HD 1080P 4 Channel Digital Video Recorder

# **User's Manual**



- Triple Streaming / Digital Zoom
- True HD 1080P Display and Recording
- Max 128ch CMS Client S/W
- POS (Text Insert Function)

# Preface

We welcome you as a new user of the world's best digital video recorder (DVR) and leading Digital Video Surveillance System. For best use of this product, read this manual carefully and keep this manual close to your hand.

### Copyright/Authentication/Trademark/Limited Warranty

#### Copyright

Copyright (c)2013. Win4NET. All rights reserved. All contents and pictures cannot be copied without permission.

#### Authentication

#### CE, FCC, KCC

#### Trademark

Ethernet(TM) is a trademark of Xerox Corporation.

Microsoft(TM), MS-DOS(TM), Windows(TM logo), Windows(TM) and Windows NT(TM) are a trademark of Microsoft Corporation, used in the United States and elsewhere.

#### **Limited Warranty**

- The manufacturer, importer and agent shall not be responsible for accidental damage (including injury) and other damage caused by inappropriate use or operation of this product.
- The information in this manual is prepared based on the current specifications of this product. The manufacturer would add new functions and continue to upgrade the product with new technology. All specifications can be subject to change without prior notice.

#### Cautions

We strongly recommend that users read all safety cautions carefully before operating the product and safe operation. Following signals contain critical safety information; they must be fully complied with. The cautions are categorized into Danger, Warning, Caution and Important.

Danger	Risk of death or serious injury. This is the highest priority danger warning.
Warning	Risk of serious or less degree of injury. May also cause damage to the product or to property.
Caution	Risk of minor injury or damage.
Important	Requirements or limitations regarding operation. Users are recommended to read the relevant details carefully so as to operate the product properly and without harm.

The above cautions indicate damage level which could occurred due to inappropriate system use





- RISK OF EXPLOSION IF BATTERY IS REPLACED BY INCORRECT TYPE. DISPOSE OF USED BATTERY ACCORDING TO THE INSTRCTIONS.
- THIS EQUIPMENT IS INDOOR USE AND ALL THE COMMUNICATION WIRINGS ARE LIMITED TO INSIDE OF THE BUILDING.
- Please connect the power cord only to the type of AC outlet indicated in the manual or product specification. If connected to other types of power outlet, fire and electric shock may result.
- Do not expose the product to moisture and dampness. Doing so may result in fire and electric shock.
- Do not place heavy objects on top of the power cord. Damage to the power cord may result in fire and electric shock.
- Do not place containers with liquid or small metal objects on top of the product. Liquid or small metal objects getting into the unit may lead to fire and electric shock.
- Do not score, bend, twist, pull or heat the power cord. Damage to the power cord may lead to fire and electric shock.
- Do not remove the top casing of the product. Doing so may result in electric shock. If internal examination and maintenance are deemed necessary, contact the authorized system vendors or installers.
- Do not modify the product in any way. Doing so may lead to fire and electric shock.
- In case of lightning, immediately turn off the power switch and remove the power cord from the power outlet. Failure to do so may result in fire and electric shock.
- Please use only the power cord supplied with the product. Use of other power cords may result in fire and electric shock.
- In case of smoke, smell or noise, immediately turn off the power switch and remove the power cord from the power outlet. Continued operation of the product may result in fire and electric shock. Request a maintenance service from the authorized system vendors or installers.
- If the product is dropped or damaged, turn off the power switch and remove the power cord from the power outlet. Continued operation of the product may result in fire and electric shock. Users should request a maintenance service from the authorized system vendors or installers.
- Do not touch the product with wet hands. Doing so may result in electric shock.



Risk of serious or lesser degree of injury. May also cause damage to the product or to property.

- Do not leave the power cord or other cables in passageways. Passers-by may trip and fall.
- Avoid contact with water or beverages. Contact with water or beverages may result in damage that cannot be repaired.
- In case of lightning, immediately turn off the power switch and remove the power cord from the power outlet. The product may otherwise be damaged.
- Excessive current from the product and the camera may result in an electric shock. Connect the power cord to an external device only when the products themselves are disconnected from their power supply.



Risk of minor injury or damage.

• If a foreign substance is stuck to the product, remove it using a soft cloth or tissue. Do not use chemical agents (thinner,



solvent, etc.) to remove the substance.

- Do not operate or store the product in the following places.
  - An area that is either too cold or too hot
  - An area of high humidity, or in front of an air-conditioner, or in places subject to sudden temperature changes
  - An area where there is excessive dust
  - Areas where heat from the product cannot be emitted through both of the product's side ventilation openings
- Do not place credit cards/telephone cards/bank account books/tickets and other objects with magnetic properties near the product.
- Static electricity may cause damage to the internal parts of the product. Please remove static electricity from your body before touching the rear panel and internal electronic parts of the product.
- If this product is damaged beyond repair or reaches its maximum service life, dispose of it in compliance with local laws and regulations regarding the disposal of lead and plastic waste.



- The product may not work properly if the power source is unstable or and if electric shock occurs. Make sure the correct rated power is available.
- The product is designed to be proof against electric power failures; however, damage may occur as a result of power failure. Current data may be damaged or data might not be recorded. Make sure to use an Uninterruptible Power Supply (UPS).
- Since the product is designed to record video data on the hard disk, an error in the hard disk or other miscellaneous errors might prevent the product from recording properly. Periodic maintenance is required for proper operation of the product.
- The product is designed for users to configure their own interface. However a user configuration error could lead to operation malfunction. This product should be set up by certified installers only.
- Since the product is connected and tightly coupled to exterior accessories (camera, sensor, LAN, Hard Disk, etc.), there is a risk of malfunction from external causes. Ensure periodic maintenance by the certified installers.
- Use the rack mounting handle provided with the product for installation.
- In this product, 1 Kbyte equals 1,024 bytes, 1 Mbyte equals 1,048,576 bytes and 1 Gbyte equals 1,073,700,000 bytes.



# Contents

Preface	1
Contents	5
Chapter 1. Introduction	9
1. The System	9
2 General Features	9
3 Specification	10
Chanter 2 System Installation	10
1 Dackage Contents	11
2. Connecting Devices	
2. Conflecting Devices	
Chanter 2 Using DVD	
1. Basis Oscietius	
1. Basic Operation	
1-1. Front Panel & IR Remote Controller	16
1-2. Turning on the System	16
1-3. Menu Bar	16
1-4. Display Icons	17
1-5. User or Admin Login	18
1-6. Main Menu	19
1-7. Popup Menu	20
2. DVR Configuration	
2-1. SYSTEM	21
2-1-1. MENU > SYSTEM > Information	21
2-1-2. MENU > SYSTEM > Date & Time	
2-1-3. MENU > SYSTEM > USER	
2-1-4. MENU > SYSTEM > QUICK SETUP	
2-1-3. MENO 2 3131EM 2 3131EM EOG	25
2-2. DEVICE	25 25
2 - 2 - 2. MENU > DEVICE > Audio	
2-2-3. MENU > DEVICE > Alarm	
2-2-4. MENU > DEVICE > Keyboard	
2-2-5. MENU > DEVICE > RS232 & RS485	
2-3. DISPLAY	28
2-3-1. MENU > DISPLAY > Display	
2-3-3. MENU > Display > Spot	29
2-3-4. MENU > Display> Digital Signage	29
2-4. RECORD	30
2-4-1. MENU > RECORD > Storage	
2-4-2. MENU > RECORD > Kecord	
$2^{-4-3}$ . IMENU > KELUKU > UUIIUUS	
2-5-1. FILING > INCLIWORK > AUGUESS	دد ۲۵
2-5-3. MENU > NETWORK > Notification	



		2-5-4. MENU > NETWORK > Transmission	
		2-6. EVENT	
		2-6-1. MENU > EVENT > Sensor	
		2-6-2. MENU > EVENT > Motion	
		2-6-3. MENU > EVENT > Video Loss	
		2-6-4. MENU > EVENT > Text-In	
		2-6-5. MENU > EVENT > System	41
	3.	Playback	42
		3-1. Go to Time43	
		3-2. Calendar Search43	
		3-3. Event Search	
		3-4. Text-In Search	
		3-5. Backup Data Playback45	
		3-6. Playback Control45	
	4.	Backup	46
		4-1. Backup	
		4-2. Instant Backup47	
		4-3. Clip Maker	
Piv	ot	Pro Software User Manual	
	1.	What is Pivot Pro	49
		1.1. Product description	
		1.2. Features49	
	2.	Getting Started	50
		2.1. Installing Pivot Pro50	
		2.2. First Starting Pivot Pro51	
	3.	Registration	52
	4.	Pivot Pro Look	53
		4.1. Main Menu & Tool Bar53	
		4.2. Display Area53	
		4.3. Device List53	
		4.4. Switching Tab53	
		4.5. Adding Displays54	
		4.6. Split & Merge Displays54	
	5.	Adding, Updating, and Deleting Connections	55
		5.1. To add a device:	
		5.2. Updating a device:	
		5.3. Deleting a device:	
	6.	Connecting, Assigning, and Arranging Channels	56
		6.1. Connecting Device	
		6.2. Single Connect	
		6.3. Group Connect	
		6.4. Assigning a channel into a live screen by Drag & Drop	
		6.4.1 Simultaneously assigning all channels into live screen	
		6.4.2 Assigning a channel into a live screen by Drag and dropping	
		6.4.3 Assigning a channel into a live screen by double clicking	
		6.4.4 Rearranging Live Screens	



	6.4.5 Closing Live screen60	
7.	Features on Live mode	60
	7.1. Finding a server60	
	7.2. Getting Details with a Device61	
	7.3. Single Screen Mode61	
	7.4. Full Screen Mode62	
	7.5. To Pause Live Video62	
	7.6. Capturing Live Video62	
	7.7. Switching to another Split Screen Mode	
	7.8. Clone Live View	
	7.9. Sequence and User Screen	
	7.10. Sequence / Edit Sequence	
	7.11. Zooming in/out Live Video65	
	7.12. Mouse Action	
	7.13. Live Audio	
	7.14. Two way audio	
	7.15. Search in Live	
8.	Е-Мар	
	8.1. Using E-Map	
	8.2. Jumping to Map Display from Live	
9.	Search	
	9.1 Enter to Search mode	
	9.2 Single Device Search Display	
	9.3 Status Search	
	9.4 Preview search	
	9.5 Bookmark and search73	
	9.6 Print and Save73	
	9.7 Mouse Action73	
10	. Health Check	
11	. Alarm Monitor	
	11.1 Alarm Setup75	
	11.2 Alarm Events	
	11.3 Filtering Alarm Results	
	11.4 Alarm report	
	11.5 Alarm Export	
12	. Settings	80
	12.1 General	
	12.1.1 User Information and Changing Passwords	
	12.1.2 Load / Save Options80	
	12.1.3 Lock Setting	
	12.1.4 Use Disconnect notice dialog81	
	12.1.5 E-Map Alarm Event81	
	12.2 Live Setup	
	12.2.1 Live Display82	
	12.2.2 OSD settings83	



12.2.3 Font	
12.2.4 Capture	
12.2.5 Action on Alarm83	
12.2.6 Audio play mode83	
12.3 Health Check	84
12.4 Alarm Monitor	85
12.5 POS	86
12.6 Admin	87
12.6.1 Global Setting	
12.6.2 Additional DVR information	
12.6.4 Hide Video Noise	
12.6.5 Audio	
12.6.6 Set Schedule for discarding normal alarm	
12.7 Users	90
12.8 E-mail	91
12.8.1 General91	
12.8.2 Users92	
12.8.3 Normal Alarm92	
12.8.4 Emergency Alarm92	
12.8.5 Health Check alarm92	
13. Other features	93
13.1 Sub menu on live mode93	
13.2 Sub menu on Connection list94	
13.2.1 Sub menu on Group level94	
13.2.2 Sub menu on Device level95	
13.2.3 Sub menu on channel level95	
13.3 LOG96	
13.4 Version96	
13.5 PC DVR multiple search96	
13.6 Backup Viewer96	
Appendix A. Remote Access Using I.E.	97
Appendix B. How to set DDNS using router	
Appendix C. Digital Signage Maker	
Appendix D. iOS Mobile Client	
Appendix E. Android Mobile Client	
Appendix F. PFRM Instructions (PC Free Remote Monitoring)	
COMPLIANCE NOTICE OF FCC:	
WEEE (Waste Electrical & Electronic Equipment)	
ROHS Compliance	

# **Chapter 1. Introduction**

# 1. The System

The VMAXHD Flex is a digital video recorder that offers real-time recording 1080p (1920X1080) at 60fps. The VMAXHD allows customers to use existing coaxial cable infrastructure while providing an unparalleled image quality. In addition, the VMAXHD Flex offers a clean front panel design with no buttons for an affordable solution. The VMAXHD is available in 4 channels and comes equipped with 3 or 6 Terabytes of storage.

# 2. General Features

- HD 1080p (1920X1080) @ 60fps
- Multiplex- Live, Record, Playback, Backup, Network
- Advanced H.264 Linux Embedded DVR
- Covert Channel & Spot Monitor Support
- ACH Video & 4CH Audio
- HDMI & VGA Support
- 4 Sensor Input, 4 Sensor Output
- Digital Zoom to Selectable Areas in Live and Playback
- Web-Based Client with Multi-User Access
- Simple & Free DDNS
- Watermark Verification (Digital Signature Verification)
- DVR Health Check with Email Notification
- DVR Calculation and Auto Recording Configuration
- Help Menu on Major Functions
- RS-485 Built-in
- Remote Operation & Configuration
- USB Mouse & IR Remote Controller Included
- Up to 2 Internal HDD Supported
- > 5 Year Limited Warranty

# 3. Specification

VIDEO		
Video Input		4CH HD-SDI
Video Live	Framerate	1~30fps
	Resolution	1920x1080/ 1280x1024/ 1280x720/ 1024x768/
		720x576/ 720x480
Video Output		HDMI , VGA, CVBS (Spot Video)
Audio Output	Input	4CH Line Input
	Output	1CH Line Output
	Audio Codec	RCA
Alarm	Sensor Input	4CH Input, NO/NC
	Alarm Out	4CH Output
Operating Sy	stem	Linux Embedded
Serial		1x RS-485, 1X RS-232, 2x USB Ports
User Interface	Menu Display	Graphic User Interface
0001111011000	Control Methods	USB Mouse. IB Controller, Javstick Controllers
Screen Displ	av	1/ 4/ PIP/ Sequence (1 Sec ~ 1 Min with event popula)
Performan	ce	
Pessereing	Compression	H 084
necoraing	Depending Date	Lip to 60fpp on 1090D (1000v1090) & 700D (1090v700)
	Recording Mode	Continuous Schedule Motion Sensor Manual
	Dra Bacordina	590 Seconde
Plasback	Free Foourard Europtions	v2 v4 v8 v16 v22 Frame.hu.Frame
riayuaun	Rewind Euroctions	v2 v4 v8 v18 v22 Frame hy Frame
	Search Modes	Calandar/ Date & Time/ Event Log/ Text Sparsh (DOS Science)
Bakeup	Ele Format	IDEC / Provistory Format
Darcup	Reskup Options	USB/ Evternal HDD/ Network
	Duilt in Viewer	Voo
Storage	HDD Interface	CATA CATA
OIOI age	May Capacity	8 Tarshutas
	Max. Internal HDDa	2 HDDs
	External Storage	2 DUS LISP External UDD
Engluene	Disitel Zeem	Digital Zeam in Live and Dischards to Calestable Areas
reatures	Digital 200m	Via Via
	Coffugra Upgrade	166 Logal Llagrade by LICD and Demote Metwork Llagrade
	Sonware Opgrade	Local Opgrade by USB and Hemote Network Opgrade
	Watermarking	16S Mahila Analisation for Anala 9 Analasid Octob Disease 9 Tablets
	3G MODIE Deint of Colo	Mobile Application for Apple & Android Smart Phones & Lablets
	Point of Sale	Integration with POS va HS-232 Connector
Network		
Network Co	nnection	RJ-45, 10/100/1000 Base-T
Streaming	Transmission Speed Live	CIF, D1, 720P, 1080P with Bandwidth Control
	Transmission Speed Playback	H.264 @ 60fps
	Protocols	HTTP, DDNS, NTP, SMTP
Access	Web Viewer	Live, Search/ Playback, Backup, PTZ Control,
	Remote Monitoring Software	Remote Setup & Upgrade
General		
Operating Te	mperature/ Humidity	5°C ~ 40°C (41°F ~ 104°F)
Operating H	umidity	Less than 80% (Non-Condensing)
Electrical	Power Consumption	DC 12V. 3.33A (40W)
Dimensions		13.39" X 2.64" X 10.43" (340 x 67 x 265 mm)
Weight		4.4 lbs (2 kg )

\*Specification is subject to change without prior notice.



# **Chapter 2. System Installation**

# 1. Package Contents

The following components are included in product box:

DVR Unit	DVR Unit
DC Adaptor	
Power Cord	P~
Remote Controller	
Quick Guide	Quick Guide
CD (User's Manual & Network S/W)	



# 2. Connecting Devices

Following picture shows the rear panel of DVR:



<VMAXHD Flex Rear View>

• **Front USB:** Two USB ports are available in the front panel of the DVR to connect external devices like HDD and Flash memory for Backup, System upgrade or USB mouse.

#### **Video Input**



Connect up to four (4) **HD-SDI CCTV** camera with using **'HD-SDI video in 1, 2, 3, 4'** BNC video connectors. Use regular cable to minimize video noise.

- **LOCK (Green LED)** : Turned on when SDI Camera and DVR connected normally.
- ON ERR (Red LED) : Turned on when error detected in SDI Camera data receiving.
- \* Live image would be ok even when an error is detected on receiving data.



#### **Audio Input**

The DVR can record audio up to 4 audio sources. Connect the audio sources to the Audio-In RCA connectors. All channels need external pre-amplifiers. \*Check your local law (regulation) before audio installation.

# SPOT



 Constant
 output (CVBS out)

 O
 DVR provides 2 spot

 Composite output:
 define output type ar

 Configuration.
 output:

 Output:
 Make sound

DVR provides 2 spot outputs with video and sound input. **Composite output:** This output provides 720x480 resolution and user define output type and screen ratio. For more details, see *Chapter 3-2. Configuration*.

output: Make sound outputs on each audio input. Delay setup is available

to compensate time difference when playback. For more details, see Chapter 3-2. DVR

#### Configuration



Audio output



Audio output uses line output level. Connect speaker with built in power amplifier or power amplifier passed one.

