desired area of the camera's view. You can also click on the screen and hold, dragging the mouse to select a large area.
- d. Areas set to motion detection will be marked in green.



- f. Click APPLY to save all changes.
- 6. **MOTION SENSITIVITY**: Select the level of sensitivity the camera will have to motion. Select from 1~9, 1- being the lowest sensitivity and 9- highest sensitivity.

3.2.2 Audio

Users can enable/disable the audio input of each channel and output during live display.

- 1. Make sure all cables are properly connected to the back of the DVR (See 1.5 Rear Panel for more information).
- 2. Select the channel you want to enable for audio recording and turn Audio ON.
- 3. If applicable, select Apply All to enable audio recording on all channels (to make sure the DVR records on audio mode, please see section **3.3 Record** for more information).
- 4. Click APPLY to save all changes.

5				8		\$	1
CAMERA	AUDIO	SENSOR	AL SPIN	CONTR	ALLER .	PTZ	
		DUM	E CHI				
			NC ON				 -
			-		KPPUT A	¥1.	 -
			-				 -
3.2.3 Sensor

The VMAX HD supports four (4) sensor connectors. Select from OFF, Normally Open [N.O], and Normally Closed [N.C].

- 1. Make sure all cables are properly connected to the back of the DVR (See **1.5 Rear Panel** for more information).
- 2. Select the sensor you want to set or modify.
- 3. Select the type connection: Normal Open [N.O], Normal Closed [N.C]
- 4. Click APPLY to save all changes.

SENSOR 1		
TYPE NORMA	L OFEN	1
		 CMCD.

3.2.4 Alarm

If enabled, [ALARM] records only when motion detection is triggered within the defined motion area.

- 1. **ALARM-OUT**: One Alarm-out available
- 2. **SENSOR IN**: Activate alarm when the sensors selected are activated. Select from 1 to 4.
- 3. **MOTION ON**: Activate alarm when the Camera motion detection is triggered. Select On/ Off to enable or disable each channel's motion detection.

					¢	-	-
CAMERA AUDIO	SINSOR	ALARM	CONTR	THE R. LEW	#12		
A						_	
	ALARM OUT	Market Street				-	
2	SENSOR IN	1	12	10	14	-	
3	MOTION OR	-	1-	-	-		
	NICEO LOSS ON	CHI	-	JE-	1-		
	ALARM DURATION	5 580000	100			1	
.	ETHOR ALARM	OFF				-	
				-	2000		- STATE
				HELP	APPL		CANCEL

- 4. VIDEO LOSS ON: Activate alarm when there is video loss on each channel (1-4).
- 5. **ALARM DURATION**: Set alarm duration from 5~ 60 seconds.
- 6. **ERROR ALARM**: Enable or disable the alarm for DVR errors. Select from HDD ERROR, VIDEO LOSS, ALL, OFF.

3.2.5 Controller

If a Joystick controller is used, select a controller protocol from Controller menu. Set SPEED (Baud Rate) and ID number.

To setup a joystick controller:

- 1. Connect an RS-485 cable from the controller to the back of the DVR (See section **1.5 Rear Panel** for more information).
- 2. In the DVR, go to Menu \rightarrow Device \rightarrow Controller.
- 3. Select the protocol used by your controller from the drop-down list.
- 4. Setup the corresponding speed. Select from 19200, 14400, 9600, 4800, or 2400 Baud-rate.
- 5. Select the matching ID of the controller from the drop-down list.

ъ	_	1		8	ø	
CAMERA	AUDIO	SENSOR	ALARM	CONTROLLER	PTZ	
	CONTR	OLLER PROTO				
			ED 9600 ID 0			
			in la			
				HEL		UPLY CANDE

Νοτε

The Protocol. Speed & ID set in the DVR must match the same settings in the controller.

3.2.6 PTZ

If you wish to connect a PTZ camera to the VMAX HD, use this setup menu to connect it.

To setup a PTZ Camera:

- 1. Connect an RS-485 cable from the camera's board to the back of the DVR (See section **1.5 Rear Panel** for more information).
- 2. In the DVR, go to Menu \rightarrow Device \rightarrow PTZ.
- 3. Select the Channel you want to setup as a PTZ camera.
- 4. Select the camera's protocol from the drop-down list.
- 5. Setup the corresponding speed. Select from 19200, 14400, 9600, 4800, or 2400 Baudrate.
- 6. Select the matching ID of the PTZ Camera from the drop-down list. Select from 0~63.

- ·	D 0 4
CAMPAL ALONO MEASOR	ALARM CONTROLLER PTZ
OWNEL	lon d
	PELCO D-PROTOCOL
SPEED	
	2
	HELP APPLY CANCEL

TRAURI FOUGAT	Camera Connection
TROUBLESHOOT	If you cannot control your PTZ camera, try the following:
	1. Check if the protocol set in the DVR is the same as used in the camera.
	2. Check if the baud-rate set in the DVR is the same as used in the camera and that it is
	in accordance with the assigned value for that PTZ protocol.
	3. Check if the address of the camera is correct.
	4. Check if the wiring is correct and the wires are not damaged.
	If the problem persists, consult your PTZ camera's manual for additional information.

3.3 Record

Configure various record settings such as Continuous, Motion, Sensor and Schedule for each individual camera channel.