#### HDMI, VGA Output



Connect HDMI or VGA monitor. The VMAXHD Flex provides the same image output on HDMI and VGA monitor. Available output resolutions are 1920 x 1080, 1280 x 1024, 1280 x 720, and 1024 x 768. Factory default is 1280 x 720. To change output, follow one

of the following options:

- 1. Press and hold 'Zoom' button for 3 seconds on the remote controller. This changes resolutions in the following order  $1920 \times 1080$ ,  $1280 \times 1024$ ,  $1280 \times 720$ , and  $1024 \times 768$ .
- 2. Select display resolution on quick setup menu.
- 3. Select display resolution on setup menu.

HDMI port provides 32 kHz sampling frequency audio output.

#### RS485/Alarm/Sensor



This RS485 connector can be used to control PTZ cameras or for a joystick controller.

4 alarm output ports are available for controlling external alarms such as sirens or lights. Alarm output connector supports TTL output signal.

4 sensor inputs are available for connecting external devices. You can use sensors as notifications for events on the DVR. The emergency sensor is designed for Emergency recording only. This follows Emergency recording configuration once it is triggered.

RS-232C connector is provided to connect an ATM/ POS machine with Text-In feature. To make connection on terminal block, press and hold the button and insert the wire in the hole below button.



• Network: Connect a LAN cable to the DVR's RJ-45 port for remote monitoring via network, Page | 13

playback and setup. See *Chapter 3-2. DVR Configuration* for more information on network configuration.

- **Reset**: pressing the reset button will return all DVR settings to original factory default. To do reset, turn DVR off first and turn it on again. Press and hold the reset button until the system initialized. (Use a paper clip or similar object to press the button all the way).
- **Power connection:** Connect included adapter to power the DVR (DC12V, 3.33A). Free voltage from 100V to 240V, 50/60Hz.
- \* Adapter input range is: AC 100V ~240V, 50/60Hz.



# 3. Cautions

- Avoid installing the product where there are direct rays or it is hot by locating near from heat generator. (May cause fire)
- Do not put vase, flowerpot, cup, cosmetics, drug, and anything they contain water on product. (May cause fire or electric shock, and it may injure people by falling)
- Do not insert or drop any metal object (coin, hair pin) or flammable object (match, paper) into air hole. (May cause fire or electric shock)
- Do not put any heavy object on it. (May injure people by being fell or destroyed.)
- Put power plug surely not to be moved. (If not, this may cause fire.)
- Unplug power plug and antenna when there are thunders and lightening. (May cause fire.)
- For cleaning the product, wipe surface with dry towel. Using chemical agent or cleaner may change the color and unpeel paint.
- Do not put several plugs at same time. (May cause electric shock.) If there is smoke or strange smell, stop operation. In this case, turn the power off and unplug it, and then contact our service center. (If you keep using it, this may cause fire or electric shock.)
- Do not unplug by pulling cord. (If cord is damaged, it may cause fire or electric shock.)
- Do not plug or unplug with wet hands. (May cause electric shock.)
- Keep the power cord untwisted. (May cause fire or electric shock.)
- Use proper adapter. (Using too much electric power may cause fire or electric shock.)
- Do not install it at where exposed to rain and wind and water drop. (May cause fire, electric shock and transformation.)
- Keep away from fire. (May cause fire.)
- Do not disassemble or remodel on your own. (May cause malfunction or electric shock.)
- Do not put next to flammable materials like flammable spray. (May cause fire.)
- Do not install it at a place with too much dirt. (May cause fire.)
- Do not install it on unstable places like shaking table and inclined place or shaking place. (May injure users by falling down or being upside down.)
- Do not put an heavy object on power cord or avoid it from being pressed by the device. (May cause fire or electric shock.)
- In case of using extension cord, do not use several devices at same time. (May cause fire with abnormal heating of extension.)
- When there are dirt on power plug pin or power outlet, clean it nicely. (May cause fire.)
- Do not damage on power cord or plug, and bend or twist or pull too much, and put it between other objects or heat. If power outlet insertion part is not tight, do not use it. (May cause fire or electric shock.)
- Do not drop or give a shock to the product. (May injure people or cause malfunction.)
- Do not touch power adaptor or signal controller. (May cause electric shock.)
- Do not put any object too close to block cooling fan. (May cause fire.)
- In case of exchanging batteries with improper type, there might be danger of explosion.
- For used batteries, throw away separately from other garbage.
- When you take out batteries, avoid children from eating them by mistake. Keep them away from children. (If a child ate them, contact a doctor right away.)

# Chapter 3. Using DVR

# 1. Basic Operation

# 1-1. Front Panel & IR Remote Controller

This DVR should be installed correctly before using.

Control	Description
USB Port	Two USB ports are located on front panel.
Status LED	Power, HDD, Network, Alarm

# 1-2. Turning on the System

Once all external devices are properly connected to the DVR, connect the DVR to the power cable and turn the power on. It may take up to 30 seconds for the system to initialize. Once the system is initialized, it will display live screen and start to record video automatically.

*Note*: To turn off the system, select SHUTDOWN in main menu (MENU > SHUTDOWN) and unplug power cord when shutdown message appears.

*Note*: It is recommended that you format the DVR's HDDs when it is installed for first time. To format the HDD, go to "MENU > RECORD > Storage > HDD format".

#### 1-3. Menu Bar

Menu bar will appear bottom of screen as follows.

MENU
------

мот аучилале 🕒 «на/каоса 🖓 🖉 🖉 Ф.Ф.Ф. 2012-12-03 02:10:35 РМ 🗒

MENU	Press 'Menu' to open the main menu list.
$c^{J}$	Shows the status of Digital signage.
NOT AVAILABLE	Shows the status as import, ready, not Available of digital signage.
MPORT 50%	Shows the progress of digital signage.
B 6968/6968	Show used space as % of HDD being used.
Ð	Turned on when the HDD is set to overwrite.
	Shows the Sequence display mode.
<b>X</b>	Turned on when the system is connected to the

	network.
¢	Turned on when an Alarm is activated.
	E.REC (Emergency Recording) Mode.
2009-04-03 07:31:32 PM	Displays current date & time.
	IR Remote Controller indicator.

# 1-4. Display Icons

<u> </u>	
•	No Recording
•	Recording (Red)
•	E.REC (Emergency Recording)
	Event Recording (Red)
	Pre Event Recording (Blue)
S	Motion Detection
<b>W</b>	Sensor Detection
A	Text In
J	PTZ Camera
	Instant Backup
	Clip Maker (Blue)
	Backup (Red)
×	Video Loss

#### 1-5. User or Admin Login



Press the 'MENU' button to enter the DVR's main menu. The login screen will appear, prompting you to enter your user ID and Password. Up to 8 numbers are required on password with combination of numbers from 0 to 9. Click the numeric buttons on the bottom to enter password. Click "..." button to pop up the virtual keyboard to enter password.

Press OK to log in. Passwords can be set in the password setup option (MENU > SYSTEM > User). The system will automatically log out if it is not in-use for a while. This "Auto Logout Time" can be set in password set up option (MENU > SYSTEM > User).

*Note*: The factory default password for the Administrator user is 'none'.



# 1-6. Main Menu

The DVR's Main Menu consists of SYSTEM, DEVICE, DISPLAY, RECORD, NETWORK and EVENT. Each menu consists of sub-menus that allow detailed setup. Use your USB Mouse or Remote Control to access each menu.

		Information
		Date & Time
	SYSTEM	User
		Quick Setup
		System Log
		Camera
		Audio
	DEVICE	Alarm
	Keyboard RS232 & RS48	Keyboard
		RS232 & RS485
		Display
MAIN MENU	DISPLAY	Spot
		Digital Signage
		Storage
	RECORD	Record
		Utilities
		Address
		DDNS
	NETWORK	Notification
		Transmission
		Sensor
	EVENT	Motion
		Video Loss
		Text-In



	System
LOGOUT	
SHUTDOWN	

#### 1-7. Popup Menu

The pop-up menu will appear by right-clicking with your mouse anywhere on the screen.

Live: Administrator	
Digital Signage	
Camera	>
OSD	>
Freeze	
Display	>
Audio	
PTZ	
Backup	
Playback	>
Remote	<
Emergency Record	
Log	
Setup Menu	
(FD04)	

Digital Signage: Run digital signage.

**Camera**: Select camera no. to display in single channel.

**OSD**: Select OSD display option.

Freeze: Pause current image display.

**Display**: Display option.

Audio: Select Audio output.

PTZ: Select PTZ options.

Backup: Select backup options.

Playback: Playback recorded data.

**Remote**: Select PTZ function.

E. Record: Start Emergency Recording.

Log: Select System/Event log.

Setup Menu: Enter Main setup menu.

For more detail information, see *2. DVR Configuration*.



# 2. DVR Configuration

# 2-1. SYSTEM

In SYSTEM menu, you can access and setup the system's general Information, Date &Time, Users, Quick Setup, and System Log.

#### 2-1-1. MENU > SYSTEM > Information



In the Information screen, the DVR's Name, MAC Address, Version, Upgrade, Remote Controller ID, and Configuration options can be selected.

#### **DVR Name**

To change the DVR's name, press the 🖃 button. Use virtual keyboard to enter DVR name.

#### Firmware Upgrade

To upgrade system, place the upgrade files on a USB Flash Memory and connect it to the DVR. Once device is recognized, press the upgrade button to execute system upgrade. Upgrade will take approximately 5 minutes. DVR will reboot automatically when the upgrade is completed.

*Note*: DO NOT remove the USB Memory or turn off the system during the upgrade. Removing USB Memory or turning off the system during the upgrade may cause system malfunction.

#### **Remote Control ID**

Enter the Remote Control's ID to control multiple DVRs individually. If Remote Control ID remains as 0, no need to select Remote ID when using remote controller.



#### Configuration

System settings can be saved and loaded using Configuration import and export options.

**Export**: Save the DVR's current settings to a USB Memory.

Import: Load previously saved settings from a USB Memory.

Default: Load factory default settings.

*Note*: Configuration Import does not affect or change the system and network settings. Network settings will change only when Default option is selected.

#### 2-1-2. MENU > SYSTEM > Date & Time



In the Date & Time sub menu, users can adjust the Time Zone, Date, Time, NTP Server, and Holiday options.

To adjust the DVR's time zone, press the button and select the appropriate time zone from the drop-down menu options.

Select 'Use Daylight Saving Time' if it is applicable. Enter start and end date/time for local 'Daylight Saving Time'.

Press ∃ button to manually setup the Date and Time.

Press Format button to select a date & time display format.

SYSTEM : Date & Time	
Date & Time NTP Holiday	
Use NTP	
NTP Server : 4	
Interval - 1 day Vupdate	
O K Cancel	

Select 'Use NTP' to enter Time Server's information to be synchronized with DVR. Press the 🗹 button to enter the Time Server's information using the virtual keyboard. Press 'Update' to synchronize the DVR time with the registered time server.

Note: NTP is not essential for DVR operation. Any type

of Standard Time Server can be used (e.g. time.windows.com). Time Synch might not be completed due to heavy traffic or delays from the Time Synch server.



SYSTEM : D	ate & Time		
Date & Time	NTP Holiday		
Г	From	To	x
1	XXXX-07-19	KODER-07-19	×
2	xxxx-12-24	- xxxxe-12-25 🔶	x
3	xxxx-08-15	xxxxx-08-15 ÷	×
4	-	-	×
3			×
6		-	×
7			×
8		÷ ÷	x
9	1	÷	×
1		+	X
5	1/8 >		•
	0 K	Cancel	

Press the Holiday tab to setup specific date as Holiday. Add dates by pressing the  $\boxdot$  button. Change and delete dates using  $\boxdot$  and  $\boxtimes$ .

*Note*: Holidays may not fall on the same date every year. Therefore, users have to update the holiday list every year.

#### 2-1-3. MENU > SYSTEM > USER

The admin user can define new users and setup different permissions for each user. To add a new user, press the 
→ button. To delete an existing user, press the 
→ button. To add a new user:

- 1. Enter the username used to login.
- 2. Select a Group associated with the user.

3. Setup a password for a new user or change passwords to existing users.

8	YSTEM : User	_	-			F	User	_
ute	Auto Login - Auto Login -		O'' ) Administrati O'' ) [1 min   •	14 ]	·		User Name : et Group : Administrator •	
1 2 3 4 5 6	User Administrator Event		Broup Administrator Gueet		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
<	1/2 ) 0K	5	Cancel	3			0 K Cancel	

**Auto Login**: Allows users to automatically login after the system boot-up. Since this process does not require any authentication, it is recommended that the DVR has a limited access to non-authorized personnel.

Auto Logout: Set On or Off Auto Logout option.



To register a new group, use the  $\therefore$  button and set the specific permissions for that group. To delete a group, press the  $\boxtimes$  button.

#### 2-1-4. MENU > SYSTEM > QUICK SETUP



The VMAXHD Flex's Quick Startup Wizard is designed to make the installation process of your new DVR as quick and easy as possible. This startup wizard will automatically appear when you first boot up your DVR. It will guide you through setting up some of the DVR's more critical features required for its proper function. The Quick Startup Wizard will take you through setting up the Date & Time, Recording Setup, Network Setup, Storage Setup, and Display Setup. If you do not want to follow the Startup Wizard you can disable it by clicking the [CANCEL] button and adjusting your settings manually via the DVR's main menu.

#### 2-1-5. MENU > SYSTEM > SYSTEM LOG

St32-07-20         04:36:57         PM         Betup: Resert           St32-07-20         04:36:53         PM         Betup: Address           St32-07-20         04:36:53         PM         Betup: Address           St32-07-20         04:27:14         PM         Betup: Object           St32-07-20         04:27:14         PM         Betup: User           St32-07-20         04:27:14         PM         Betup: Date & Time           St32-07:20         04:27:14         PM         Desci & Administrator           St32-07:20         04:23:14         PM         Login: Administrator           St32-07:20         03:23:14         PM         Login: Administrator           St32-07:20         03:22:11         PM         Video Lass: 1         CAM1	Contents	Time
1012-07-30         04-30-65         PM         Betup: Address           1012-07-20         04-30         13         PM         Betup: Address           1012-07-20         04-37         14         PM         Betup: Address           1012-07-20         04-37         14         PM         Betup: Danalay           1012-07-20         04-27         14         PM         Betup: User           1012-07-20         04-27         14         PM         Betup: User           1012-07-20         04-27         14         PM         Betup: User           1012-07-20         04-27         14         PM         Setup: Under Mittain           1012-07-20         03-27         14         PM         Logis: Administrator           1012-07-20         03-23         14         PM         Logis: Administrator           102-07-20	etup: Record	012-07-20 04:30:57 PM
2012-07-20         04:30:13         9M         Setup: Address           2012-07-20         04:27:14         9M         Setup: User           2012-07-20         03:27:14         9M         Logis: Administrator           2012-07-20         03:28:11         9M         Logis: Administrator           2012-07-20         03:28:11         9M         Logis: Administrator           2012-07-20         03:28:11         9M         Video Loss: 1           2012-07-20         03:28:11         9M         Video Loss: 1	etup: Address	2012-07-20 04-30-46 PM
2612-07-20         04127:16 PM         Setup: Oraniay           2512-07-20         04127:16 PM         Setup: User           2512-07-20         04127:16 PM         Setup: User           2512-07-20         04127:16 PM         Setup: Information           2512-07-20         04127:16 PM         Setup: Information           2512-07-20         03123:16 PM         Login: Administrator           2512-07-20         03123:11 PM         Login: Administrator           2512-07-20         03123:11 PM         Video Loss: 2 CAM2           2512-07-20         03123:11 PM         Video Loss: 1 CAM1	etup: Address	2012-07-20 04-30-13 PM
2012-07-520 04-27-14 PM Setup: Uter 2012-07-20 04-27-14 PM Setup: Date & Time 2012-07-20 02-71-16 PM Setup: Information 2012-07-20 03-23-14 PM Logist Administrator 2012-07-20 03-23-11 PM Video Loss: 2. CAMS 2012-07-20 03-23-11 PM Video Loss: 2. CAMS 2012-07-20 03-23-11 PM Video Loss: 1. CAMI	etup Oissiay	2012-07-20 04:27:14 PM
2012-07-20         04:27:14         PM         Setup: Date & Time           2012-07-20         04:27:14         PM         Setup: Information           2012-07-20         03:23:14         PM         Login: Administrator           2012-07-20         03:23:14         PM         Login: Administrator           2012-07-20         03:23:11         PM         Video Loss: 2.CAM2           2012-07-20         03:23:11         PM         Video Loss: 1.CAM1           2012-07-20         03:23:11         PM         Video Loss: 1.CAM1	etup: User	2012-07-20 04-27-14 PM
2012-07-20 04:27-14 PM Sebup Information 2012-07-20 03-23-14 PM Login Administrator 2012-07-20 03:23-11 PM Video Loss: 2 CAN2 2012-07-20 03:23-11 PM Video Loss: 1 CAN1	etup: Date & Time	2012-07-20 04:27-14 PM
2012-07-20 03-23-14 PM Login Administrator 2012-07-20 03-23-11 PM Video Loss: 2 CAM2 2012-07-20 03-23-11 PM Video Loss: 1 CAM1	etup: information	2012-07-20 04-27-14 PM
2012-07-20 03:23:11 PM Video Loss: 2 CAM2 2012-07-20 03:23:11 PM Video Loss: 1 CAM1	ogin- Administrator	2012-07-20 03-23-14 PM
2012-07-20 03-23-11 PM Video Loss: 1.CAMI	ideo Loss: 2.CAM2	2012-07-20 03-28-11 PM
had at an an at an and a part of a start a	Ideo Loss: 1.CAMI	2012-07-20 03-23-11 PM
2012-07-20 03-22-09 MM   System startup	yatem startup	2012-07-20 03-22-09 PM

In the System Log page, a full list of the system's logs can be searched and exported.

Press 'Reload' to refresh the log list. USE  $\checkmark$  button to search log list page by page.

Log list can be exported in text format to a USB device.