3.3.1 Record Setup

Configure record settings such as Resolution, FPS, Quality, Pre/Post Record and Record Type (Continuous, Motion, Schedule and Sensor). Configure for each channel or use the **[APPLY ALL]** button to apply the same settings to all cameras.

8		06	۲		<u></u>
RECORD SETUP	SCHEDULE				
(CHANNEL	CH1			2
2	RESOLUTION	1920 × 1080			7
	3 FRAME RATE	15 FPS			2
(4).	QUALITY	LEVEL 5(H)			V
	5 RECORDING	MOTION			7
6	SENSOR RECORDING			<u> </u>	1
		20 MINUTE(S)			4
B	POST EVENT RECORD	60 SECOND(S)			_
			APPLY ALL		
		_			
			HELP	APPLY	CANCEL

1. CHANNEL

Select a channel from CH1 to CH4 to configure the recording setup.

2. RESOLUTION

Select a specific resolution.

1280x720 (HD) / 640x360 (D1) / 1920x1080 (FULL HD) / 1920x540 (Half of FULL HD). The higher the resolution, the better the image quality will be. However, it will also increase the video size.

Νοτε

In case 1920x1080 and 1920x540 is not shown on RESOLUTION, please check the resolution of CAMERA first. Then, follow the procedure below:

- Change the resolution of camera to 1920x1080.
- Restart the DVR and check RESOLUTION on RECORD.

3. FRAME RATE

Select the frame rate (1FPS ~ 30FPS).

Recommended frame rate is **15FPS per channel for 1920x1080 resolution**. The higher the FPS, the better the image quality will be. However, it will also increase the video size.

4. QUALITY

Select the video quality from LEVEL1 (LOW) to LEVEL5 (HIGH). The higher the quality, the better the image will be. However, it will also increase the video size.

5. RECORDING

Select the recording mode (Continuous / Motion / Schedule / Sensor) Before setting a channel to a specific recording mode, make sure it is properly setup. For Motion setup, see section **3.2.1 Camera** for more information. For Schedule setup, see section **3.3.2 Schedule** for more information. For Sensor setup, see section **3.2.3 Sensor** for more information.

6. SENSOR RECORDING

If Sensor recording mode is selected, select which sensors will activate recording.

7. PRE RECORD

Enable/disable pre-event recording. Select from 15 Seconds up to 20 minutes.

8. POST EVENT RECORD

Set the post event recording time duration for the specified channel. Select from 10 seconds up to 60 seconds.

- 9. If applicable, click APPLY ALL to save current settings to all channels.
- 10. Click APPLY to save all changes.

3.3.2 Schedule

You can set the cameras to record at different modes based on a preset schedule.

To set the Recording Schedule:

- 1. Select CHANNEL (by default it will be CH1).
- 2. Select a recording mode you want to set to the schedule.
 - a. **NONE**: Disable recording.
 - b. **CONTINUE**: CONTINUOUS recording (Highlighted in Pink).
 - c. **MOTION:** MOTION recording (Highlighted in Green).
 - d. **SENSOR**: SENSOR recording (Highlighted in Yellow).
- 3. Highlight the days and hours you wish to set for the selected recording type.
- 4. To copy a schedule to a different channel, select the channel from the COPY SCHEDULE menu.

	ŝ						T						06						¢)					ഷ		
RECOR	RD SE	TU			SCH	IED	ULE																				
	•		СНА	NNE	ιC	H1			2		(2											6				
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- 5. To cancel recording for a specific time, select [CLEAR] button and click or drag the specific date/time.
- 6. When you are finished, click APPLY to save all changes.

3.4 Network

The Network menu allows you to configure the DVR's network settings, including IP configuration, DDNS, and E-mail notifications.



3.4.1 Network

6			¢	°
NETWORK	DDNS EMAIL NOTIFICA	ATIONS		
-	1 NETWORK TYPE	STATIC		1
2 -	IP	192.1		
-	3 SUBNET MASK	255.25	5.255.0	
4	GATEWAY	0.0).0.0	
	5 DNS	168.126.63.1	168.126.63.2	
6 -	WEB PORT	٤	30	
	7 STREAMING PORT	54	445	
8	NETWORK AUDIO PORT	54	446	
	9 NETWORK STREAM	CH1		1
10 -	RESOLUTION			1
	11) FRAME RATE			1
12 -	QUALITY	124-Date		1
	13) [APP	LYALL	
		HELP	APPLY	CANCEL

1. NETWORK TYPE

Select the type of IP address you want to assign the DVR. Select [STATIC] for fixed or [DHCP] for dynamic IP Address. (See section **3.4.4 Network Setup for Internal Access** and **3.4.5 Network Setup for External Access** for additional Network configuration information).

- a. [DHCP] An IP address is automatically assigned by the DHCP server, which automatically assigns the IP address and other parameters to new devices.
- b. [STATIC] The user manually assigns IP address, Subnet Mask, Gateway, and DNS.
- 2. IP

Once the settings have been set to DHCP or Static, the DVR's IP address will appear under the IP tab. If [STATIC] is selected, the IP section will be open for editing. If [DHCP] is selected, the IP Section will not be available for editing. Instead, it will only display the DVR's IP address as the network assigned it.

3. SUBNET MASK

Clarifies 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.

4. GATEWAY

The IP address of the network router or gateway server. The gateway is required in order to connect through the external router from the remote. For more information, please consult your network administrator or your internet provider.

5. DNS SERVER

There are two DNS Server settings, one for the Preferred DNS and one for the Alternative DNS. To access the DVR via the internet, enter the IP address of the Domain Name Server (DNS) Server. This is provided by your internet service provider.

NOTE Unless DNS is properly set, the DDNS and the e-mail features will not work.

- 6. WEB PORT "Default is 80" when connecting using the Web Browser.
- 7. STREAMING PORT: Enter the network port number. Default streaming port is 5445.
- NETWORK AUDIO PORT: "5446" is fixed port number for the audio streaming over the network.
- 9. NETWORK STREAM Select a channel to set up the network streaming for remote monitoring.
- 10. RESOLUTION

Set the resolution for the network stream. Options are "640x360" and "1280x720". For low bandwidth networks, it is recommended to set the streaming resolution to 640X360.

11. FRAMERATE

Select the frame rate (1FPS \sim 30FPS). The higher the FPS, the better the image quality will be. However, it will also increase the video size.

12. QUALITY

Select the video quality from LEVEL1 (LOW) to LEVEL5 (HIGH). Higher quality means better the image will be. However, it will also increase the video size.

NOTE It is highly recommended that you contact you Network Administrator and Internet Service Provider for information on correct Network setup.	
Provider for information of correct Network setup.	

13. HD APPLY ALL

Apply the setting value to other channels.

3.4.2 DDNS

DDNS (Dynamic Domain Name System) allows a DNS name to be constantly synchronized with a dynamic IP address.

DDNS allows you to use a URL address to access your DVR instead of a numerical IP address.

	DDNS SER	VER3			
- SERVER					-
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SERVE	22		1.000.000		
10.000	DNS SERVER NAME	3	INTERVAL	SD New Troop	
	ID III		PASSWORD		
	104			M	_
SERVER					_
	DDNS HOST NAME	hostnam	e .	AUTO	

1. SERVER1

Select Server 1 to setup a DDNS using okddns.com server (oknnds.com is a free service).

- a. Go to okddns.com and click on DDNS REGISTRATION.
- b. Enter your DVR's MAC address (found in the System Info tab).
- c. Enter a desired Domain Name and click on Validate Duplication.
- d. If the Domain Name you have selected is available, click Register to complete the registration.
- e. In the DVR, go to Menu \rightarrow Network \rightarrow DDNS.
- f. Select Server1 in the DDNS drop down list, and select okddns.com in the Server1 DDNS Server Name.
- g. Set the DDNS interval from 5~ 60 minutes. This sets how often the DVR will test if the DHCP IP Address has changed.

2. SERVER2

dyndns.com. You can use this option if you wish to setup a Domain Name using dyndns.com server. Note: This service requires subscription and payment.

3. SERVER3

Auto DDNS. This is an easy auto DDNS setup feature. If selected, the DVR will automatically register itself with the okddns.com server. This feature will setup DDNS

SERVER3		
DDNS HOST NAME	00026904A573	AUTO

automatically for you. In addition, unlike in Server1 option, this option will provide you with DVR health checking and additional features such as UPnP, at no cost to you.

- a. Input a desired hostname and click 'APPLY'
- **b.** The system will make sure the Hostname you selected is available.



- c. If you do not want to set a specific hostname, click 'AUTO' and 'APPLY'.
- **d.** Your DVR's MAC address will be set as your Hostname if you select the AUTO Setup option.
- e. If you want to change the host name, input the hostname and click 'APPLY'

3.4.3 E-MAIL Notification

The system can send notification to an Email address over the network when an event alarm is triggered.

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NETWORK	DDNS	EMAIL NOTIF	CATIONS					
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2 -	TRAM	SMISSION MOD	ETEXT					1
3)	IP NOTIFICATION	OFF					1
(4)		EVENT ALARN	OFF					1
5)	S.M.A.R.T	. OFF					1
<u>6</u>		MAIL BY STATU	SON					1
())	PERIO	DAILY					1
-			FIRST	1	SUN	OH		1
(8)		SECURE OPTION	NONE	1	9 MAIL	PORT	25	7
(10)	- MAIL SERVE	R		· · ·			1
(1)					12 PASS	WORD		_
(13		MAIL FROM				UL TO		(14)
	A COLORADO	induc i nor			1			U
					HELP	APF	PLY	CANCEL

1. SEND EMAIL

Enable/disable E-mail notifications.

2. TRANSMISSION MODE

Select whether the E-mail will be sent as a text only message, or with an attachment of a video corresponding with the event being notified.

3. IP NOTIFICATION

Enable/disable sending e-mail when the IP address of your DVR is changed.

4. EVENT ALARM

Enable/disable sending e-mail reports on the channel that triggered the alarm when an alarm event is triggered.

5. S.M.A.R.T

Enable/disable sending e-mail when any HDD abnormality is detected. This is connected with HDD TEMPERARTURE LIMIT (Refer to HDD menu in SYSTEM).

6. MAIL BY STATUS

Enable/disable sending periodical e-mail of the system status.

7. **PERIOD**

Select the frequency in which the DVR will send email notifications. Daily- The VMAX HD will send one email a day, at a pre-defined hour. Weekly- The VMAXH HD will send one email a week, at a pre-defined day and hour. Monthly- The VMAXH HD will send one email a month, at a pre-defined day, hour, and the week number.