# 2-2. DEVICE

PTZ Control

Under the Device menu, Device configuration options for Camera, Audio, Alarm, Keyboard and RS232 & RS485 (POS/PTZ/Keyboard) connections can be selected.

#### 2-2-1. MENU > DEVICE > Camera



Select channel connected with PTZ

camera's address (0~255) and control

PTZ models from the drop-down

supported models. If applicable,



camera. Select menu of adjust the speed. The movement when

speed indicates the speed of

controlling the camera. Select from 1 to 10, with 5 set as the default value.

*Note*: PTZ can only be controlled in single screen mode.

Use the virtual PTZ icons on screen to control a PTZ camera. By using the USB mouse, click on the arrows to move the PTZ camera around.

	۲	Zoom Out
P a crist v	٩	Zoom In
	₿	Focus on near distance
	Ш	Focus on far distance
	I	Save Presets
	0	Load Presets

	Day		From - Ta		Mod		Camera		X
4	ALL	-	00:00 - 24:00	÷	High	+	1,2	*1	X
2	BAT-BUN	*	00/00 = 24/00	÷	Low	+	1,2		X
3			1 3	÷				**	8
4.	10 7	•	Q (0)	÷		+			X
ā.			1 23	÷		•		**	X
6			8	4				به ا	X
7.			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	÷					R
			1 33	÷				*1	X
4		٠	1	÷	_	+		به	X
10	21 2		1	÷					X

#### **Covert Setting**

Covert setting allows you to setup individual channels to appear disconnected for privacy while monitoring. If Covert is set, live or playback image will not be displayed. Covert can be scheduled by day, time and mode for each individual camera.

**Covert Low Mode**: Will not display video image on screen but OSD will be displayed. **Covert High Mode**: Neither video image nor OSD will be displayed on screen.

*Note*: Any Covert options will not affect recording data as it is applied on monitoring conditions only.

#### 2-2-2. MENU > DEVICE > Audio



Select to enable or disable audio from the camera for audio recording. Each Camera and Audio can be linked regardless of its channel numbers.

#### 2-2-3. MENU > DEVICE > Alarm



Alarm duration: Set Alarm activation time from 5 seconds to 10 minutes.

Select Schedule tap to schedule Alarm operation. Alarm can be set by day, time, mode and inputs (camera).

_	80	hedule3 :	Alarm					
_	9	AL A DAVI	Alarm				 Alarm	ł
2	笝	ALARM2				10.000		
_					-			
				DК		Cancel		

Press I to choose an Alarm and set a Buzzer with Alarm activation.

#### 2-2-4. MENU > DEVICE > Keyboard



Press  $\hfill \hfill \$ 

#### 2-2-5. MENU > DEVICE > RS232 & RS485



Press  $\begin{array}{c}$  to select a device for each port from the supported devices list.

Both communication ports support: Text-In (POS) device, PTZ, and Keyboard.

*Note*: Text In devices (e.g. Cash Register) needs to use ASCII code for Text In info on DVR. Consult the Text-In

device's manual for more information.



# 2-3. DISPLAY

Set display configuration options and composite outputs from this menu.

#### 2-3-1. MENU > DISPLAY > Display

DED	Hanitoring	Resolution	PHP
	Hic Vertica Horizonta	Languago ( e Statua Dar ( 1 OSD Hargin ( 1 OSD Hargin (	English + 017 10 se + 4 1+ 4 1+
		DK )	Cancel

**Language**: Select the system's language. Press to select one of the available language options.

**Hide Status Bar**: Select On/Off and time to hide Status Bar when system is not in use.

**Vertical OSD Margin**: Set vertical OSD margin on screen.

**Horizontal OSD Margin**: Set Horizontal OSD margin on screen.

DISC	Honitoring	Resolution	an l	
	Sequence	e Interval - 10 sec	2	
		E Eve	nt Pep-up	
		Canera	12	44

**Resolution:** Set resolution of HDMI

**Sequence interval**: Set switching time between camera displays in sequence mode.

**Event popup:** Popup a camera's image in full screen when an event occurs.



and VGA output.

asp	Maniforing	Resolution	PIP	
		Size I O	-	
		Position : O		
			-	
			-	
			-	

**PIP**: 'Picture In picture'. Select size and position of sub channel in comparison to the large image display.



#### 2-3-3. MENU > Display > Spot

Note : Blue color displayed when there's no spot output signal.

DISPLAY : Spot
Display Monitoring
Video Type - NTSC
Aspect Ratio
O K Cancel

#### DISPLAY

**Video type**: Select type (NTSC/PAL) for composite output. (Default: NTSC)

**Aspect Ratio**: Select video output ratio on composite output. Select from the available options:

**1. Letterbox -** In Letterbox, output is set at 16:9 ratio. This option will display a camera's image with black

space at the top and bottom of the display with the camera's image itself displayed in 4:3 TV monitor. This option is suitable for displaying a 16:9 image in a 4:3 monitor.

**2. Pan & Scan -** In Pan & Scan, outputs 4:3 ratio. This option will display the camera's image without side margins due to screen size. This option is suitable for 4:3 TV/Monitor.

**3. Widescreen -** In Widescreen, output is set at 16:9 screen ratio. This option is suitable for 16x9 TV monitor.

DISPI	AY : Spot			
Display	Monitoring			
		2 E	vent Pop-up	
	Sequence Inter	val i 10 i	80C. <b>T</b>	
	Spot 1 2	Cam	47 47 47	
	ОК		Cancel	

#### Monitoring

**Event popup**: Output to spot monitor when an event is triggered.

**Sequence Interval**: Set interval of spot monitor's sequence time.

**Cameras**: Select cameras for spot monitor output.

#### 2-3-4. MENU > Display> Digital Signage

gital Signage	Schedule			
initiate	Digital Signage -	0##	t min.	
Pictu	ra Interval (sec) -	Video	10	10

**Initiate Digital Signage:** Set the start time for the digital signage feature.

**Picture Interval (sec):** Display image or video clip with this feature. Select image to display and set time duration of the display.

**Import**: import pre-defined digital signage data. For more details how to make digital signage, see *Appendix C. make digital signage*.

	Ony.	1	Frem - To		Hode		×
1	ALL	+	00-00 - 24-00	H	On	+	х
2	MON-FRI	+	00-00 - 24-00	F÷.	On	17	X
3	SAT-SUN	Ŧ	00:00 - 24:00	÷	On		×
4		•	5	ㅋ	Off	•	×
5	e	¥	-	÷	Off	•	×
ő.	2 19	+		1÷	OU		×
7	8 3	-		F	DIT		8
8	2		1	÷	017	•	×
9	2 2	÷		P	Off.	•	X
伯	1 1	Ŧ		÷	Off .		12

**Schedule:** Set the schedule for different monitor displays by time, and day of the week. Digital signage display by schedule will be displayed automatically.



# 2-4. RECORD

Under Record menu, setup recording configuration options for Storage, Record and Record Tools.

#### 2-4-1. MENU > RECORD > Storage

ge E.M.	A.R.T.	131		[HOD 4 Ja] Bernd
Capacity	type	Unage	Status	(100 1 17 100 00 00 00 00 00 00 00 00 00 00 00 00
69.97.68	HOD	Record	Goed	2012-07-12 09:01:29 AM - 2012-07-12 09:25 45 AM
				2012-07-11 04-19-03 PM ~ 2012-07-11 05-09-58 PM
			Format	2012-07-11 04 18 04 PM - 2012-07-11 04 18 67 PM
Record -	2012-07-1	11 D6-18-37 AM - 20	12-07-12 11-28-14 AM	2012-07-11 00:18:10 PM - 2012-07-11 04:09 46 PM
		and the second		2012-07-11 03-09 07 PM ~ 2012-07-11 03-17-44 PM
1	<u> </u>	69.67.58.7.69	97.68	2012-07-11 06:18:37 AM - 2012-07-11 03:01:44 PM
			Detai Reload	
				FE 1/1 [5]

In Storage, view all currently installed/connected storage devices and their status including: Capacity, Type, Usage and Status.

Format: Select Format to format a selected HDD.

**Record**: Displays the current recording period and data stored on HDD.

Detail: Displays detailed information on the data stored on HDD

RECORD	: Storage	
Storage S	MART.	
E	Status 1 Good	Temperature
	2	-1 wat P
		Reload
	Circle	
	Close	•

**S.M.A.R.T:** HDD status is being displayed including its temeprature. Click Update to get the latest status.

#### 2-4-2. MENU > RECORD > Record



In **Record**, general recording options can be selected including overwrite when HDD is full, recording resolution and speed, recording quality etc. **Overwrite**: Select this option to overwrite recorded data when HDD is full.

**Auto Deletion (days)**: system will automatically delete data older than defined days.

Resolution: Select recording resolution.

Time Record: Set FPS/quality for continuous recording.

**Event Record**: Set FPS/quality for event recording.

Emergency Record: Set FPS/quality for emergency recording mode.

*Note*: The FPS needs to be set higher than 1FPS for Audio recording at D1 or Half D1. Otherwise, there would be time delay between recorded Audio and Video.

Pre-Event Duration	011	10 sec.	
margancy Record Duration	No Limit	1 min	•
Event Record Duration /	1 min. 💌	1.	

In **Event**, pre and post recording options for Event can be set.

**Pre-Event Duration**: Video right before an Event can be recorded by setting Pre-Event under Event Mode. Pre-Event recording can be set up to 30 seconds.

**Emergency Record Duration**: Time duration can be set for Emergency recording from 5 seconds to 30

minute or continuously by selecting 'No Limit'. **Event Record Duration**: Set recording duration for events up to 30 minutes.



In **Schedule**, fully detailed and specified recording schedules can be set by day, time, modes, cameras and recording options.

Press  $\boxdot$  to add a new schedule.

Press  $\overline{X}$  to remove an existing schedule.

Press 'Setting' to set recording options.

**Use Default Setting**: Set the DVR to the default recording settings.



#### 2-4-3. MENU > RECORD > Utilities

RECORD : Utilit	es	
Recording Status	Storage Capacity	
	Status	
	•	
E	· · ·	
	Reload	
	Close	

In **Recording Status**, current recording options and status are displayed. The page shows Recording Frames, Video Quality, and Resolution for each of the setup channels.

lecording Status	Storage Capacit	У		
	pa Quality	1	Resolution	100
1 2 20	+ Standard		HD	•
2 2 30	- Standard		HD	
				2
				1

In **Storage Capacity**, estimated HDD usage and recording period can be calculated.

You can modify the recording resolution, quality, and FPS. Press 'Calculate' for the DVR to calculate the recording period based the size of HDD available.

*Note*: The calculation results show approximate data only. Same frame rate and video quality does not guarantee

same storage size and recording duration. This is due to the variety of conditions on images such as more/less colors or more/less movements. This situational variance will affect the file sizes more at lower frame rate settings.

Note: approximate size for each resolution - CIF: 360X240, Half D1: 720x240, D1: 720x480

### 2-5. NETWORK

In Network menu, Network configuration options for network Address, DDNS, Remote Notification and Transmission can be set up.

#### 2-5-1. MENU > NETWORK > Address



In Address, Information such as Type, IP address, Subnet Mask, Gateway Port and DNS can be set for network connections.

**Type**: Select type of network configuration from: Static IP, DHCP and ADSL(with PPPoE).

Select **DHCP** if your network supports DHCP and you would like the DVR to assign itself an IP Address automatically based on the network settings.

Select **Static** if your network does not support DHCP, and you would like to access your DVR remotely over the internet. In this case, manually enter all the information below. Please contact your network administrator for more information on your network requirements.

**IP Address**: Enter IP address using the ∃ button.

**Subnet Mask**: Enter Subnet Mask using the ∃ button.

**Gateway**: Enter Gateway using the ∃ button.

**DNS**: Enter the IP address of a DNS server. If you set a DNS Server, domain name of the DVRNS server instead of an IP address can be used during the DVRNS Server setup.

**DNS sever address automatically**: Select this to get the DNS Server Address automatically when. This option is recommended when using DHCP or PPPoE.

*Note*: ID and Password are required in ADSL (with PPPoE) type.

In **Port**, Select the appropriate port number for external access to the system. The port list shows necessary ports to be opened for each operation.

**Network Port**: Set port for DVR Remote Client. Default is: 10101.

Web Port: Set port for Web Remote Client. Default is: 80.

*Note*: Default TCP port is 10101 but it can be set from 1500 to 32000 if it is necessary.



**UPnP Option:** By checking the UPnP option, it automatically sets port on a connected router. *Note*: Router should support UPnP option and if same ports are already being used, DVR will display a message to try other port ranges.

#### 2-5-2. MENU > NETWORK > DDNS

DDNS Server   dvr-ddns.com   v  Hostname   66059555.dvr-ddns.com   v  2 User Authentication D		12 Use DONS	1000
Hostname (6009558; dw-ddm.com e) 22 User Authentication 10 - e) Password - e) Update	ODNS Server	dvr-ddns.com	
2 User Authentication 10	Hostname	- 6606955E.dvr-ddna.com	41
Update	10 Password	User Authentication	e.
		Update	

In the DDNS tab, network options for DDNS can be selected.

**DDNS**: Dynamic Domain Name Server allows dynamic network connections. This option allows you to connect to your DVR using a URL rather than an IP Address. If your DVR is setup to DHCP, a DDNS address will simplify your connection to the DVR by automatically tracking

your DVR's DHCP address once it changes, eliminating your need to track it every time the router changes it.

*Note*: "dvr-ddns.com" and "www.dyndns.org" offer free registrations for DDNS service. Please refer to the appendix for DDNS set up page.

**Host Name**: Name the DVR or site where it is located using the virtual keyboard by pressing *⊡*. **ID/Password**: ID and Password are required for Authentication.

*Note*: Use registered ID/Password in DDNS.

Host Name can also be registered automatically without registration from DDNS Server. Just enter Host Name (not duplicated name) and cancel to check Use ID. After clicking Update button, a message is shown to succeed its status or not.



#### 2-5-3. MENU > NETWORK > Notification

back	2.4	fall			
		Calback Interval 1 1 m	in. I	•	
100	12	Address	100	Port	100
- 13	12	123.123.123.1	4	10110	H.
12	192	abc.abc.com		10110	÷
- 13	10	10002000000000	e	10110	1
12	3			10110	[月]
1.1	12	1.5	1	10110	Ħ
- 17	2	2	1	10110	帮
- 13	12		+	10110	÷.
18	12		14	10110	Ħ
13				10110	胡
- 13	50			10110	

**Callback** notifies multi remote clients when the DVR detects events. Enter an IP address of the client sites to receive event notifications from the DVR. Press ∉ to open the virtual keyboard.

**Callback Interval**: Select Callback Interval to set the time interval between consequential events being sent to

the remote site.



SMTP		
	8MTP Server :	e,
	Part - 25	
	Sender :	e,
	ID ·	4
	Password : *******	e.

In **Email**, Events can be notified to personal email addresses as text message.

**E-Mail Interval**: Select the time interval between consequential events being sent to a remote email.

Recipient: Enter the email address of a recipient. Up to 5 recipients can be entered.

*Note*: Any events that occur between the pre-set interval times will not be sent to remote site. e.g. If the interval is set as 30 seconds, only events that occur 30 seconds after the first event will be sent to remote site.

**SMTP Server**: Enter the SMTP server information. SMTP server information can be obtained from your system administrator.

Sender: Enter the address/name of the sender account the email is being sent from.

#### 2-5-4. MENU > NETWORK > Transmission

In **Transmission**, video streaming can be controlled separately from the recording settings. Adjust resolution and FPS for video streaming from the DVR to a remote client or web viewer. You can also control the amount of bandwidth used by the DVR.

# 2-6. EVENT

In Event menu, user can set event related actions. Events are about Sensor, Motion, Video Loss, Text-In, System.

NETWORK : Transmis	sion		
Limit Bandwidth	(Mbps) :	No Limit	10 :
Mode	ipa	Quality	Resolution
Network Live	60 H 8	tandard	* HD *
	ВК	Cancel	_
EVENT / Sensor		]	
Sensor Record Aler	n Note	ICAULOD F	Carlos Ca
1 M SENSOR	100		+ NC +
E M SENSORS			+/ NO +
E M EMERGEN	VCY .		+ NC +
	K	Cancel	

#### 2-6-1. MENU > EVENT > Sensor

In **Sensor**, each sensor can be selected for activation and its type. The DVR supports a total of 4 sensors, with one sensor reserved as Emergency recording sensor. When the emergency sensor is activated it will follow the emergency recording settings. Select Sensor Type using  $\$  button. **NC**: Normally Closed

NO: Normally Opened



In **Record**, each sensor can trigger actions to single and multiple cameras. Press  $\blacksquare$  to select cameras to be activated for each sensor.



In **Alarm**, each sensor can trigger actions single and multiple alarms. Press  $\blacksquare$  to select alarms to be activated for each sensor.



In **Notification**, each sensor can trigger actions in single and multiple callbacks or emailing to sites. Press I to enter callback or email address to be activated with each sensor.


PTZ preset (position) can be set for cameras in the event of Sensor activation. Preset feature on **PTZ** camera can be activated by a sensor triggered. When Event occurs, PTZ moves to the preset position.

PTZ camera activation can be set only for Sensor/Motion/Video Loss events. If there are multi events occurring at the same time, it takes events in the following order: Sensor > Motion > Video Loss.

#### 2-6-2. MENU > EVENT > Motion



In Motion, setup Motion Detection, Sensitivity, View and Area options.

Camera: Check the box next to the camera to enable motion detection.

Sensitivity: Select motion sensitivity from very Low to Very High. (Default is normal).

**Area**: Define the area for motion detection in the camera's Field of View. Press **Setup** under Area to define motions detection areas.

The blocks indicate the area where motion detection is active.

**Select Block**: Using the USB mouse, click on the motion blocks you want to enable or disable. **Clear Block**: Deselect all blocks inside a box.

Select All: Select all blocks on entire screen.

Clear All: Deselect blocks on entire screen.

View: View the appearance of motion zones on screen when motions is detected.