EXAMPLE If the DVR is set to send monthly Email notifications, it can be set to send an Email at 10:00 AM of the Third Friday of every month.

8. SECURE OPTION

Select the secure mail server connection method (SSL or TLS). This will allow you to setup the sending email from a public E-mail account such as Gmail, Hotmail, Yahoo, Etc.

9. MAIL PORT

Set to 25 by default.

10. MAIL SERVER

Enter the appropriate mail server information.

11. **ID**

Enter the User ID of an E-mail account associated with the DVR.

12. PASSWORD

Enter the password for the mail server.

13. MAIL FROM

Enter the mail address from which the notifications will be sent.

14. **MAIL TO**

Enter the appropriate email address to enable sending e-mail reports. Current version is limited to one email address.

3.4.4 Network Setup for Internal Use

The VMAX HD can be setup to be accessed remotely either from within the network or externally via the internet.

- 1. Right-click on the screen and select Menu. Go to Network
- 2. Select the network type.

[DHCP] If selected, the system will automatically assign the DVR an IP address, subnet mask, gateway and DNS server that match the network's requirements. [STATIC] If selected, enter manually all the necessary information below.

Νοτε	
	TITINOTIA DOLLA MATTINI A MARTINI A MARTINI
	Intervention Intervention Intervention Intervention Intervention Intervention
	NETWORK STREAM CATS
infor	Port and Streaming port are set by default to 80 and 5445, respectively. This rmation is necessary when connecting to the DVR externally. If necessary, modify the is according to your network requirements.
Νοτε	Some internet service providers block port 80. It is recommended that you change the DVR's web po

- 4. Network Stream: Use this section to setup the streaming resolution of the DVR's video over the internet. The higher the resolution and frame rate, the better quality the image will be. However, the higher the quality, the more bandwidth space it will require.
 - a. Set the resolution for the network stream. Options are "640x360" and "1280x720.
 - b. Set the Frame Rate from 1-30 frames per second.
 - c. Set the Quality of the video from Level 1(low) Level 5 (High).

Note	If the bandwidth is low, the resolution should be set as 640x360.
Νοτε	

3.4.5 Network Setup for External Use

To connect to the VMAX HD externally via the internet, you will need to setup the DVR's ports in your router.

Νοτε	Contact your Network Administrator & Internet Service Provider for proper network configuration.
1. Set the I	Network type as DHCP.

2. Once the system generates all the necessary information, change the network type to static and save the settings without changing anything.

- 3. go to a computer that is connected to the same network as the DVR and go to Start→ Programs→ Accessories→ Command Prompt.
- 4. Enter the command ipconfig and press enter. Write down the following information:
 - a. subnet mask
 - b. Gateway (This is your router's IP address).
- 5. Open an internet explorer webpage and enter the gateway address in the address bar. Enter user ID and password to access your router. Contact your Internet Service Provider for this.
- 6. Depending on your router's make and model, open the ports associated with the DVR (80, 5445, 5446 if applicable). You can check portforward.com for additional information relevant to your specific router.

3.5 Quick Setup

[QUICK SETUP] enables easy setup for recording resolution, recording speed by frame, recording mode, and recording periods.

The system will follow the configurations for [QUICK SETUP] regardless of configurations set in other menus. Do not check [USE QUICK STEUP], if you want to use full system configuration defined in other menus.

ծ 🛛 🛡	06	() ()		1
QUICK SETUP				
USE QUICK SETUP				
INPUT DESIRED DAYS		1 DAY(S)		
RESOLUTION	1280 x 720		1	
FRAME RATE	30 FPS		7	
QUALITY	LEVEL 5(H)		7	
RECORDING	MOTION		7	
DAYS TO RECORD		1 DAY(S) 19 HOUR(S)		
			APPLY	
		HELP	APPLY	CANCEL

Νοτε

Disable [QUICK SETUP] to use the configuration from the other menus.



Chapter 2

WEB BROWSER

4. Web Viewer

The DVR has a built-in web server.

With an ordinary web-browser over the network, users can stay connected to the system for monitoring, playback, or remote configuration.

NOTE In order to connect to the VMAX HD remotely, Network configuration must be setup in the DVR. Please see section 3.4 Network for more information. If you are trying to connect to the DVR from outside the network, make sure the DVR's ports are forwarded in your router. Please consult your Network Administrator or Internet Service Provider for more information.

4.1 Web Live Viewer

- 1. Using a computer that has access to the internet, open an Internet Explorer browser.
- 2. In the address bar, enter the DVR's IP address.
 - a. If you are connecting to the DVR from a computer connected to the same network as the DVR use the DVR's internal IP address. Press Enter.
 - b. If you are connecting to the DVR from outside the network (over the internet, for example), enter the DVR's fixed public IP address or the DDNS address. Press Enter.
 - c. If you want to access your DVR using a DDNS, enter the registered hostname in the address bar of an Internet Explorer page in the following format: http://domainname.okddns.com
- 3. The window below will appear.
- If necessary, you will be asked to install ActiveX add-on on your Internet Explorer. A
 pop-up window will appear, press 'Install' or 'Allow' to install the necessary ActiveX files.
- 5. Select the "Connect" icon then below configuration window appear.
- 6. Enter the DVR's IP address, assigned port number (default 5445), User ID and Password. (Default admin user and password: admin/1111)

Daves B	-1	Connect	
1 2 3 4 5 6 7 8 9 50 11 12 13 54 15 16 m m	VMAXED	Connect to remote system. IP Address [172.16.20.30 PortNo [5445	
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If all the information has been entered correctly, the page will display your DVR's cameras as seen below.

No.	Item	Description
1	Information	Display current date and time with connected IP address.
2	Mode Status	Display options. "Connect" or "Disconnect".
3	Display Panel	Display camera's image in live and search modes.
4	PTZ Panel	PTZ Camera Control in Live Mode.
5	PTZ and Menu	PTZ submenu and client software control menu.
6	HDD Status	DVR's HDD usage status.
7	Volume	Adjust Volume.
8	Monitoring	Event log for current monitoring (Connection, Event).

4.2 Web Playback



No.	Item	Description
1	Calendar	Days with video recorded on them will be displayed in color.
2	Backup	Capture image, Start & End time for Backup and setup buttons.
3	Capture	Capture a screen shot of current video.
4	Setup	Go to the DVR remote setup menu.
5	Time Bar	Time bar shows recorded section.
6	Playback Speed	Control the playback speed.
7	Hour/Minute	0 - 60 : Minute, 0 - 24 : Hour
8	Screen Display	Select from single or multi-channel view

4.3 Image Capture

The VMAX HD's Web Viewer allows you to capture still screen shots of video you're currently watching.

To do so:

- 1. Go to search mode.
- 2. Select the date & time you want to view in playback.
- 3. Click on the PLAY button to view the video.
- 4. When you locate the image you want to save, click on the CAPTURE button. If you want to save a screen shot of a single channel, be sure you are in single channel view. Selecting the capture option while in multi-channel view will capture all 4 channels and their display.
- 5. If necessary, modify where you want to save the file and file name.
- 6. When you are done, click OK.
- 7. File will be saved as BMP by default.

Save Patra Distance of the
File Name: 2012,0214, 00028



NOTE User have to change the setup the window protection mode with non-protection in order to save the image at the Window Vista and Window 7. If user set the save path with different location then doesn't need to set the non-protection mode.

4.4 Web Backup

The VMAX HD's web viewer allows you to create backup files to be saved on your computer.

To do so:

- 1. Select Start Time and End Time from the calendar.
 - a. Select a date from the calendar and time from the time bar.
 - b. When you are done, click on Start Time to define current time as the beginning time of the Backup file.
 - c. Select the end time of the backup file. Select the day from the calendar and time from the time bar.
 - d. When you are done, click on the End Time to define current time as the ending time of the backup file.
 - e. A green line in the time line will indicate the selected time for backup.
- 2. Click Backup to open the Backup setup window.

NOTE Make sure you select a date & time that the DVR was operating correctly and there is Video recorded.

- 3. Select the channels you want to backup.
- 4. Make sure the start and end time match your needs or adjust them accordingly.
- Select the directory where the backup file will be saved. (Make sure you select a location that has enough memory to support the size of the backup file). By default, the file is saved to "C://storage/backup".
- 6. When you are finished, click OK to start the backup.

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Setting		
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End Time	10:05:04	
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File format: A//	-	
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7. The progress bar will display the backup progress bar.



4.5 Web Setup

User can remotely setup all of the DVR's configuration. The Setup button on the Web Viewer allows complete access to the DVR's complete Setup menu. To access the DVR's Setup remotely, enter the password.



4.5.1 System

For more information, see section 3.1.1 SYSTEM

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4.5.2 User

For more information, see section 3.1.2 SYSTEM



4.5.3 Device

For more information, see sections **3.2 DEVICE** and **3.3.2 SCHEDULE**

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4.5.4 Record

For more information, see section 3.3.1 RECORD SETUP



4.5.5 Network

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4.5.6 Upgrade

- 1. Check current firmware version
- 2. Search the upgrade file that you want to upgrade
- 3. Click on UPGRADE to start the upgrade

4.5.7 Information

User can check current firmware version and IP information



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Chapter 3

SINGLE SITE CLIENT SOFTWARE MANUAL

5. Client Software User Guide

5.1 PC Requirements

Recommended PC Requirements

OS	Windows XP, Vista, 7
CPU	Pentium Dual Core 1.8GHz or higher
VGA	1024*768, 256MB Supporting DirectX
RAM	1GB
HDD	20MB for installation, 10GB for Remote Backup

Minimum PC Requirement

OS	Windows XP, Vista
CPU	Pentium 4, 2GHz
VGA	1024*768, 64MB 24Bit Color Graphic Card
RAM	1GB
HDD	20MB Free Space

5.2 Multi-Site Software

The VMAXHD can also be monitored via Digital Watchdog's NxMS software. NxMS is a powerful, feature-rich network management software. A variety of DVRs, servers, and IP cameras can be connected and centralized under a single software. NxMS is not only an efficient way to watch live and recorded video, but it is also easy to control and record the connected DVRs and IP cameras from anywhere.

The NxMS software and user guide can be located on the CD included with your DVR.