ETERT PROMI	
Motion Record Alarm Notifical	tion PTZ
Camera	Notification
1 CAMI	1.2 +/
2 CAM2	11 +2
OK C	Cancel
EVENT : Motion	
EVENT : Motion Motion Record Alarm Notifica	tion PTZ
EVENT : Motion Motion Record Alarm Notifica Camera	PTZ
EVENT : Motion Motion Record Alarm Notifica Carriera Carriera	P12
EVENT : Motion Notion Record Alarm Notifica Camera I CAM1 Z CAM2	PTZ PTZ 1 44 2 44
EVENT : Motion Motion Record Alarm Notifica Carriera 1 CAM1 2 CAM2	PTZ 1 4 2 4
EVENT : Motion Motion Record Alarm Notifica Camera 1 CAH1 2 CAH2	012 1 + 2 +
EVENT : Motion Motion Record Alarm Notifica Carrers 1 CAM1 2 CAM2	800 PTZ 1 + 2 +/
EVENT : Motion Motion Record Alarm Notifica Carrere 1 CAM1 2 CAM2	6000 PTZ 1 #2 2 #2
EVENT : Motion Motion Record Alarm Notifica Camera 1 CAM1 2 CAM2	012 1 (+) 2 (+)
EVENT : Motion Motion Record Alarm Notifica Camera 1 CAHI 2 CAM2	012 012 1 4 2 4
EVENT : Motion Motion Record Alarm Notifica Camera I CAMI Z CAM2	PTZ PTZ 1 4 2 4

In **Notification**, each camera with motion can be synchronized with single and multiple callback or emailing sites. Press ext{ I to enter a callback or email address for motion events.

**PTZ** can be connected to Motion event using the camera's preset function. If Motion is detected, a PTZ camera moves to a predetermined position.

#### 2-6-3. MENU > EVENT > Video Loss

	]
Record Alarm Notification P	IZ
Camera	Record
1 CAMI	2 +
2 CAM2	1 +
OK [	Cancel
EVENT : Video Loss	1
Record Alarm Notification P	IZ
Record Alarm Notification P	Alarm
Record Alarm Notification P Carriera 1 CAM1	Alarm 1.2 +
Record Alarm Notification F Carrera 1 CAM1 2 CAM2	Alarm 1.2 44 B 44
Record Alarm Notification F Carriera 1 CAM1 2 CAM2	Alarm 1.2 + B +
Record Alarm Notification F Carriera 1 CAH1 2 CAH2	Alarm 1.2 +i B +i
Record Alarm Notification P Carrors 1 CAM1 2 CAM2	Alarm 1.2 (+) 16 (+)
Record Alarm Notification R Carners 1 CAM1 2 CAM2	Alarm 1.2 (+) B (+)
Record Alarm Notification P Camera 1 CAM1 2 CAM2	Alarm 1.2 (+) B (+)
Record Alarm Notification F Carriera 1 CAM1 2 CAM2	Alarm 1.2 +/ B +/
Record Alarm Notification F Carrers 1 CAH1 2 CAH2	Alarm 1.2 +/ 8 +/

In **Video Loss**, single or multi cameras can be synchronized for event recording when there is a video loss. Press I to select single or multi cameras to start recording when video loss is detected.





In **Notification**, each camera with video loss can be synchronized with single and multiple callback or emailing sites. Press ildest to enter callback or email address to be sent when video loss is detected.

EVENT : Video Loss

Record Alarm Notification PTZ

Cerrera PTZ

CAH1 2 +

2 CAH2 1 +

0 K Cencel

**PTZ** can be set to move to a preset position when Video Loss is detected. If Video Loss occurs, PTZ moves to the position set in the preset.

#### 2-6-4. MENU > EVENT > Text-In



The system allows Text In from POS/ATM machines.

*Note*: For use of POS/ATM, the system must support generic ASCII code.

To setup POS connection, make sure the POS device is properly connected to the DVR using the RS-232 port. Consult the POS's manual for more information.

To enable POS connection, check the box next to the corresponding protocol used. Go to **Setup** for more configuration information.

**Text-In Model**: Select Text-In model from the list of supported devices.

**Transaction Begin**: Enter a word which the transaction info to be displayed on screen as a start.

**Any Character**: Check Any Character to start display a text with any character as a start. **Transaction End**: Enter the word that should be associated with the last line where the transaction info to be displayed on screen.

Ignore String: Enter a word to ignore strings of text that include the selected word.

Line Delimiter: Enter a symbol or a word to distinguish the end of lines.

Case Sensitive: Select Case Sensitive option to distinguish a word with case sensitivity.





In **Alarm**, text event can be synchronized with single or multi alarms. Press  $\textcircled$  to select alarms to be synchronized with text event. If B is selected, system will buzz on alarm activation.



In **Notification**, text event can be synchronized with single and multi-callbacks or emailing sites. Press I to enter callback or email address to be synchronized with text event.



In **PTZ**, each text input can be synchronized with single and multiple cameras. Press  $\textcircled$  to select cameras move to a predefined preset when text-in is activated.



#### 2-6-5. MENU > EVENT > System

lynten	Alarm	Notification	-		
	Storage F	SUR (%) 10	Ó	13	
	MART. Th	ashold + 45	07.1497	-	

In System, S.M.A.R.T function monitors storage conditions such as Temperature, Conditions, and Recording.

Storage Full option can be set to notify users of HDD storage usage level. Warning message can be notified in various ways as described below.

S.M.A.R.T Threshold allows to setup tolerable temperature level of storage. If HDD temperature increases over preset temperature, it will notify a user in various ways according to following settings.



In **Alarm**, each system event can be synchronized with single and multiple alarms. Press *∎* to select alarms to be synchronized with each event. If Alert is selected, system will pop up a warning message on the screen.



In **Notification**, each system events can be synchronized with single and multi-callback or emailing sites. Press  $\textcircled$  to enter callback or email address to be synchronized with system events.



# 3. Playback

The system provides various playback menus to search recorded data. Right-click on 'Search Mode' and select the desired storage type. If backup data is selected, the data on external HDD can be searched.

Live: Administrator		
Camera	>	
OSD	>	
Freeze		
Display	>	
Audio		
PTZ		
Backup		
Playback	>	HDD
▼ Emergency Record		Backup Data
Log		
Setup Menu		

Playback: Administrator	
Camera	≻
Go to	<
Calendar Search	
Event Search	
Text-In Search	
OSD	≥
Zoom	
✓ Audio	
Backup	
Storage	≻
✓ Emergency Record	
Log	
Exit Playback	

**Camera**: Select camera number from 1~4.

**Go to**: Search recorded data by time/date. Move to the beginning or end of recorded data. Also search data by 5/10/15/30/60 seconds backward from the current live time.

Calendar Search: Search by date from calendar.

**Event Search**: Search by event from event list.

Text-In Search: Search by text-in event from event list.

**OSD**: Select OSD display options during playback.

Zoom: Zoom in image by x2, x4, or x8.

Audio: Select Audio outs.

Backup: Select backup or Clip Copy option.

**Storage**: Select HDD or Backup Data to playback.

**Emergency Record**: Start Emergency Recording.

Log: Select System/Event log.

**Exit Playback**: Exit Search Mode and return to Live Mode.

## 3-1. Go to Time



**Go to Beginning**: Move to the very first recorded data. **Go to End** : Move to the latest recorded data.

# 3-2. Calendar Search



Calendar Search provides easy graphical search by displaying days with recorded data marked on the timeline. Dates with recorded data will be highlighted. Once you select the date, it will display a record time table.

The numbers on the top of the table show the time frame in 24hours format. Titles on the left indicate the camera's channel. The color bar shows the full information of recorded data on the selected date. Move the indicator (red line) to select specific recorded time of the selected date. For a detail display of recorded data press Detail.

Once desired settings are completed, press 'Go To' to begin playback.

## 3-3. Event Search

Time	Event All		
2012-07-12 11-28-09 AM 🔮 2 CAM	£	*	
2012-07-12 11:28:09 AM 🗳 2.CAM	2	47	
2012-07-12 11:28:04 AM 📓 1.CAM	t	÷*	
2012-07-12 11-28-04 AM 🖉 2.CAM	2	14	
2012-07-12 11:27:59 AM # 1.CAM	1	47	44.4.11
2012-07-12 11:27:54 AM 🖉 2.CAM	2	14	¥ All
2012-07-12 11:27:64 AM 🥥 1.CAM	1.	44	Motion
2012-07-12 11:27:49 AM D 2.CAM	2	44	
2012-07-12 11:27:47 AM 🥥 1.CAM	10	42	Sensor
2012-07-12 11-27 43 AM & 2.CAM	ž –		Video Loss
	19	Reinard	THEO LOSS
I with FELFERI		Louisense	Text-In
Cie	ie ]		Emergener

Event Search provides easy search by event list. Select the date and type of event to find specific data.

All: System displays all event types.

Motion: System displays every event related to Motion.

Sensor: System displays every event related to Sensor activation.

Video Loss: System displays every event related to Video Loss.

Text-In: System displays every event related to Text In.

Emergency: System displays every event related to Emergency Recording.

#### 3-4. Text-In Search



Text-In Search provides easy search by transactions. Search for Time and Transaction information. Press Search for detail information.

From: Set beginning time to start search or select First for search from the first data.

To: Set end time to end search or select Last for search to the last data.

**Search Text**: Enter any words to search text data include the words. If Case Sensitive has been enabled in the Text-In setup page, word search will also be case sensitive.

Press OK to start Text In search.



## 3-5. Backup Data Playback

Device (	U88 Storage (A - 1) = Reload U88 Storage (A - 1) 000 (B - 2) USB 000 (C - 2)
	<b>R</b> 1/1 <b>D</b>

Backup files on backup media can be played on DVR. Insert the media with backup files and select a file to playback it on DVR.

## 3-6. Playback Control

**A IIII IN PRUSE R. Play**: Reverse Playback. **Step Backward**: Go to the previous image. **Pause**: Freeze or Stop current image. **Step Forward**: Go to the next image. **Play**: Play the data at normal speed.

To control the backward and forward playback speed, press on  $\blacktriangleleft$  or  $\blacktriangleright$  repeatedly. Playback speed can increase up to x32.



# 4. Backup

Recorded data can be backed up on USB Flash memory drive. During Search or playback, right click on the screen and select Backup. Select backup or Clip Copy option.

OSD Zoom	2
√ Audio	
Backup	Backup
Storage	Clip Maker
V Emergency Record	
Log	

# 4-1. Backup

In the **BACKUP**, the recorded data can be selected for backup to USB devices.

Press **USB Device** I to select the type of USB Device connected to the system.

Source : R	ecord .	-		
Device -		-		
File Name : u	ntitled	+*		
From -	2012-07-31	THE C	00-45-29 PM	Ю
To :	2012-07-31	H [	08-45-29 PM	H
Carrera -	1.2	1.1		
	DVRMediaPlayer			
Status - P	lease insert Media		<u></u>	pdate

Select **Camera** number to be backup or All to back up all the data recorded during the selected period. To back up recorded Audio with video data together select **Audio**.

**Status** shows capacity of the device being prepared for backup, and it will show backup progress during backup.



The files are backed up in a DVRMediaPlayer (.exe) format. This allows multi camera backup and the files would not require any specific codec for playback on PC. To open and play a file saved in DVRMediaPlayer (.exe), double click the file and it will automatically be played on Internet Explore window. This function is supported only on Internet Explorer 7.0 browsers or higher. *Note*: The backup process could be slowdown if the system is being monitored/playback on the remote using the client program during the backup process.

# *Note: "DO NOT remove back up media while data backup is being processed. It may cause critical damage to either media or system."*

*Note*: During the CD or DVD back up the ODD door could be opened and closed as part of the backup process. Please do not remove CD or DVD during the back up until the backup process is complete.



# 4-2. Instant Backup

Press the backup button to start Instant Backup during the playback. Instant Backup window will appear during the normal playback mode. Select Device, File Name, and Audio and press Start to continue. The Backup Icon will appear on the screen during the Instant Playback. Press backup button one more time to stop and complete Instant Backup.

# *Note: "DO NOT remove backup media while data backup is being processed. It may cause critical damage to either media or system."*

Note: Playback speed may slow down while instant backup is processing.

#### 4-3. Clip Maker



Clip Maker allows creating single channel backup file which can be played on any PC. During playback, right click on the screen and select backup, then select Clip Maker.

Press the Start button to create a clip. Use Quick Time player to play the file created using Clip Maker.

*Note*: Clip Maker file cannot be played on other programs such as Window Media Player.





**Chapter 4** 

# **PIVOT PRO SOFTWARE USER MANUAL**



# 1. What is Pivot Pro

# **1.1.** Product description

**Pivot Pro** is powerful, feature-rich network management software. A variety of DVRs, servers, and IP cameras can be connected and centralized to a single window. **Pivot Pro** is not only efficient to watch video, but it is also easy to control the connected DVRs and IP cameras from anywhere.

<b>警</b> 竖曲 ]		<u>a</u>			3			
	-	Bueb	~ E				-	 
Tead Server	*	1121		- 225		225		
				***				
0								
The lat						-		
		Tree Page 111	1000					

#### 1.2. Features

- Remote Setup available on various DVRs, Servers and IP cameras
- Professional Alarm monitoring and reports
- Health Check (video, recording, Disk status, storage failure)
- Remote POS support
- Multiple device search available (PC DVR)
- Multiple monitor supported (Windows XP or higher required)
- Simultaneous searches up to 64 channels
- Records live video with IRS server
- Monitors the status of devices from anywhere
- Auto notification by e-mail or triggered events
- Actions on alarm(image capture, sound and screen popup)
- Digital Watermarking to prevent counterfeiting



# 2. Getting Started

# 2.1. Installing Pivot Pro

- 1. Check Setup file and click 'next' button on below
- 2. If necessary, modify the directory where Pivot Pro will be installed.
- 3. Select to add a Shortcut on the Startup menu folder.
- 4. Select to create Desktop icon and Quick launch icon.
- 5. Check status and process installation.

Del

- 6. Progressing installation
- 7. Installation completed



## 2.2. First Starting Pivot Pro

1. Run 'Pivot Pro' on 'Start'->'Programs'->'Pivot Pro'



NOTE: Pivot Pro is provided 30days trial version before registration

 System will prompt you to set a new password for Administrator. Set your own password and then log in with new password (recommended).
 Only Administrator allow to user's auto log in.
 Check 'Save Auto Login User' option on Authentication dialog and input admin's password/

N	User ID	administr	eto (
	Password		- Co

**NOTE**: Default ID/PW is 'administrator' and <blank>.

Authentication				1	
Une Une	a 10	administra	akor	3	
Par Par	Allow	user to auto	matically log	Lin .	×
😨 Save Auto-login User	Admin	password			
			- Ok		iencel

3. After logging in, you will see the main Pivot Pro windows below. See section *3. Pivot Pro Look*, for more information.



# 3. Registration

Pivot Pro is provided free with a 30days trial version. To use Pivot Pro continuously, you should register licenses. To register your software, please contact Digital Watchdog's Technical Support at (866) 446-3595.

#### How to register license:

- 1. Go to 'Menu->Register'.
- **2.** The Pivot Pro software must be closed before the registration process can be completed. Click OK to accept.
- **3.** If you are using a computer or server with dual network cards, select which network connection to use to register the software.

Registrer NxMS	×
Register	
Ethernet Adapter	802.11n USB Wireless LAN Card 🔹
System ID	4CF0CE3D7E53B5
License Key	-
	Register

- Provide Digital Watchdog's Technical Support team with your System ID. They will provide you with a License Key to activate the software.
- **5.** Enter the license key and press the 'Register' button.
- **6.** License registration is completed. The new license will appear in the list of Licenses as seen in the image below. The system will also indicate at the bottom of the registration window how many licenses are currently used for both analog sites and IP cameras and servers.

gither MMS			-
Tingdar Elferret Aslaptes	882.15m(158.0	riven LAN Colt	*
System (D	40/10230725	aes	
Liona Key			
	Single	- Salar	
Gene			
Car.		bre	
ND0020825-0E302	112¥€ 0	100	
(Hand Count) 10 Yours - D	1		
a. 1994 ( 19	Server (ibe	8: 	
			_

- Some Operating system may require to run Pivot Pro 'run as administrator' to complete a proper registration.
- No functional differences in Trial version.



# 4. Pivot Pro Look

Pivot Pro's main window is shown when you start running Pivot Pro. This consists of three parts: Main Menu and Tool Bars, Control Tabs, and Display Pane.



## 4.1. Main Menu & Tool Bar

**Menu:** includes the following– **File**, **Device Management**, **View**, **Window**, **Tools**, and **about**. **Toolbars:** Enables you to quickly access the different menus, including: Log Off, Settings, Server List, Windows List, Map feature, Hot Spots, Live Display, Health Check, Log reports, Alarm Monitor settings, Search video, Device Configuration, and different searching options.

#### 4.2. Display Area

**Live Toolbar:** Enables you to control live screen and switch to another live screen mode. **Live Screen:** Shows a channel's live video.

Live Screen Info: Displays page number and channel number being selected.

#### 4.3. Device List

**Server List:** Displays the status of the device you've added. You may also add, modify, and delete a node and also configure details of a device.

**Switching Tab:** Click each tab to switch the list displayed above to – **Server**, **Window**, **Map**, and **Hot Spot**.

#### 4.4. Switching Tab

Click each tab to switch the list-Server, Windows, Map etc.



# 4.5. Adding Displays

To add a display tab, move display and click one of display menu. Once you choose all display, it displays as follows and you can move to other display by each tab click.





## 4.6. Split & Merge Displays

Use can split display tabs as separate windows or merge them back into the main screen. To split out a display tab, click desired display tab and Drag out side and drop. This shows outline of display and it is separated from main. To merge separated display, Drag separated window and move to the center of Main display and drop it.





# 5. Adding, Updating, and Deleting Connections

There are multiple ways you can access the Pivot Pros' Device management window:

- 1. Press the settings button located at the top left-hand corner of the screen.
- 2. Go do Menu > Settings
- 3. In the Device List Panel, right click anywhere on the empty space and select 'Add Device'.