NxMS Features:

- Multi-Site Access [Up to 256 from 1 Remote Workstation]
- o 256 Cameras [Across 3 Monitors] Live View for Total Awareness
- $_{\odot}$ $\,$ Email Hub for Alarms and Alerts from Any DW DVR Connected to It
- Visual Awareness Using Video and CAD Image Features
- o Easy Setup
- Function and Camera Security
- Full DVR Playback Functions
- PTZ Control and Setup Support
- Remote DVR Software Upgrade
- Backup Locally Saved Video to CD, DVD, HDD, etc.
- Backup Proprietary Video from All Supported DVRs

5.3 Install

- 1. Run the CD included with the VMAX HD.
- 3. A Setup Window will appear as below. Follow the instructions to complete the installation.
 - a. Select the directory to where you would like to save the software. Click [NEXT].
 - b. Select which shortcuts you want to install on your desktop. Click [NEXT].
 - c. Press the [INSTALL] to begin installation.
 - d. When installation is complete the Desktop icon will appear.

5.4 Uninstall

To uninstall client software, run main software again. A small pop up appear as below,



Account Manager will appear in Windows7 or Windows Vista.



Press [YES] to begin uninstalling.



5.5 Basic Operation



Click on Click on link in the start menu.



5.5.1 Network Connect

1. Click on [CONNECT] to add a device to the remote viewer software.



63 | Client Software Manual

1. Enter all the corresponding information. When you are finished press OK to save.

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201242-15 18-19 21 Correct # Search # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 E III III * A 4 * PT b * 4	Connect to remote Seto Name Prademas Port No: 10 Passwerd	172 18 2 01 - 142 18	
See Ser Men	HDD Usage memory and		
Carlors Passes Dama	7,04 584	Exert	DateTime
Paul Sele Asro			

 If all information was entered correctly, the main window will display the DVR's cameras in live view.

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5.5.2 Screen Layout for Live Mode

No.	Item	Description
1	Information	Display current date and time with connected IP address.
2	Mode Status	Display current "connected" or "Disconnected" with Search.
3	Search/ Live	Display camera's image in live and search modes.
4	Screen Split	Select the viewing mode. Choose a specific channel or view all 4 channels in multi-channel mode.
5	PTZ Panel	PTZ Camera Control in Live Mode.
6	PTZ Menu	PTZ submenu and client software control menu.
7	HDD Status	DVR's HDD usage status.
8	Streaming Info	Display the Frames per second and Bitrate of the current view (In single channel mode, the fps and Bitrate is for that one channel. In multi-channel mode, the fps and Bitrate is for all four channels combined).
9	Volume	Adjust Volume (Available when audio recording is set in the DVR).
10	Monitoring	Event log for current monitoring (Connection, Event).
11	Main Display	Display one or four channels in live or playback mode.



5.5.3 Screen Layout for Search Mode

No.	Item	Description
1	Calendar	Days with video recorded on them will be displayed in color.
2	Backup and Setup	Capture image, Start & End time for Backup and Setup buttons.
3	Time Bar	Time bar shows recorded section.
4	Search Mode	Search from PC or DVR (PC must have a recorded data for this feature to be enabled).
5	Playback Speed	Control the playback speed.
6	Hour/Minute	0 - 60 : Minute, 0 - 24 : Hour.

5.5.4 PTZ Control Panel

PTZ Camera Control in Live Mode



No.	Button	Description			
1	Directional Arrows	Move PTZ Cameras in 8 directions.			
2	ZOOM & FOCUS	Zoom In (+) & Zoom Out (-),Focus In (+) & Focus Out (-)			
3	Scan & Tour	Scan and Tour Setting			
4	PRESET	Select Preset			

5.5.5 Calendar Panel

Calendar Panel is only available in search mode.



NOTE Days with recorded data will appear in Red.

5.5.6 Search Panel

Search Panel is only available in search mode.

T	<u>.</u>	- 8	- <u>ba</u>	- U	- 18	- 11	- 25	- <u>k</u>	- D.		11	- <u>k</u> -	- 10	- <u>b</u> }	- B.	-	l de	15	- N.	1 1	1
0		2		4		6		8		10		12		14		16	18		20	22	 2
SE	AF	CI	ł	٦		0		\sum		6	1	\bigcirc	6		2		_			r	
PC	-	DV		SI.		4) (III-	•									1000	0 - 60	1.00	All	-

The Search Panel shows recorded data for each channel. Record Mode is distinguished by color.

In the Search Panel, click the time or move the bar to the time you want to playback.

No.	Button	Description						
1	K	1 Minute playback						
2	¥	Forward Playback: Decrease the Speed Reverse Playback : Increase the Speed						
3		1 second playback						
4		Forward Playback						
5		1 second forward						
6	*	Forward Playback: Increase the Speed Reverse Playback: Decrease the Speed						
7		1 Minute forward						

5.6 Setup

Select the Setup menu to control the DVR's settings as well as the remote software.

E Ceneral Site Event Event search Record	Security option Startup Startup Shutdown Search Password Password Setup
Display About	Save path Capture C1StoragelCapture
	Backup : C'IStorage'Backup
	Miscellaneous

5.6.1 General

The General Setup tab provides you with general settings for the remote client software.

1. Security Option

If selected, the remote client software will require a password for the following options:

- a. Startup- every time the software starts up.
- b. Shutdown- every time the software shuts down.
- c. Search- Every time a search is being performed.
- d. Live Monitoring- Every time live monitoring is being used.
- e. Setup- Every time a user is trying to access the setup menu.
- 2. Save Path

Use this option to modify the location where backup files are saved on your computer.

- 3. Miscellaneous
 - a. Display network statistics- If enabled, this option will continually display network information regarding the DVR at the bottom of the screen display.
 - b. Automatic Reconnection- If enabled, this option will require the remote client software to continuously try to reconnect to the DVR in case of connection loss.
 - c. Time format- This option allows you to modify the time format as shown in the remote client software.

5.6.2 Site

From this window you can add, modify or delete a site, or organize multiple sites. The remote viewer software supports up to 999 sites.

- 1. To add a site
 - a. Click on Addition to add a site. A new window will appear.
 - b. Enter the DVR's information and number of channels.
 - c. Click OK.
 - d. The site will appear in the Setup window.
- 2. To modify a site
 - a. Select a site from the list.
 - b. Click Modify.
 - c. Change the DVR's settings as necessary.
 - d. Click OK.
- 3. To delete a site
 - a. Select a site from the list.
 - b. Click on the Remove button.
 - c. Select OK to delete or Cancel to exit.

😨 General 🔿 Site	1.154	P. Down		Addition Nodity	Remove	Dis Name VMA			
Event Event search	NO.	Name	IP Address	Port No.		Contraction of the second			
Record	1	VMAX	172.16.2.51	5445		Putiteo. 5445			
Disk Disk						4D adree			
About						Passweld			
						Charnels			
						Charmela 4.0H			
						2 Display Desce Channel name			
						Chilles Marrie			
						1 041 2 042 3 043			
						3 043 4 044			
						1.00			
	-								

5.6.3 Event

Check the boxes of the events you wish to enable. Select whether they will be recorded in the event log, display an icon on the channel, and or be added to the event list.

El General 좋 Site 소 Event	Path : C:StorageiLo	2		
Event search Record	Ste: D	(- ·		MB (MAX:100MB)
Disk Display	Event	Log	icon	Eventiist
About	Startup	12	10	12
	Shutdown	(2)	101	101
	Betup change		121	121
	Sensor in	12	125	的
	C Alarm out	00	10	
	A Notion	58	卣	的
	Gamera loss	92 191	101	0
	Metwork loss	125	13	卣
	Record	98	12	10 A

5.6.4 Event Search

Search for events by setting the beginning and ending time.

- 1. Select the period you wish to search by entering the From and To dates and time.
- 2. You can also select to view search results from the first and or last recorded data.
- 3. Click Find to start the search.
- 4. You can save the generated Event log on your computer by selecting [SAVE].

General Site	From:	(Z) First	2012	-02-17	12+	22	12:00:00	10	
Event	To :	19 Last	201	-02-17	11-			141	Find
Event search Record	Path	CiStorag	peil.og						Browse
Disk Display	Type	Site		Event			Date/Time		
P About	into.			Startup			2012-02-03	14.58:27	
2000. AAN 775	info.	72.243.1	93.2	Connec	216 723	24	2012-02-03	15:00.15	6
	info.	72.243.1	91.2	Link col	nected	1	2012-02-03	15:00:18	
	into.	72.243.1	93.2	Camera	a detect	led	2012-02-03	15:00:19	1.1
	into,	72.243.1	93.2	Camera	detect	led	2012-02-03	15:00:19	
	into.	72 243.1	93.2	Camera	a detect	led	2012-02-03	15:00 19	
	into.	72.243.1	93.2	Camera	a detect	ed	2012-02-03	15:00:20	
	Info.			Startup			2012-02-06	15:17:34	
	Info.	km7045.3	elec	Connec	\$10 007	94.	2012-02-06	15:17:57	-
									Save.

5.6.5 Record

You can setup the recording settings for the DVR remotely from the client software.

General Site Event Bevent Search	Record condition Always Event El Auto record	
Record Disk Disk Display About	Channel Duration: 0 :	×_ 3
4	NG. CH 1 Channel 1 2 Channel 2 3 Channel 3 4 Channel 5 5 Channel 5 5 Channel 5 7 Channel 7	

1. <u>Recording Conditions</u>

Select the record mode from:

Always- Continuous Recording.

Event- Record when an event is detected.

Auto Record- Local Recording. If selected, the video streaming from the DVR will be recorded to a directory on your PC based on the recording mode you select.

For example: Auto Record & Always→ Continuous recording to your PC. Auto Record & Event→ video triggered by an Event will be recorded remotely to your PC.

2. Event

If Event is selected as recording mode, select which events will trigger the DVR's recording. Select motion detection and or when an alarm is triggered.

- 3. If alarm is selected, set the duration of an alarm recording.
- 4. Channels

Select which channels these settings apply to.

5.6.6 Disk

You can modify the location where backup files will be automatically saved in your computer.

1. Disk Space

Select the destination for backup files.

2. Disk Info

The system will display how much free space you have in your selected directory. If necessary, you can adjust your memory before backing up.

3. Disk Full

Select whether the system will start recording over old data when the disk is full or stop recording.

 Event Event search Record Disk Disk Display Abbut 	Disk space (G) • 0 Mb (MAX: 100Gb) Disk info Total space: 149 GB Free space: 22 GB Disk full @ Replace oldest files. (*) Stop recording.
---	--
5.6.7 Display

Use this option only when you are using multi-monitors and have an abnormal image on the secondary monitor.

General Site Site Event Event search Record Disk Original About	Display Secondary monitor image correction Please use this option only on the PC when having an abnormal image on the secondary monitor during use of multi monitor. If option is enabled, the performance of the program may drop.
	OK

5.6.8 About

"About" section will display the software's current version and license.