Live Setup DVR List Setup	Code	Servet Name	Econom.	100	and the second sec
DVR List Setup	ARRANGES		C TRUMP	02	Port
Health Check Setup Alam Monitor Event Grouping PDS Admin 2 Unan	00000000 00000000 000000005 000000005 000000	VMAX480 VMAX9HD VMAX9D1 Demo MD4210 Teleno VMAX1HD Res VMAX560H Res	DVR Group DVR Group DVR Group DVR Group DVR Group DVR Group	72 243 193 216 72 243 193 205 72 243 193 205 72 243 193 200 72 243 193 200 72 243 193 221 72 243 193 221	9010 5445 2000 7000 10101 9010
🕐 E-44ai	Company DVR Informati	Digital WatchDog +   Mi	del: PCDVR PCDVR PDWCMDW210		p <sup>o</sup> Finder
	Server Name		TH DWC-MPA20M DWC-MPT220X		êdd
	IP / URL	0.0.0	Mi Legacy reries		
	Port	2000 -	VMAN DWVF15 F4 VMAN DWVF4	-	No Days 20
2	Come ID	Administrator	Fire Dept No		Distantia and
	Password	E	Ele: #T		
3	Group	OVR Group +	Elic #2		
	Talk.	New Type(Default) -	1		

#### 5.1.To add a device:

- 1. Model Name: Select the server's model from the drop down options.
- **2. Server Name:** Input a text for **Server Name**. **Server Name** can be up to 40 characters.
- 3. IP/URL: Input a IP address or URL of a remote device.
- **4. PORT#:** Input a **Port Number** being used on the device connection. Please consult your DVR or IP camera's Network settings to locate this information.
- **5. User ID:** Type **User ID** to access to a remote device. Please consult your DVR or IP camera's Network settings to locate this information.
- **6. Password:** Type **Password** to access to a remote device. Please consult your DVR or IP camera's Network settings to locate this information.
- **7.** Group: Input a text to create a new Group or join an existing Group. The default Group is a DVR Group.
- **8. ADD:** Click **Add** to add new connection into Connection List. (*To add more nodes, go back to number 1*) and follow the procedure from number 1 to (8) again.)



## 5.2. Updating a device:

- 1. Open 'SETUP' page and move to 'DVR List SETUP'
- 2. Select a node you'd like to modify from 'DVR List Setup'
- 3. Make changes with DVR information/Additional information
- 4. Click 'Update'.

#### 5.3. Deleting a device:

- 1. Open 'SETUP' page and move to 'DVR List SETUP'.
- 2. Select a node you'd like to modify from 'DVR List Setup'
- 3. Click 'Delete'.

# 6. Connecting, Assigning, and Arranging Channels

## 6.1.Connecting Device Descriptions of ICONs

Icon	Description	
	A device in a state of NOT being connected	
	A device in a state of trying to establish a connection	
<b>3</b>	A device in a state of being denied to the current user.	
- <u>-</u>	A device in a state of being connected	
- <u></u>	A channel NOT being displayed on Live Screen	
<b>1</b>	A channel being displayed on Live Screen	
1	A channel NOT being recorded – <i>only for the device that is able to record a live video</i>	



## 6.2. Single Connect

- 1. Right-Click any node you'd like to access to
- 2. Click 'Connect'.
- The icon next to the selected device will change to
   meaning the device is connected.
- 4. Click on the '+' icon next to a DVR name to

expand the device's list and view all cameras connected to the DVR

#### 6.3. Group Connect

You may also establish a connection with multiple devices in the same group or all ones in **Server List** at the time. This function is active only on the device item - , not on the group item.

- 1. Right-Click == item in the group you'd like to make a connection with.
- 2. Select Group Connect to connect all devices in the group or Group Disconnect to disconnect all devices in the group.
- 3. You can notice 📼 is changed into 🛃 when Pivot Pro finish establishing a connection.
- 4. After connecting to devices, you can expand/collapse each camera and examine its state by clicking `+/-`.

# 6.4. Assigning a channel into a live screen by Drag & Drop

Pivot Pro enables you monitor all channels in live video mode. you can also select only specific cameras from each device and arrange them on the Live Display Panel anyway you want.

🖃 😂 DVF	} Gro Site∆	up
	₽	Connect
		Disconnect
		Restart Device
	$\bigcirc$	Group Connect
	3	Group Disconnect
		Connect All Camera
	10.00	Connect Air Camera

**Lonnection List** 



Connection List	
E DVR Group	
# dl SteA	
😑 💒 Sãeli	
NE 104	
*F 20H	
KB JCH	
KB 4CH	



#### 6.4.1 Simultaneously assigning all channels into live screen

- 1. Right click 🛃 item and go to connect all cameras.
- After the step 1, you could notice those cameras in the connect list are assigned on the live screen area in channel –Numerical order and the <sup>™</sup> turns into <sup>™</sup>.



DVR Group	6
	TEST
	Connect
	Disconnect
	Connect All Camera
	Disconnect All Camera
<b>a</b>	Show All Channels

- 6.4.2 Assigning a channel into a live screen by Drag and dropping
  - 1. As you see the picture below, select any camera 📹 🔨 you'd like to monitor.
  - 2. Drag and drop in on any Live screen you'd like to assign into





### 6.4.3 Assigning a channel into a live screen by double clicking

- 1. Double-click any camera 📹 🔨 you'd like to monitor.
- 2. The channel with a camera is assigned into the first empty live screen for now.



3. The channel you double-clicked will show up in the first empty Live Screen.





#### 6.4.4 Rearranging Live Screens

- 1. Select a live screen needed to move to another
- 2. Drag and drop it on any live screen you'd like to place.
- 3. Once you complete steps #1 and #2, you may notice the **Live Screen** you've drag-and-dropped is rearranged. To be accurate, two channels have been exchanged for each other's **Live Screen** position



#### 6.4.5 Closing Live screen

- 1. Right click a live screen you'd like to close
- Go to close
   \*not every live screen is affected by applying step 1 to 2 except when selected.



	Start	
	Pause	
	Close	
13	M Close stion	•
2	Live Capture	

To clear all live screens, press the 🌌 button on live tool bar.

# 7. Features on Live mode

Server List in Control Panel displays a list of devices. You can efficiently examine the status of your channels in each device. Also, you can obtain any information such as name, type, and version of device. You can also quickly search Server List for a particular device.

#### 7.1. Finding a server

Find Server enables you to quickly and easily find a node among the nodes you've added on server list by its name.

- 1. Expand Find Server by clicking on `+'.
- 2. Either type Server name in Text box or select one from dropdown list by clicking on `▼' as you see the picture.







7.2. Getting Details with a Device

portion without going to DVR list setup.

Expand Information by clicking on `+'.

1. Double click the desired live screen and the Live screen will be displayed in the single screen mode.

2. Double click the live screen to return the multiple Live screen mode.

This toggle button makes Server List display only nodes connected.



You can easily to get the details such as a type, IP, channel and maximum frame, with any device from information

e 🔤 visitini e 🔤 visitini		
In Find Server		_
Connection List		
은 성업 GA 4년 450% 4년 551% 4년 551% 4년 551% 4년 551%	NISTRATOR Internet Internet Devicing	
al information		

🖸 🔂

HundServer.

Jonnechan List









# 7.4. Full Screen Mode

To Switch to full screen mode, click 🧰 on Live display tool bar and select.

To exit full screen mode, right-click a live screen and go to fit to windows or press ESC button on the keyboard.



#### 7.5.To Pause Live Video

- 1. Right click the Live screen you'd like to view and go to Pause.
- 2. The Live video will stop playing. To make the live video start playing again, right click the live screen that has stopped playing and go to start.

#### 7.6.Capturing Live Video

- 1. Right-click the Live screen you want to capture and go to Live capture.
- 2. Save it either as JPEG or BMP file format and input its name.



3. Click Save.

#### 7.7. Switching to another Split Screen Mode

- 1. Click 📃 for Live display toolbar
- 2. Pivot Pro will list down different types of multiple Live Screen mode like following picture.





#### 7.8. Clone Live View

You can make another live display pane with this feature. Click this button, the same live display pane generated with separated windows.

#### 7.9. Sequence and User Screen

To use 'Sequence' and 'User Screen' feature, you must register user screen on 'Screen List'.

#### Add user screen on Screen List

- 1. Select 'Screen List' on left side.
- 2. Right click on 'Screen list' and Add Group and name it.
- 3. Change Live display Division as you desired.
- 4. Right click on named Group and select Add user screen and name it. It saves displayd division.
- 5. To add another user screen with in same group, select screen division first and add user screen.
- 6. User can connect cameras on registered user screens.
  - 7. To check added group and user screen, click 'User Screen' on Live tool bar. It shows user defined screens when you select each.



#### Edit user screen on Screen list

- 1. Move to Screen List and select one of user screen to edit.
- 2. Right click and select 'Edit User screen'
- 3. Select screen division on live tool bar.
- 4. Right click again and select apply to change.





Autosave grou	p Iorean 0
scioenia - Scisen	Add Group UniverSimup
	Add User screen
	Delete Liser screen Ede Lis Add User screen

Scenen List

#### Delete user screen on Screen List.

- 1. Move to Screen List and select one of user screen/Group to delete
- 2. Right click and select 'Delete Group/ Delete User screen'

#### 7.10. Sequence / Edit Sequence

You can make sequencing with registered 'user screen'. To use Sequence, User screen should be registered first.

#### Add Sequence & user screen

- 1. Press 'Edit Sequence' on live tool bar.
- 2. Press 'Add Sequence' button
- 3. Click 'User screen' and choose one of screen mode to be added. \*registered user screens are displayed.
- 4. Then press 'Add Screen' button.
- 5. Add desired user screen modes.
- 6. To change Dwell time, click its field and adjust time.

	T#
	Add sequence
User Screen	• Autosave screen 0 screen1
	screen2 Screen 3 Screen 4

100

ļ	Sequence Information					
	No	Screen Name	Dwell Time	Layout		
	1	screen1	10 sec			
	2	screen2	10 sec			
	3	Screen 3	10 sec	36		
	4	Screen 4	10 sec			

7. Selected screens are listed as following pictures. Click 'OK' to finish add sequence.

#### **Run Sequence**

Select registered sequence and click Sequence icon on live tool bar.





# 7.11. Zooming in/out Live Video

You are able to zoom in/ out on one Live Screen mode using the following slide bar on Live Display tool bar.(Single channel only)

#### Zoom in/out by

- drag and dropping the adjust pin on any point of the slide bar.

- clicking on any point of the slide bar

To make live view as original size, right click Live view and go to 'Real Size'. This features only works in Single channel mode

# 7.12. Mouse Action

#### Normal mouse control

- select 'Move' option. This option is generally used. Select, Drag & Drop, double click etc. general mouse controls.

#### PTZ

- Available when a channel is configured PTZ in DVR setup. Use drag and drop and mouse wheel to control zoom in / out.

#### Digital zoom

- Enables the digital zoom feature on live screen. This can be applied in multiple live channel and use mouse control drag and drop to move position and wheel to zoom in/ out.

#### Digital Zoom applied picture.

Yellow box displayed on left bottom and filled yellow box is selected area. This area size can be adjusted by mouse wheel control.

# 7.13. Live Audio

Select server and channel of connected dvr and could hear live audio sound. To get audio sound, proper audio signal input is required.

To get live audio sound

- 1. Select server
- 2. Select channel of selected server
- 3. Adjust volume.











## 7.14. Two way audio

Two-way audio enable you to communicate between server and Pivot Pro.

#### 7.15. Search in Live

This feature enabled search playback with live view.

- 1. Click Search in Live button.
- 2. Choose a channel and drag and drop it to search area.
- 3. Set time to search and press playback button.
  - \* Print : print searched image.
  - \* Export : export searched image as file.







# 8. E-Map

Remotely manage your site where security devices are installed using a graphical map.

#### 8.1. Using E-Map

- 1. Click 'Map List' on left side.
- 2. Right click and select 'add map' and add new map.
- 3. Press find and select map file.
- **New Map name**: enter name to be displayed.
- **URL**: check this option when you use site linked map.
  - 4. Press OK to save the new map. The new map will appear on the map list on the left panel.
  - 5. To view the map, right-click on the map name and select 'Open Map'. The map will be displayed in the main display area.
  - 6. You can locate Cameras, Sensors, Relays, DVRs, and Dome Cameras on the map according to their physical location. This feature allows you to monitor individual

🔂 Ado	I Мар
	dd Map
ni Viq	
A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNER OWNER OWNER OWNE OWNER OWNER OWNER OWNE OWNER OWNE	
fap effits outputs	All Show Auto Call Control (Sec. 1945) Anno Call Sec. Coll (Sec. 1957) Start Sec. Call Sec. Coll (Sec. 1957) Start Sec. Call Sec. Coll (Sec. 1958) Sec. Call Sec. Coll (Sec. 1958) Sec. Call Sec. 1958)
No effer suppres	Andrew Addr 200 (1975) That and a second sec
No elle score	Anthone AutoCold (2011) Fund Anticold (2011) Fund (2011) Antop May 2011) Fund (2011) Antop May 2011, 2011 (2011) Antop May 2011, 2011 (2011) Antop May 2011 Antop May 2011
No eller soom Ne Han Karlan Ne Name e 195	Anthone AutoCold (2017) (2017) AntoCold (2017) (2017) (2017) AntoCold (2017) (2

Map List	
- 0	Enter Map Namel/his name will be displayed

cameras and devices spread across a location, make sure they are properly working, and get instant notifications when a sensor or an alarm are triggered. You can also connect an item in one map with a different map by selecting the -12- icon.

7. To enable icon placement on the map, make sure to unlock the lock icon at the top of the display area and select Map items that you will replace on map.



8. Right-click ▼ behind Map Item on Live Display Toolbar. Chose an icon from the list.



9. Drop the icon on the map. The mouse icon will turn into a drop icon as seen below. Point the mouse to the corresponding point in the map where the device you

selected is physically installed. Click on that location to place the device icon.  $\Phi$ 

10. Select Server, Camera, and Icon Size and enable/disable the Use Audio feature and click OK button.



11. Registered camera displayed on map. If an event occurs, the device will display green radiating signals from the camera indicating an event was triggered as seen below.



Registered Retriggered Event Receiving



Popup image by event Triggering

# 8.2. Jumping to Map Display from Live

After setting the map for a certain device, you can directly jump to the map display. To do so, complete the following steps.

- 1. Right click the device on the 'Server List' which has the linked map.
- 2. Go to 'Move to Map' and click the desired map.
- 3. The linked map will be displayed on the 'Display Window'.



# 9. Search

Pivot Pro provides you easy search with following features.

- Status Search: Check recording data status and search.
- **Preview Search**: Displays the first frame of each hour, 10 Minutes, and 1 minute of data.

This is useful when you finding something different but have no idea when it was.

- **Bookmark:** Add book mark and search fast.
- **Print:** print out selected image.
- Save: export recorded images as JPEG and AVI format.
- Mouse Action: Mouse action is same as Live modes.

#### 9.1 Enter to Search mode

You can move to search mode as following ways:

- 1. Right click on live mode and select 'Search'.
- 2. Move to 'Display' and select 'Search'.
- 3. In 'Alarm Monitor' display, right click one of event and select 'Search'.

#### 9.2 Single Device Search Display

For devices with storage function, the Pivot Pro allows the user to remotely search recorded data. All kinds of searches used in a connected device can be available on the Pivot Pro as well. To perform Network Search, please follow the steps below:

• Right click the desired device icon on the Connection List, and click 'Search'. The device will open in search mode in a new tab.





#### 9.3 Status Search

- **1.** Move to Search mode and click Status' icon.
- **2.** Select a block and it shows selected images.
  - Horizontal : timeline
  - Vertical (left side) channel number
  - Each block is 10 minutes data.





**3.** Following picture is the result of status search after select block.



#### 9.4 Preview search

With the **Preview Search**, user can quickly find an exact moment where an event occurred. The **Preview Search** basically displays a 24 hour visual overview of a single channel (camera) by separating a 24 hour period (1 day) into 24 images, one image for each hour of the day. The search can be narrowed down into an hour and a 10 minute period.



To perform the **Preview Search**, please follow those steps below.

- 1. Move to search and select Preview icon.
- 2. Select the desired camera (channel) from connection list
- 3. Select the desired date seeking through the Calendar.
- 4. Click the **PREVIEW SEARCH** button.
- 5. The 24 images for each hour for a selected day will be displayed on the **Search Display Area**.

6. Search to find a specific section of video with the **Playback Controls.** 



1 minute increments - 10 minutes displayed

\*Following picture shows how this function worked.
### 9.5 Bookmark and search

User can add bookmark during search and search quickly

### 9.5.1 How to add bookmark.

- Stop playback and click 'Add' button to add book mark.
- Check the selected channel & times is correct and press 'Add' button.



### 9.5.2 How to search bookmarked data

- Press 'Search' button in search mode.
- It shows Searched bookmark and you could find easily.

No	Nane	BookMark Title bm1
1	timi	Data/Time 8/13
2	tm2	Channels
		1:CH1
		2:042
		E 3.043
		5 045
		E 6: DH6
		7 CH7

- Choose one of bookmark name and click search button below.

### 9.6 Print and Save

Provides Print out function only for playback image. To print out, pause image and click print Icon and set options and press 'Print '. (Printer must be connected) Export AVI, JPEG format from system. Click 'Save' button and save files.

### 9.7 Mouse Action

This feature functions same as in Live mode. See section 7.12 for more information.



### **10. Health Check**

This feature provides you with a detailed report on the DVR's health by checking it remotely periodically. To use this feature, must enable this feature on Setup->Health Check. Also DVR must be ready for use this feature. For more detail Setup, see setup-> Health Check. Go to Setup -> Health check and set Enable and select DVR to be checked.



To perform a DVR health check:

1. Move to Health check display and run 'check now manually (for verification).

	🔛 Live Disslay			Health Check		
10	Show Current Health Ch	eck Status		Waiting		
USE	DVR STATUS	NETWORK	VIDEO	RECORDING	FREE SPACE	STORAGE
Ø	10 Mart H	9		a	how Detail Statu	15
				0	heck Now	

**2.** Test result displayed as follows. The reports can be exported as excel files for personal records.





### 11. Alarm Monitor

In case of events occur, DVR displays its event details. Pivot Pro could receive event data and pinpoint where the events happened.

### 11.1 Alarm Setup

You should set IP address of the alarm device being monitored in Pivot Pro system to manage it (For details about configuration with your device, you should refer to its manual or contact their customer support).

Pivot Pro records event logs in the pre-defined directory and alert you using a sound and with a popup windows.

### 11.2 Alarm Events

To open the Alarm Monitor, click 'Alarm monitor' icon on Display menu tool bar or press 'Menu' and select 'Alarm monitor'.