Setup	
 ☑ General ☑ Site ✓ Event ☑ Event search 砜 Record ☑ Disk ☑ Display ? About 	VMAX Version 3.0.6.0 (Build 120213) Copyright (C) 2011 This product licensed to : Warning: This computer program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.
	OK Cancel



Chapter 4

MOBILE PHONE SOFTWARE USER MANUAL

6. Mobile Phone Software User Guide

6.1 iPhone Application Software











6.2 Android Application Software





To ad have	ld a device, type added will appe	e in all the required i ar on the device list	page.			you
	ADD Device			± 🐨 📖	〒 📶 🧯 🖬 6:56 PM	
	Device Name	VMAX HD	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ld, Edit or Remove D	evices	
	IP/DNS Address	61.246.743.345		VMAX HD		
	Port	5445				
	User Name	admin				
	Password					
		ADD				
Selec	t up to four (4) c	Channels to view sim	PM	±∰ ⊑	〒 att 💼 😭 6:57 PM	
Selec		channels to view sim		±∰ ⊑		
Selec	Channel Sel Select chanael Device VA IP/DNS 61 Port 50	channels to view sim	PM	±∰ ⊑	〒 att 💼 😭 6:57 PM	
Selec	Channel Sel Select chanael Device VM IP/DNS 61 Port 50 Site ID ad	channels to view sim	PM	0.4352	〒 att 💼 😭 6:57 PM	
Selec	Channel Set Select channel (Device VM IP/DNS 61 Port 50 Site ID ad Password •	channels to view sim	PM 64	0.4352	 all ■ & 6:57 PM CH-2 640x352 	
Selec	Channel Set Select channel (Device VM IP/DNS 61 Port 50 Site ID ad Password •	channels to view sim	PM 64	0.4352	 all ■ & 6:57 PM CH-2 640x352 	



7. Appendix : Specification

ITEM			VMAXHD4		
Video	Input	Channel Input Level	4CH HD-SDI (720p25/30/50/60, 1080p25/30, 1080i50/60)		
	Output	Main Monitor	HDMI (1280x720)		
		Sub Monitor	VGA (1280x1024)		
		CVBS	1		
Audio	Input		4CH Line Input		
	Output		1CH Line Output		
	Audio Codec		G.711		
Alarm	Sensor Input		4CH, NC/NO Selectable		
	Alarm Out		1CH out by Sensor, Motion and Video Loss		
Operation	PentaPlex		Live/Record/Playback/Backup/Network		
Live	Digital Zoor	n	Zoom-in of specific area		
	Channel Se	quence	3 ~ 60 seconds		
Recording	Compressio	n	H.264		
	Resolution		Up to 1920x1080		
	Recoding Q	uality Grade	5 Levels		
	Recording I	Mode	Continuous, Schedule, Motion, Sensor, Manual		
	Motion Det	ection	Setup by Grid		
	Pre Record	ing	Min. 15 seconds and Max. 20 minutes		
	Post Recording		10 ~ 60 seconds		
Playback	Digital Zoor	n	Zoom-in of specific area		
	Speed	FF	x1/4, x1/2, x2, x4, x8, x16 and x32		
		FR	X1, x2, x4, x8, x16 and x32		
	Search Mode		Timeline, Event, Archive, Log, Specific Time		
Backup	File Format		JPEG/Proprietary Format		
	Media		USB/External HDD/Network		
	Built-in Viewer		Yes		
Network	Dual Streaming for Live		1280x720/640x360 120/100fps		
	Playback		H.264 HD 120/100fps		
	Streaming		RTP/RTSP/RTCP		
	Protocols		HTTP, DDNS, NTP, SMTP		
Storage	HDD	Interface	SATA, e-SATA		
		Max. Capacity of HDD	2TB		
		Max. Internal HDDs	4EA		
	External Storage		1 e-SATA for RAID		
	File system		Self-developed, Reliable and Stable File system		
	S.M.A.R.T		HDD Error Check and Reporting		
User	Menu Displ	ау	Graphic User Interface		

Interface	Input Method	Front Buttons, IR Remote Control, Mouse, Keyboard Controller		
Serial	POS	1 RS-232C		
	PTZ & Controller	2 RS-485		
Network	Ethernet	RJ-45, 10/100/1000Base-T, Auto MDI/MDIX		
Network Access	Web Viewer	Live, Search/Playback, Backup, PTZ, Remote Setup/Upgrade		
	Single-site monitoring software	Live, Search/Playback, Backup, PTZ, Remote Setup/Upgrade		
	Multi-sites monitoring software	Live, Search/Playback, Backup, PTZ, Remote Setup/Upgrade		
Features	DST (Daylight Saving Time)	Yes		
	Internal Beep	By Video Loss, HDD Error		
	Software Upgrade	By USB, Network Remote Upgrade		
	NTP	Yes		
	Watermarking	Yes		
	3G Mobile	iPhone, Android		
General	Operation Temperature	0~104 F		
	Operating Humidity	20%~80%		
	Power	AC 100~120V/200~240V, 50/60Hz, 280W		
	Net Weight (Gross Weight)	14.6 lbs (19.4 lbs)/ 6.6 kg (8.8 kg)		
	Unit Dimension (W x D x H)	17.00" x 16.92" x 3.86" (432mm x 430mm x 98mm)		

Νοτε

The specifications are subject to change without notice.