R Inchain Rding Houts

If alarm monitor is correctly configured, the event messages are being displayed in a time order – the Lasted event is always on the first row-see above picture.

Alarm events displayed event number, event type, name of devices and channel in which event occur.

Each symbol stands for a type of as you see below.

- [M] motion
- [R] relay
- [S] sensor
- [X] video loss
- [N] no signal

How to get alarm signal

- 1. Go to 'Menu->Settings->Alarm monitor' page and check 'Use' option
- 2. Check Save directory which receives incoming images from DVR. To change this directory, click browse button and specify the desired directory.
- 3. Default Network port is 2001 and you can change this. This port should be identical with DVR's EA port. (if not changed, all product have same port)

-	iic			-						
									and have	
	B		1					Citor.	be DVR	
	H-T 11	17 3	E.C.	OVER Marrier	1	In case of Exercises on	- Barro	Dennel Harse	Um	11-1
										_
	45397	121	282			22140 1 122140	401		100	
	45207	11	2022			17 21 40 11 17 21 40 17 21 40 11 17 21 40	104	Contractions.	17	
	45207 6306 6306		2112 252 252	Al Grade		0/2140 + 172140 0/2140 + 172140 0/2140 + 172140	4EH 9CH 2CH	- and the base	1.1	
	45207 6525 6525 6525 4528		242 262 262 262	d diam.		17 21 40 - 17 21 40 17 21 40 - 17 21 40 17 21 41 - 17 21 40 17 21 43 - 17 21 40 17 21 43 - 17 21 43	404 204 204	- AND RESS	10	
	45007 6306 6306 4308 4308 4308		202 202 202 202 202 202			12 21 40 1 1 12 21 40 17 21 40 1 17 21 40 17 21 43 1 17 21 40 17 21 43 1 17 21 40 17 21 43 1 17 21 43 17 21 42 1 17 21 42	804 804 804 201	- AND COLOR		
	45207 6526 6526 4528 4528 4520 4520 4520			All these		172143 - 172143 172143 - 172143 172143 - 172143 172143 - 172143 172142 - 172143 172142 - 172142 172142 - 172142	104 204 204 201 201 401	estimation.		
	45007 6505 6505 4505 6500 6500 6000 6500		202 202 202 202 202 202 202 202 202 202	All these		$\begin{array}{l} p_{2}(x_{1}) = (x_{2}) + d_{2} \\ p_{3}(x_{2}) = (x_{2}) + d_{3} \\ p_{3}(x_{3}) = (x_{3}) + d$	904 204 205 205 205 205 205 205			
	45207 6306 6306 43028 6000 6000 6300 6300		202 202 202 202 202 202 202 202 202 202	Withese		17 2140 * 17 2140 17 2140 * 17 2142 17 2140 * 17 2142 17 2140 * 17 2142 17 2140 * 17 2140 17 2140 * 17 2140	401 304 304 301 201 201 401 304 566g-8	1		
	45300 6305 6305 43038 6001 6001 6000 6000 6000 6000		202 202 202 202 202 202 202 202 202 202	Without .		12 2140 - 17 2140 17 2140 - 17 2141 12 140 - 17 2141 12 140 - 17 2141 17 2142 - 17 2142 17 2142 - 17 2142 17 2142 - 17 2142 17 2142 - 17 2142 17 2140 - 17 2141 17 2140 - 17 2141 17 2140 - 17 2141 17 2140 - 17 2141	401 304 204 204 204 204 204 204 204 204 204 2	L.		
	453307 65336 65336 45338 65338 65338 65331 65330 65330 65339 65339		222 高泉市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市			12 21 442 ** 12 21 442 17 21 40 * 17 23 43 17 21 40 * 17 23 43 17 21 45 ** 17 24 43 17 21 45 ** 17 23 43 17 21 45 ** 17 23 43 17 21 40 ** 17 23 43 17 21 40 ** 17 23 44 17 21 40 ** 17 23 44 17 23 40 ** 17 23 44	400 204 204 201 201 201 201 201 201 201 201 201 201			
	453337 25335 25335 45338 45338 45338 45331 45331 45331 45339 45339 45339 45339		200 200 200 200 200 200 200 200 200 200			12 21 40 ° 17 27 43 17 21 40 ° 17 27 43 17 21 40 ° 17 27 43 17 21 42 ° 17 27 42 17 21 40 ° 17 27 41 17 21 40 ° 17 27 40 17 21 40 ° 17 27 40 17 21 40 ° 17 27 40	111 904 804 804 804 804 804 804 804 804 804 8			
	453337 45335 45335 45335 45335 45331 45331 45331 45331 45335 45335 45335 45335		112 212 212 212 212 212 212 212 212 212	Witter		12/21/2011 - 17/21/43 17/21/43 - 17/21/43 17/21/43 - 17/21/43 17/21/42 - 17/21/43 17/21/42 - 17/21/43 17/21/42 - 17/21/42 17/21/40 - 17/21/43 17/21/40 - 17/21/40 17/21/40 - 17/21/40 1	111 904 804 804 804 804 804 804 804 804 804 8			
	45207 45206 45208 45208 45208 45208 45209 45209 45209 45209 45209 45208 45205		22. 我就是我是帮你的意思的。	Witter		12/21/2011 - 17/21/43 12/21/43 - 17/21/43 12/21/43 - 17/21/43 12/21/43 - 17/21/43 12/21/42 - 17/21/43 12/21/42 - 17/21/43 12/21/43 - 17/21/43 12/21/21 - 17/21/43 12/21 - 17/21/21 12/21 - 17/21/21 12/21 - 17/21/21 12/21 - 17/21/21 12/21 - 17/21 - 17/21 12/21 - 17	411 924 924 925 925 925 925 926 926 926 926 926 926 926 927 926 927 927 927 927 927 927 927 927 927 927			
	42207 6306 6306 4528 6300 6300 6300 6300 6300 6300 6300 630		22. 我就是我早早记就把我想到	Witter		$\begin{array}{c} 12 - 21  k  21 \\ 17  21  43 \\ 17  21  43 \\ 17  21  43 \\ 17  21  43 \\ 17  21  44 \\ 17  21  34 \\ 17  34  34 \\ 17  34  34 \\ 17  34  34  34 \\ 17  34  34  34  34  34  34  34  3$	4110 104 105 105 105 105 105 105 105 105 105 105	1.		
	452017 6325 6336 4539 4539 4332 6320 6320 6329 4559 4555 4555 4325 6325 6325 6325 6325 6325 6325		222 和美国建筑和122 和美国建筑	Witter		12/21/2011 - 17/21/43 12/21/43 - 17/21/43 12/21/43 - 17/21/43 12/21/43 - 17/21/43 12/21/42 - 17/21/43 12/21/43 - 17/21/43 12/21/43 - 17/21/43 12/21/43 - 17/21/44 12/21/43 - 17/21/44 12/21/45 - 17/21/45 12/21/45 - 17/21/45 12/21/45 - 17/21/45 12/21/45 - 17/21/45 12/21/45 - 17/21/45 12/21/45 - 17/21/45 12/21/45 12/21/45 - 17/21/45 12/21/25 12/21/25 12/21/25 12/21/25 12/21/25	4110 104 104 105 105 105 105 105 105 105 105 105 105			
	452317 6335 6395 4535 4535 4530 4530 4530 4539 4557 4555 4555 4555		222 年後月月月月日に 第二日 月日			$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	452217 6335 6335 45335 45331 63331 63331 63331 63331 63331 63357 43235 63357 63351 63351 63557 63555 63555 63555 63555 63555 63555 63555 63555					12/21/2011 - 17:21/201 12/21/201 - 17:27/201 12/21/201 - 12/201 12/21/201 - 12/201 12/21/201 12/21/201 12/21/201 12/21/201 12/21/201 12/21/201 12/21/201 12/21/2		L.		

1.1.1



۲		P		E Sor OVR
NoT 1	111	DVR Name	Eventime	Davics Name User
12	100	112	0817.32 ~	Rolay 7
12		112	0817.32 -	Relay 6
-11	R	112	081732 -	Relays Sort by DVR
10		112	081732 **	Rolay 4
5	6	112	08/17/32 -	Relay 3
6	66	112	0817.32 -	Fieldy 2
7.	<b>B</b>	112	0817.32 -	Fielay 1
6	•	112	0817.31 = 0817.31	
69793	10	202	17:09:05 17:09:05	204
65736	100	202	17:00:06 = 17:00:06	108
89797	0.00	202	17:00:05 * 17:00:05	204
80796	0.0	202	17:00:05 ** 17:00:05	1CH
60795	196	202	17:00:05 = 17:00:05	304
63754		202	17:00.05 = 17:00:05	201
65750	IMB .	202	17:00:05 = 17:00:05	104
680%2		202	17:00:05 = 17:00:05	204
£9791		202	17:00:05 ~ 17:00:05	204
68790		202	17:00.05 ~ 17:00:05	108

Incoming alarms are listed as above, it describes alarm type, DVR name, Event occurred time, Device name and user information.

To sort events by device, click 'sort by DVR' button.

### **11.3 Filtering Alarm Results**

Pivot Pro enables you to effectively search the events through filtering, which offers numerous options for making your searches more precise and getting more useful results.

To expand Filtering information, click = Filtering / Setting.

Filles Options		and so the second s	and a second second	Status Setting			
Review	Date	7/30/3007 💌 💽 0	11 🔽 On	Level Dela#	Confirmed	[Select Type]	¥
	Server	halovel	*				1
S COMPANY S	Event	🕑 (Al E vents) 🔛 (Al Al	and M				IN
Critical	Continued	(All Types)					0
Delaut	Images	15 341 1903	100				

### a. How to set 'filtering' options?

Filtering options can be set by user. Right click on incoming alarm and you could select 'Default/ Review/ Dismiss/ Critical'. Marked field shows user name and its colors.

Same .	Darving D	1 Nov 1114	DVR Name	Event line Device Name	1 0
	100 12 18 10 10	1396	E tours H	0612140841 = 0812140-CHS	
	0512 / 15 live	1385	E that H	0912140821 = 081214.0-CH15	
	4612141s bankh	1394	tale H	08/12/14/04/21 = 08/12/14 D/CH10	
	111 111	1333	<ul> <li>tokan H</li> </ul>	00-1214:04:21 * 08-1214 DxCH7	
	001214/15 Certaid	1232	than H	0912140421 = 091214.0/CH5	abinitiator
	0912-117 Raymon	1391	taan H	0812140421 * 0812140-CH4	christian
	05-12 -/ 15 Dismiss	1290	tilan-H	0912140234 = 0912140.047	administrator
	CET2 - 15 Critical	1399	. Internet	0812160318 = 0812160	advantato
	1812 14162 7 8121614 H4	1307	taas H	09-12 14 01:58 * 09-12 14 0°CH12	addrividaator
		1396	E tolar H	0912140159 - 0912140 CH10	advinitiolo
			C HINKING	00.1214.0160 = 00.1214 01740	



#### b. Run filter (simple Filter)

Nov	1 7	臣	DVR Name		C.M.	Eventime		Devio	e Nane	They are	Use
1507		16	Inun H	0	8-12	14 08 40 = 86	12 CH	12	19472290	edmini	intration
1506			team H	06	-121	4.08.40 1 09-12 1	4 DECHE			-adminis	Inator
1505			teum H	DE	121	4:08:40 - 08:12:1	14 BICHT			adminis	Ination
1391			tium H	DE	121	4:04:21 ~ 09-12 1	4.0 CH4	÷		: adminis	Ination
1389			teum H	DR	F12.1	6-03-18 = 08-12 1	16-0.			adminis	traint .
1005		-	Dum H	00	121	4.01.58 - 09-121	A O CHI	9)) 4		adirent	fiaror .
1300			te so M	100	121	4/01/50 / 00.121	AUCH	1		and the second	a seco
James / K	off and										
iturg/5	eting							Status	Sutting		
iterg/5 iter Opti Revie	eting ons		En Do		1	0 or		Statuz	Sutting	•	Confirmed (Selec
iher Opti Revie	ating onu w	Date	8/12/201	3 (]+	]	01 8/12/2013	8*	Status	Sutting Default	•	Continued [Selec
iterg/5 iter Opti Revie Dismis	efing onu w	Date Serv	8/12/201 8/12/201 9/ [#10/FE]	3 (D+	1	01 8/12/2013	U+	Status	Satting Detaut	•	Continued (Selec
Pung / 5 iher Opti Revie Diamin Collice	efing oeu w	Date Serv Ever	8/12/201 (Jai DVFt) # (A) Jai EvFt)	3 ([]+	1	C OF B/12/2013		Status	Suffing Delaul	•	Confirmed
iter Opti Tevie Dismi Collice	afing ner: *	Date Serv Ever	Brizzan Brizzan F Jel DvHj F (R) Jul Ev med JAI Conten	) (]+ enti  Types	]	Gr B/12/2013 [All Alerta]	11+ •	Status	Setting Delaut	•	Confirmed [Solid

Filter and displays marked events only.

- Disable 'Default'
- Select options desired to see.
- Set Date and Server.
- Click 'On' button.
- \* following picture only shows marked events.
- c. More detail with Confirmed option.

'Confirmed' field can be sorted together and user can define this list. For example, the user define frequently used comment such as 'Normal car pass', 'Post service' etc. User can define detected actions and set type of it and comments on each event.

d. How to set type?

- Let's say that you have 3 types of events to record when you watching. You should register Type A, B, C on system. To do this, go to setup –Alarm Monitor' page.

- Check 'Use' option.
- Enter alarm type 'Type A, B, C' on Alarm confirm list and add.
- Added alarm types displayed on Filter option confirmed field.

Derwol Dive Setup		
Millin Sena Hanth Chank Cata Hanth Chank Cata Han Wardor 705 Adam 705 Adam 8 Uses E Jitai	Annual Status     Compared and Anti-Aff Stage Annual Status     Compared and Anti-Aff Stage Annual Status     Annual Status     Compared and Annual Status	Alem contine, M Topole Topole Topole
	Cx Rolling  Cx Rolling  For page toward  Data  Rolling  R	Add Hodee to De



Status	Setting				
Level	🔲 Dismiss	•	Confirmed	[Select Confirm Type]	-
				[Select Confirm Type]	
Igonore.	this is not an a	larm		ТуреА	
				ТуреВ	- 1
				ТуреС	

e. Alarm event with comment and filter. Check incoming event and leave comment and assign alarm to a set type. User can sort out events with more details.

To leave a comment on an event and choose a type:

- Select the alarm event from the list.
- Write a comment to be associated with this event.

- Press the 🔳 button to save the comments.

To apply a pre-set type label to this event, select the appropriate type from the Confirmed drop-down list. Press 'OK' button

Filter Options		
Review		🔽 On 💽 Off
	Date	8/12/2013 🖉 🕶 8/12/2013 🖉 🖛
Dismiss	Server	[AII DVR]
Critical	Event	■ [All Events]
	Confirmed	TrueC 🗸
Default	Images	20 • 180×120 •

It shows results as follows.

Right Click on event and you can see 'Live' image or search of recorded image.

		Page	1 🔹 Go	
DVR Name	Event time	Device Name	User	Confirmed
m H	08-12 14:08:40 ~ 08-12	CH12	administrator	ТуреС
пН	08-12 14:08:40 ~ 08-12 14:08	CH1	administrator	ТуреС



### 11.4 Alarm report

Filtered events can be printed out as following format by pressing the



					Alarm Report			012/2015 5-25-66 PM		
No.	Type	Server Nome	Event On Time	Event Off Trees	Sevine Barre	Genfirmed Type	Alanto	C/ser-		
1007		eun m	812.0015 2.28.40 PM	8/12/30/15 2/06:40 PM	0+12	7,00	Must reviewed by	*****		
1006		trun H	8/12/00/18 2/16:40 FM	8/12/20/13 2:06:40 Pet	CH	tyse .	Inset_huri next	al minastal.		
1585		true H	A/12/0210 2.128-40 PM	8/12/2011 3/08/40 Mpi	clen.	fawl.	Mart review	atministrator		
80		8149 H	8/12/25/15 2:24/21 FM	8120013 20421 Pel	014			admitiates/		
nin.		tun ti	8/13/2018 - 4/23/2019 PM	8120012 100.15 Mil				#1107.83.00V		

### 11.5 Alarm Export.

Alarm event also can be exported as following types of files.

Alum Export				
Export Range	Export Type			
. Firwed records	🤨 Hual			
· Fittered records	2 Excel			
(*) All scoots	E Erv			
S	C Tax			



### 12. Settings

### 12.1 General

**General** item enables you to check user information and change details such as a password and alarm event.

Lizziste	-User Information	
DVR List Setup		Change Parrivoid
Health Check Setup Alam Monitor	10 <u>International I</u>	Password Conflien
Admin	Load/Save Options	Use Disconnect Nichola Dialog
Luens	Auto Load Settings (On Log on)	Vite Dialog duration time(Dintinite) 3 1 minutes
1000 C 1000	Save Now	Research And Exception
	No Sceen has been released	None +
	Lock reting	The local day
	Open lock ket	
	Map Alem Event	
	On Video Loss Event	Une Map New Sound     Une
	On Sensor Event	
	Auto-switching to map event	V Show indext object later
	El Use Republication (real) (c)	Pap up cateria on events     V Canera popup diversi ini top

### 12.1.1 User Information and Changing Passwords

- User Information: Displays information about the user you've logged in as.
- Change Password: Input new password twice to change. Modification is applied only when you click the OK button.

### 12.1.2Load / Save Options

- Auto Load Settings: Check it to load a layout-info and display your custom settings next time you log in.
- Auto save Setting: Check it to keep a layout-information of Live Displays you've arranged. If you check it, you will NOT lose your layout-information even after logging out.

% Checking both options is recommended.

### 12.1.3 Lock Setting

Protect from unauthorized operations, user can set auto logout for each function. After setup, accesses to the pre-defined functions will be denied if there has been no operation or input for the specified period time. You must log in again.



To set up auto-logout for the specific function, please follow those steps below.

- 1. Enter the setup mode by going to **Tools** >> **Settings**.
- 2. Select **General** and click the **Lock setting Configuration** button.
- 3. The **Function Lock Setting** window appears as shown picture.
- 4. Select desired functions you want to protect.
- 5. Specify waiting time for no operation period
- 6. Click OK button.

	All the second se			-
Functions				
NDMS Opt	090			
DVR Conlig	puration			
Backup				
Beckup Ve	rvet			
Shoes Alast	Monitor			
Search				
Edł Map				
5how Heal	Pi Check Statut			
Minimization	n or Maximization			
E Shut down	NDMS			
Show NDW	IS Log Viewen			
Map Verve	5			
-				
60	(Waiing time	( \$8C)		
			-	
0	K D	100		

### 12.1.4Use Disconnect notice dialog

- Notify of a disconnection event. Check on 'Use Disconnection Notice Dialog' to be automatically informed when any device is accidentally disconnected or failing to establish a connection
- Dialog duration time: is the preferred time to keep the dialog-box opened. If you set it at "0", it will NOT be closed until you close clicking "x" or pressing the ESC on the keyboard. (measured in min)
- Disconnect Alert Sound Setting: select a type of alarm sound between WAV file and the beep. You can also listen to it by clicking the Test button.

### 12.1.5E-Map Alarm Event

Pivot Pro is able to display location of devices such as cameras and sensors on map. This will also notify the events associated with a device that have a loss of live video or motion detected.

- **Color drop-down-list**: Choose a color to display a particular predefined event.
- **Auto switching to map event:** Popup the registered map when any event occurs.
- **Map display Duration Time**: Specify the duration (in seconds) of the map popup.
- **Use Map Alarm Sound**: Select a type of alarm sound between WAV file and the beep. You may also listen to it by clicking on Test button.
- Show Linked object Label: display label of linked devices.
- **Pop up live on DVR events:** Display live when event triggered on DVR.
- **Pop up camera on events:** Check to pop up the associated live screen when the emergency alarm occurs.
- **Camera popup always on top**: Check this option to make event camera popup window be always on top.



### 12.2 Live Setup

General .				
<ul> <li>LiveSetup</li> </ul>	Live Display			
DVR List Setup Health Check Setup Health Check Setup POS Admin Users E-Mail	Auto Switching Time (Sec) PTZ controller transparency setting Trable full window when double clothed Preset live video position on disconnection Show PTZ controller with advanced and Wildle hidden coverage in the bit Docking Live Window Dock nating channel in search Hidd Screen video	3 None in live mode in le	*	DSD Settings Hele all 050 Hele all 050 Hele correct number Hele correct number Hele of L drawton Hele PTZ Hele PTZ Hele PTZ Hele PTZ Hele Tas Fort Use
	Capture Save directory P Jong capture on aligns	(C.V	PogueDela Vid	15%LiveCaptureA
	Action Dh Alam Motion Full screen duation time(anc) None +		(	Audio play mode Quality Inst -

### 12.2.1 Live Display

- Auto Switching Time: is time until the next channel (only being connected) group begins to be shown on Live Screen when on Live Display Toolbar is being pressed. The number in a group is dependent on the pieces of Live Screen on a current Live Display. For example, if the current multiple Live Screen mode is 8-split-mode, the group must have 8 numbers of.
- **PTZ controller transparency setting**: Select one of 4 degrees None, High, Medium and Low to choose PTZ Control transparency level.
- **Enable full window when double clicked in live mode**: Check it to make Live Screen automatically fit into Live Display pane when you go to one Live Screen mode by double-clicking.
- **Reset live video position on disconnection**: Check it to erase a Live Screen position-info memorized in each channel if device is disconnected. In other words, you need to rearrange Live Display the next time you reconnect.
- **Show PTZ controller with advanced mode:** Check it to display PTZ Control as an advanced mode every time it pops up.
- **Hide cameras not set to record**: Check it to hide the channels –not being recorded on Server List.
- **Docking Live Window:** Once checked, newly added page would be displayed in main page.
- **Check waiting channel in Search :** display 'Waiting' message when playback image not be renewed because of events.



- Hold Screen Ratio: set screen ratio.

### 12.2.20SD settings

- Hide OSD : Check it to remove OSDs on Live Screen

### 12.2.3 Font

- Check it to change font type and size as you need. (Default font - type: Arial, size: 9)

### 12.2.4 Capture

- Save captured image data on configured directory. It enables you to change the default directory for saving image captured.
- Use Jpeg Capture On Alarm: Check to save the still image to the pre-defined folder when an alarm is notified. To avoid multiple image captures, you can set the Ignore Time. During the specified period (in ms), the program discards alarm notifications after saving one image for the first event time.

### 12.2.5 Action on Alarm

Set actions when alarm triggered from DVR.

- Full screen duration time: set holding time for full screen duration time.
- Sound select: select one of audio sound and choose file to be displayed.
- Ignore alarm events after action (sec): set alarm ignoring time.

### **12.2.6 Audio play mode**

Select audio sound transmission option.

- Quality first: transmit audio sound with quality.
- Sync first: transmit audio with synchronization of image and sound.

### 12.3 Health Check

Use this setup page to enable and setup the Pivot Pro's advanced remote Health Check monitoring.

Gerenal	Concello companyo					
Live Setup	2 Enable Health Check		in line			
DVR Lie Setue	Chaptering		Lines Lava	100	-	Table
i Heath Dank Sittig	Day Deck ance eve	4	🖭 Video Lors Court	1.0	4	5 1
Alam Monitor	0. Hout 1	40	R, Recording Failure Court	1	4	5 凉
P01	(Minda: sinistan)	Ininatec	Cold. Fee Space [3]	10	<b>\$</b>	5 X
Adam	🔿 Masale —		12 Stange False Load	1.1	÷.	2. 🧃
& Upern			Recorded Day Faller Coant	60	4	3.4
E-Mail	Autorios Fallet		Moden / Warris Scorel			
	El Papiapion Fallans El Papiapion El Valore Minarregion Fallant	eWanng (2)	Hoden Select	_	_	
	DVIH Indosedion for Health Ditacti					
		DV6.Net	w Por G	e PPP 1	Turrel	iete.
	The (MC +) HTP Millow Charles Harter Charles Charles	2 turi	4 G DI	Ŧ		
	I have been seen as		4			

- 1. Select the frequency you want the software to check your DVR's status. You can set the software to:
  - A. Check the DVR every X number of days, once a day. For example, once every 3 days. The maximum is every 7 days.
  - B. Check the DVR every X number of hours. For example, once every 12 hours. The maximum is every 23 hours.
  - C. Check the DVR every X number of minutes. For example, once every 30 minutes. The minimum is every 10 minutes.
- 2. Select which features in the DVR you would like the software to check and the frequency in which these issues must occur for the software to notify you:
  - A. <u>Video loss count</u>- If the software detects video loss it will include the information in the health check report. You can also setup how many times the system detects video loss before sending you a warning or failure action. For example, if the system detects 1 video loss every set time, it will notify with a warning as set by the user. If the system detects video loss more than 5 times in the set time frame, it will consider this failure, and system will execute action on failure as preset by the user.
  - B. <u>Recording failure</u>- If the software detects recording failure it will include the information ion the health check report. You can also setup how many times the system detects recording failure before sending a warning or failure action.
  - C. <u>Disk free space %</u>- You can setup warning and failure action when your HDD is getting close to its full capacity. For example, the system will send you a warning



notification when the HDD is down to 10% free space, and will take failure action when the HDD is down to 5% free space.

- D. <u>Storage failure count</u>- If the software detects storage failure it will include the information ion the health check report. You can also setup how many times the system detects storage failure before sending a warning or failure action.
- E. <u>Recorded day failure count</u>- If the software detects recording failure for multiple days it will include the information ion the health check report. You can also setup how many days the system detects recording failure before sending a warning or failure action.
- 3. Select which Action on Failure you want the system to take. Select from popup notification for failure notice, popup notification for warning notice, and voice warning for failure notice.
- 4. Make sure there is at least one DVR selected for the DVR health check. Please note that DVR availability depends on the supported models.
- This requires correspond devices. If no protocol included, this won't work.

### 12.4 Alarm Monitor

**Pivot Pro** logs events to the directory set on the local HDD and alert you using a sound and a pop-up window.

Genoral	East Het	
Live Seno DVR Liuf Seno Mark Dank Mark Marke POS Adam Line E Hall	Item     Investid     Sever Steadurg     C.vProgramD at a Vold 51 Logs AlamB at al.     CellongamD at a Vold 51 Logs AlamB at al.     Network pair     Change to Alam Hondes on alam     Change to Alam Hondes     Change to Alam Hondes on alam     Change to Alam Hondes     Change to Alam Hondes	Aberts contribut for

### Add, update and delete buttons

- Add: To add a customized item on Alarm confirm list, type a name of it and click
   Add
- **Update:** To modify a customized item on Alarm confirm list, select one and click Update

- **Delete:** To delete a customized item on Alarm confirm list, select one and click Delete.

### General

- **Save directory**: enables you to set the folder to save sensor or motion triggered events.
- **Network port**: Input a port number to receive a event data. This must be the same number as the connected device uses.

### Notice

- **Show popup messenger:** Check to notify you of events with a pop-up window.
- **Sound option:** Select one of three No sound, Beep alarm and Play selected to set a type of sound.

### 12.5 POS

Pivot Pro can receive POS data if a connected device supports POS (Point Of Sale) data transferring protocol. This function enables you to set keywords and automatically search POS transaction data with them. You are also able to sort out unwanted data by item filtering. POS functions are active only if a device supports POS data transferring protocol, it does NOT work with an IP Camera.

- POS functions are active only if a device supports POS data transferring protocol. The POS feature is not available on IP cameras.
  - Select Enable POS.
  - Setup the desired normal font style and size.
  - Setup the desired alert font style and size.
  - Add search words that would trigger the alert font style.

Great		-	HIS.		
DVR-Lar Serap	(" Enable POS				
Health Check Setup	. Ling Fork		I give DVR Seven	i Merk	
-	- Tional Fort Set	1.0	Alex Test	Foot	Feet
Admi	Noned Ford				
Eltar					
	And Foreign				
	Platin	-			
					- 441
		441	E)For		Update
	L	- ili	(C) Berge		Datena
		Date			



### 12.6 Admin

General		N.	620)		
Live Setup	Global Setting			Additional DVR Inform	ston
Health Check Setup Aliem Monitor	Write NuMS Log V Une Digital Waterwarking NuMS			Title	Add Dekre
POS	Jpog/W/I Export Title			Import / Export / Initia	kre
3 Usen	None				in Diala Minniger
E Mar	Show cancers number     Save last live image     Sapport Dawn Image in Swech     Auto reconnect delay time (Minanan 30 seconds)	300	-	Hide Video Noise Jun	Holzontal Vertical
	Sound alert on free disk space (NB)	500		Half / Qued size	0 • 0 •
	PTZ connendimental (milliceconds)	1000	:	Audo	
	Network traceut setting (Seconds)	20	:	Charge Live autor	aticaly
	Renate voice warring count	t	1	Diarge Talk Serve	r submatically
	Alave Log Clearup Schedule			Set schedule for doce	ding normal alarm
	En Use Restocard.comol			in the second se	Set rohedde

### 12.6.1 Global Setting

- **Write Pivot Pro Log**: Check it to record user events such as log-in/off and connecting/disconnecting, into a local computer as a file.
- Use Digital Watermarking: enter watermarking verification codes.
- **JPEG/ AVI export title:** add short title on exported files. Select position and edit message on text box.

Jpeg/AVI E>	port	Title
Тор	*	Restricted Editha Message
None		
ЧТор		IONZEG SCIVEIS
Bottom		a number

- **Show unauthorized servers:** once this option checked, it shows all listed server even current user doesn't have permission.
- Show camera number: display camera number on live screen.
- **Save last live image:** Save last images on memory when switching to other screen. This feature minimizes time delay on image transmission. Checked-save last image and display when it back to screen. Un checked-Make connection when switching screen.
- **Support clean image in Search:** Only available in PC DVR. This shows smoother image. (not available on other Series DVR)
- **Auto-reconnect delay time:** Set the reconnect time when it is disconnected.



- **Sound Alert on free disk space:** Check it to be notified when disk space become lower than defined setting. (It is going to continuously make a beep.)
- **PTZ command interval (milliseconds):** Adjust PTZ command delivery interval when PTZ command is not working smooth by network speed.
- **Network Time out setting (seconds):** Set holding time to receiving data. (this feature is about PC based DVR)
- **Remote voice warning out:** Input the amount of times for an alert sound in case a particular event occurred. You will listen to the sound by right-clicking on the device, like the picture below. (This function is active only for PC-Based DVR)
- Alarm Log cleanup schedule: clean up alarm event schedule by user configuration. \* 4 GB is max size for alarm data.
- **Use Keyboard control:** Pivot Pro supports several models of Keyboard controllers through serial communication.



### 12.6.2 Additional DVR information

- Title: edit title field of 'additional information' on DVR list setup.

### To add: enter field name and 'add'

addonarbyy	(Thiromotion)	
Title 8	TITLE ADD	
	Add	Delete



# Delete: select one of filed and click delete.\*at least 1 item should be remained.

	Additional DVR Inf	omation	
	Title 1	Mgr Name 🗾	I
		Mgr Name	
		Tel No	
		Fax No	
1	Internet J Evenest J In	Police Station No	
	Import / Export / Ir	Fire Dept No	ŀ
		Etc #1	



### 12.6.3 Import/export/ Initialize

You can export and import settings between multiple Pivot Pro clients. Run data manager and manage configuration information. \*to run this, Pivot Pro should be terminated.

#### Features

Cleanup: cleanup previous event information. Import: import configuration data Export: export configuration data. Map conversion: convert old maps for new Pivot Pro.

### 12.6.4 Hide Video Noise

Input the amount for the line to take it away on Live Screen. The lines will be removed starting from outline.

\* Full size item: is for the high resolutions, like 720x480 and 640x480.

\* Half /Quad size: is for the lower resolutions, like 720x240 and 360x240 or CIF size.

### 12.6.5 Audio

Setup the audio options on Pivot Pro. These settings correlate with the two-way audio function between the Pivot Pro client and the supported DVRs.

**Change Live automatically:** Check it to listen to the audio with the Live Screen when you select it. It is active only on a DVR that has an audio function

Change Talk server automatically: Check it to turn on interactive audio function.

### 12.6.6 Set Schedule for discarding normal alarm



Set time for ignoring alarm. Incoming alarm will not be listed on configured time.

	(Data Minager	neni
	Select temporary working ditre	
15 Danie	Trent E1	•
2 mar 2	Total Over space (MI)	18730
a land	Pasidire (pain (HS)	[19,80]
B NeGreen	Parameter (Second Second)	le.



### 12.7 Users

In this setup mode, you can simply create, modify, and delete user accounts. You can also give different permission for each user



I an I line set	Saure Jacob Pres		
() in the terms of a standard	Talve free	I was been	# 100 100 101
hett: 1164.4			
ferring			
inte -			
Ppinitate.	(States and )		
Liector .	A Chevel		
CON Lincleve M DM Conference	Clamath		
() Batap	Charsel5. Charsel5.		
C SAME	Convert		
The PEAR Link Verse	Channel 10		
Dark og Viener	Channel 1		
11 Faile March State	Channel 15		
Haath David Salas	Chienel 15		
[9] Thus Health Densk Yolka	C   C Mpres 10		

### To create a new user account, please follow those steps:

- 1. Click the Add user button. The Edit User window appears
- 2. Input the desired ID and password for the User ID and Password/Confirm field.
- 3. If you want to use the same password for login to the remote device, check the Use DVR Server authentication check box.
- 4. Select the desired items from the Permission list to authorize those functions to a new user.
- 5. Select the devices from the Server Access Permission list to authorize access to them. By selecting the camera(s) in the Hidden camera list, you can also give a new user permission for individual cameras.
- 6. Click the OK button.
- 7. You can see that a new user account is created.

#### To modify an existing user account, please follow those steps:

- 1. Select one of user accounts.
- 2. Click the Update User button. The Edit User window appears.
- 3. Modify options you want to change or password if required.1
- 4. Click the OK button.

#### To delete an existing user account, please follow those steps:

- 1. Select one of user accounts.
- 2. Click the Delete User button.
- 3. You can see that the selected user account is deleted



### 12.8 E-mail

Pivot Pro notifies you of events by email. This option enables you to configure the details regarding which events cause email notifications.

- Enable E-mail Alarm: Check it to receive a notification through email.

WR List Setup	TEnable E-Mail Alacm	
Kem Monitor	Gores Little	Newsel Alarm Energy-of Harris Handh Trans Alarm
705	SendUse	
2 Uses	Display Name	E-Mail Address
E Mai		Secondary SMTP Setting
	Pernary SMTP Sating	Use Seconday SM1P Setting
	HostAddress	Here Automa
	Optime	Inches 1
	Garrent	Transit (
	Polt 25 PillasLage	Tet Z Thetes
	Tre	in the second second
	1	1000000

### 12.8.1 General

You can configure details in regard to sending email with this option.

- Send User: Input the name for Display Name and the email address for E-Mail Address to be displayed when Pivot Pro 2008 sends an email.
- **Primary SMTP Setting:** Input details for **Host Address, Port number, User Name, and Password.** You can test by clicking on **Test** button whether the information is correctly inputted.
- **Use Secondary SMTP:** Check it to be alternate for Primary SMTP Server in case of primary SMTP server NOT working.



### 12.8.2Users

You are able to make a list of recipients and set a type of alarm with this option.



### 12.8.3 Normal Alarm

You can assign the type/s of normal event such as **Motion**, **Sensor**, **Control**, **and Video Loss**, and then a notification would be sent to the recipients you've added. You may also type text on **Comment** portion.

Barera	Uners	Normal Alarm	Ris.	theresy Allem
Send E-Mail On Nor	mal Alarm Event			
V Use Moton	🕐 Sensor	Control		Video Loss
Every 3	Houts) - up to 23 hours		٠	Send E real
Command				

### 12.8.4 Emergency Alarm

You are able to assign the type/s of critical events, **Motion and Sensor** and then a notification would be sent to the recipients you've added.

General	Uses	Normal Alarm	Emergency Alam
Send E Mail On Erre	rgancy Alam Event		
Use (U			
Motion	E Sensor		
Comment			

### 12.8.5 Health Check alarm

You are able to assign the type/s of health check event, **Failure and Warning** and then a notification would be sent to the recipients you've added.

General	Uters.	Normal Alarm	Emilgency Nam	Health Eheck Alarm
Send E-Mail On Heal	h Check Event			
V Use				
T Fakse	📰 Warnin	g		
Comment				
- F				



### **13. Other features**

### 13.1 Sub menu on live mode

- Start: Start paused live display
- Pause: pause select channel live view
- Close: close selected live view channel
- Mouse Action: choose mouse action.
- Live capture: capture live image and save it.



- Reset zoom: Reset zoomed channel as original view.
- Reset all zoom: reset all zoomed channel as original.
- Real size: display as real size without in/decreasing live image.
- Fit to window: fit single channel live view as big as you live display pane.
- Full Screen : change to full screen without UI as current screen division
- Fit to Window with full: change to full screen selected channel only.
- Show all channels: works as 'Clone View' in live mode.
- Show new Window: pop up single channel view of selected channel.
- Voice Warning: only work with PC DVR. Send signal to connected PC DVR. Selected wave sound out to connected speaker on PC DVR side.
- Search : change to search mode
- Search in Live: change to search in Live mode.



PTZ control: show PTZ controller to control connected camera.

**8-direction arrow buttons** makes your camera pan and tilt.

To expand to **advanced PTZ control**, click  $\checkmark$  on the following menu bar.

With **PTZ control**, you are capable of using most of the significant functions related to **PTZ camera**.





- Advanced -
- Controls: activate connected DVR's relay out. Click control and choose one of relay out.



### 13.2 Sub menu on Connection list

### 13.2.1 Sub menu on Group level

Right click on 'Group' level on Connection list. It shows menu as following picture.

- Group Connect: connect all devices on current group.
- Group disconnect: disconnect all devices on current group.
- Add Device : See 'DVR list Setup' for more information.





### 13.2.2Sub menu on Device level

Right click on 'Device' level on Connection list. It shows menu as following picture.

- Connect : connect current device
- Disconnect : disconnect current device
- Connect all Cameras: Connect all camera and display on current division. \*if current division is 4, it only shows ch1~4.
- Disconnect All camera: disconnect all cameras on current display.
- Show all channels: make another live display pane and shows all channels of that DVR.
- Search: move to search mode.
- Close Search: close opened search tab.
- Voice warning: only work with PC DVR. Send signal to connected PC DVR. Selected wave sound out to connected speaker on PC DVR side.
- Device configuration: enter setup configuration of current DVR. Setup display is different by each DVR.
- Network Backup: Run available Network backup utility. Utility is different by each DVR.
- Clip Backup: run Clip backup feature on PC DVR.
- View Log files: get connected DVR's log data. Only work in available model.
- Move to Map: move to registered map.
- Add/Edit Device: move to 'DVR list setup'.

### 13.2.3 Sub menu on channel level

Right click on 'channel' level on Connection list. It shows menu as following picture.

- Show Live: display current channel live view.
- Close live: close current channel live view
- Open new Window: Open the channel on popup window.
- Pause Live: pause current live display.
- Search: move to search mode







- Close Search: close opened search tab.
- Search in Live: switch to Search in Live mode.
- Show PTZ control: open PTZ controller on live display

### 13.3 LOG

Go to 'Menu->LOG', it display Pivot Pro system log message. Choose date with red circle and it shows Pivot Pro system logs.

And Concess And Co	

### 13.4 Version

Go to 'Menu->Version' to get Pivot Pro version and more detail information. To get detail information, press the 'System & File Information' button.

### 13.5 PC DVR multiple search

Multiple DVR search is available only for PC DVR. Generally it goes search mode with right click and choose 'Search' options for all types of DVRs. But for PC DVR, you can search multi DVR's channels in same search pane.



#### How to Use

- Go to 'Menu->PC DVR multiple search'
- Select screen division on tool bar.
- Choose date and time to be searched.
- Select PC DVR channels and Drag and drop to search pane
   \*other DVR won't be searched in this mode. Other DVR search is available by select search.

### 13.6 Backup Viewer

Provide Backup viewer for embedded DVRs. Move to 'Device configuration->Backup viewer' and select backup viewer for you desired embedded DVR model.





# **Appendix A. Remote Access Using I.E.**

DVR can be accessed remotely using Internet Explore. Execute Internet Explorer and enter the DVR's IP address or DDNS address to connect. The welcome screen below will appear.

💣 Windows Internet Explorer			
G . + @ http://152.160.1.14:18003/		(* (* (* ) Emple	-10
* & p-		<u>@</u> •⊡ ∺•	· (의주고 () • (의지)의 • '
Remote Monitoring S	ystem		
0:			
Paktword			
Port Hamber			
Concernance of the second			
Live Plays	RCK .		
27		G 2914	-1,100% ·

Enter the user ID, password, and Port information (default: 10101). Select whether to view Live or Playback video from the DVR.

The system will request to install ActiveX files to view video from the DVR remotely. Please install all Active X when Internet Explore displays Active X installation message.



Live Monitoring

Playback

*Note*: Web is supported only on Internet Explorer 7.0 or above.



## **Appendix B. How to set DDNS using router**

**NOTE:** The information below does NOT apply to scenarios where the DVR as a public IP address or an ADSL connection is used directly.

The instructions below are a general explanation of the steps required to be able to connect to your DVR remotely over the internet.

Please note that these are only generic instructions and may differ greatly pending on your router's make and model.

It is highly recommended that you contact your Network Administrator or Internet Service Provider (ISP) for proper configuration of your router.

The example below will demonstrate how to setup 3 DVRs for external remote connection.



### 1. Domain Name Creation

- Go to http://www.dvr-ddns.com/
- Click 'Sign up!' to create an account.





- Fill out the registration information as below.
- Click 'Submit'.

the second	enno	20127	NULL CONTRACTOR	10-00 %
	1211	9.1		10.82011
	1.122-1	1.00.00		
DOME				
and the sector				_
We	elcome to DVR	DDNS		
		ing same lafter or sugar		
			(ed.)	
	Children and an oral	1011100		
		hinder or		
		immer Yesen		
		innenn Ynenn Kapp		
		Seene Seene Fage Jay two test and		
		Server Server Server Server Server Server	-	
		Server Sear Sear Sear Sear Sear Sear Sear Se	al.	
		Yere Yere Say Inchestering Jahr Line	ja ja	

- Enter your domain name and click 'Request Domain'.

IDIG: - WINDOWS INA	amer Exporter	1
· · · Mechanism	the entrological set from the Clinese Clinese Claim for an and	
AB DAY SOUT	Real Real Mark	X9.87
-		
DDMS	ĵ	
tions lines have		_
Bare Bellings	Domain Name Creation	
Denami	The rest sector we have	
Lopest		
	The book present in the second present of the second present of the book present of the second present of the	
	der ff der datus sans fm Respect Chromae	
	Weight Instead & Weight	

- The registered domain name will appear as shown below.
- You can create 3 domain names for one account.
- Click "Create additional domain names" to add another domain name.





### 2. Router Configuration

- To access your router, enter the router's IP address in an Internet Explorer web page. The Router's IP address will be your Gateway information.

- Go to the "Port Forwarding" Menu. Menu options and name may vary by router make and model. The image below is that of a Linksys router.

Eneck + () (1)	Forward.	Search )	Festiles	er Heda	0 0.31	n • 🛄 (se 🛛
ge-	- #	Search Web	20	@ news	Exertist # 14	artus Autorius
		-				_
A LINKSYS	Citors -		ating Ban	Man Hay	1 Uss MACAMIL	Setup
ORT RANGE DRWARDING	When the will be	isers from the redirected to xt.Port	Protocol	Protocol	IP Address	Enable
DVRI	10101	Te 10103	E	001	192 168 1 10	129
DVR2	10104	Te 10105	F	1	197.168.1.11	127
DVR3	10107	Te 10109	8	0	192.168.1.12	E
WEBL	80	To 80	E.		197.168 1.10	192
	Ð	10 0	E		192.168.1.0	
	0	To 0			192.168.1.0	
-	D	To 0			192.168.1.0	0
	p	To 0		0	192.168.1.0	
	0	to 0			192.168.1.0	
	8	To 0			192.168.1.0	
	UP	nP Forwarding		on Triggen	u ]	

- Insert the IP address and Port number for each of your DVRs in the Port Forward menu.

- The Ports you enter in this menu will be "opened" for incoming traffic and be assigned to your DVR directly. By opening these ports, the router will re-route any incoming data coming to these ports to the corresponding DVR

- Specify the WEB port number to access the DVR with Internet Explorer. Default port number is 80.



### 3. DVR Configuration

Address	Port				
	Type :	DHCP			-
	IP Address :	192 . 168 .	103 .	118	Ð
	Subnet Mask : [	255 , 255	. 255 .	0	÷
	Gateway : [	192 . 168	. 103 .	1	÷
	0	] DNS serve	er add	ress a	utomatica
	DNS Server :	8.8.	8	8	Ð
	10 : [				T.
	Password				Tel 1

Set the DVR's Network Connection type to Static and manually enter all the information below according to your network settings and requirements. Please contact your Network Administrator and ISP for more information.

NETWORK + Addr	ess	]						
Address Port								
Net=o	Network Port : 10101							
w	Web Port : 80 ÷							
	Use UPnP							
		Port						
	Live	10101						
	Playback	10102						
	Setup	10103						
	0 K	Cancel	]					

Make sure the ports for DVR are all set accordingly and that they match the ports you have entered in your router for this DVR.

ſ	NETWORK I DDNS
	Use DDNS DDNS Server : dvr-ddns.com Hostname : 6606955E.dvr-ddns.com User Authentication D : tester@abc.com H Password : *******
	Update O K Cancel

If DDNS was setup, enter the registered information in the DVR's DDNS setup page. ID and PW are required for the registered server authentication.



# Appendix C. Digital Signage Maker

Digital Signage Maker converts any video files into DVR's Digital Signage format (JPG). Digital Signage Maker Options and Limitations: (Before/After Conversion)

	Video File	Digital Signage File
Conversion	Video Files	JPG
File Name	No Limits	Filename_00001.JPG, Filename_0002_JPG ~
File Size	No Limits	256KB per each JPG File
Video Type (Size)	No Limits	Select either NTSC (704 x 480) or PAL (704 x 576)
FPS	No Limits	15 FPS only
upportedAll File Extension except JPG, BMP, and JPEG are supportedJPG		JPG
Supported Codecs	MPEG(Moving Picture Experts Group) MOV(QuickTime) AVI(Audio Video Interleaved). WMV DAT ASF MP4 Etc.	JPG



### 1. How to use Digital Signage Maker

### a. Select Source Video File

Files with extensions such as JPG, BMP, and are not supported.

Please refer to above list for right file formats.

### **b. Select Output Device**

Existing Logical drive or Removable device is displayed as Drive Name.

DeviceName\advertise is the default file folder name that MUST be changed or renamed. If the \advertise folder is already created, the file will overwrite the existing one.

### c. Enter Output File Name

Enter file name. The file name is automatically created with numbers in order as follow: **E.g.** filename\_000001.jpg, filename\_000002.jpg...

### d. Select Video Type

The file can be saved as NTSC (704 x 480) or PAL (704 x 574) according to Video Type without affecting display resolution.

### e. Click Start Button

Click the start button. Play time and End time of Video File are shown under the progress bar. The Video conversion process will be displayed in the window.

### f. Import Digital Signage File into DVR

Create a folder by name of 'advertise' and same the files in that folder in USB flash memory. Files must be saved in the folder and the folder name should be 'advertise'. DVR will not recognize any other folder names.

Once it is done, connect USB flash memory to DVR and follow Digital Signage instructions (Import) to use Digital Signage features.

(Refer to Chapter 3. 2-3-4. Digital Signage for the detail)





# **Appendix D. iOS Mobile Client**

This application allows you to access and **live monitoring** your DVRs. Recording data **playback** and DVR **setup** also provided. Key features:

- 1. Live H.264 Video and Audio Monitoring
- 2. Multi-Screen View
- 3. Playback
- 4. Event Check
- 5. Alarm Out Control
- 6. DVR Setup from remote
- 7. PTZ Control
- 8. Push Notification Alarm

#### 1. Installation

- A. Search with the keyword 'Digital Watchdog' or 'VMAXHD Flex' on app store.
- B. Install DW VMAXHD Flex Mobile Client on your device.

#### 2. Main UI

-⇔ 2.‡ 5:18 ± ₩20	Menu	Description
lite Auto Alarm +	Edit	Edit and Delete site
	Site	Show the registered DVRs list
	Auto	Find accessible DVRs in local network and it will be updated in the list
02.27	Alarm	Show the Push notified alarm list
	+	Add a DVR site
	1	
Live Playback Setup	Liv	e Playback Setup
x Setup	Liv	e Playback Setup Description

< Figure 2 – Main UI >



### 2.1 Add Site

i. Click the 🔳 button to add site. See below image.



- < Figure 2.1 Register site >
- ii. Input <u>name</u>, address, port and optional information.
- iii. Click we button.

### 2.2 Edit and Delete site

- i. Click witton on Main UI.
- ii. To delete sited, press 😑 button. *<figure 2.3>*
- iii. To edit site information, touch site name *<figure 2.2>*
- iv. Click button to remove site from the list



< Figure 2.2 – Delete site >

### 2.3 Site Auto Detection

olieh 🗢 Site	Auto Alarm
HD08-239	
DVR 04 (3)	
ED04 YYY	
HD08P-243	3
DVR 04	
DVR 08 (2)	
ED04R YYY	1
TOA04P_JS	SH
Live	Playback Setup

- Click **'Auto'** tap to find accessible DVRs in local network and it will be updated on the list.

< Figure 2.3- Auto Detected >

### 3. Live

A. Select 'Live' mode and connect remote site. See the <figure 1.2>

	Camera	Event Alarm
oleh ⊖ 2.0,5:20 (MB)	Menu	Description
M4	Camera	DVR's camera name list
Ma	Event	Event list
M2	Alarm	Alarm control list
M5 M6		
M7		
M7 M8		
M7 M8 Camera Auron		

< Figure 3- Live mode >



### 3.1 Live monitoring

- i. To enter live monitoring mode, touch camera name.
- ii. 2 Display modes are available. (Full screen / 4-division mode)



< Figure 3.1- Live monitoring >

### 3.1.1 PTZ Control

- i. Control PTZ(up/down/left/right, Zoom) using PTZ button in live view.
- ii. PTZ Buttons available on single screen mode only.



< Figure 3.11 – PTZ Control >



### 3.2. Event list

- i. Event name and Camera number are displayed.
- ii. Event triggered time also displayed.

Logout Test	Alarm	lcon	Alarm	lcor
Notion 08 2013. 7. 11. 유원 9:59:12	Motion	×	Record Bad	
Motion 07 2013 7, 11, 9月959:12			-	-
Notion 06 2013. 7. 11. 오전 9:58:12	Sensor	((0))	Disk Full	1
Notion 05 2013. 7. 11. 泉暦 9:59:12	Text In	T	Fan Failure	4
Motion 04		*		
Motion 03 2013.7.11. 免疫 9:59:12	Smart Bad		No Storage	1
Motion 02	Smart	Sa	Unknown	
Notion 01	Temperature		cinite init	
Motion 08	Disk Bad			

< Figure 3.2 – Live event list >

### 3.3 Alarm control list



- To Control Alarm, use the Alarm button in Alarm tap.

< Figure 3.3– Control alarm list >
## 4. Playback

_olich 🕫	오전 11:08	
Logout	Test	C
Event		Event
2013. 7. 7		
2013. 7. 6		
Time		
2013. 7. 1	1.	
2013. 7. 1	0.	
2013. 7. 9	,	
2013. 7. 8		
2013. 7. 7		
2013. 7. 6		Time

- Select '*Playback'* mode and connect remote site. See *< figure 2.1>* 

- Possible to choose '*Event or Time*' search mode.

< Figure 4 – Playback mode >

## 4.1 Time search

- i. Select date on '*Time'* index *<figure 4.1>*
- ii. It displays recording status.
- iii. Set search time. (Press and hold Time table or click 🕓 button)
- iv. Click jump message button.
- v. Start 'playback'



< Figure 4.1 – Timetable & search time >

## 4.2 Event search

- i. Select 'Event' on date <figure 4.1>
- ii. It displays event list. Each event has Icon, channel and event triggered time information.
- iii. Click event list, it will start 'Playback'
- iv. Possible to select event and channel. *<figure 4.4>*



< Figure 4.2 – Event search UI >



< Figure 4.3 – Event search Option >



### 5. Setup

A. Select 'Setup' mode and connect to remote site. See the <figure 2.1>



< Figure 5 – Setup UI >

<Note> Setup UI could be different by what your local dvr is <figure 5.1>.

#### 6. Push notification

- A. DW VMAXHD Flex Mobile Client will need to get '*push notification key*' from apple server when launched.
- B. Set dvr's push notification option. See the *<figure 6.1>*
- C. After configure, once the Event triggered from DVR then iOS device will receive push alarm.

See the *<figure 6.2>* 

Name	Local Fd	Us	e Push Notification	C
Address	192.168.202.58	Pu	sh Event	
Live port	10101	(10)	Sensor	
Auto Login		*	Motion	0.0
riate Login		P.W.	Video Loss	00
User Name	Administrator	70	System Alarm	00
Password				
Push Notifi	cation Off >			

< Figure 6 – Push Notification configure >





- iOS Device displayed Banner and Sound pops up when it receives *Push Notification Alarm.* 

- Icon badge means, how many alarm triggered on DVR.

- If the DW VMAXHD Flex Mobile Client opened, the badge on icon will be removed.

< Figure 6.1 – Push Received >



< Figure 6.2- Alarm tab >

- 'Alarm' on Main UI <figure 2.1>

- Tab **'Alarm'**, it will display push notification event. *<figure 6.3>* 

- Each list contains alarm, icon, channel and alarm triggered DVR and time.

- Tab one of the list and the DW VMAXHD Flex Mobile Client will connect DVR automatically.

- Alarm list can be seen up to 300. If more than push alarms received, it would delete from oldest alarms.

*<Note>* DVR must support push notification service. If DVR doesn't support this service, neither will DW support push alarm service.



# **Appendix E. Android Mobile Client**

This application allows you to access and **live monitoring** your DVRs. Recording data **playback** and DVR **setup** also provided. Key features:

- 1. Live H.264 Video and Audio Monitoring
- 2. Multi-Screen View
- 3. Playback
- 4. Event Check
- 5. Alarm Out Control
- 6. DVR Setup from remote
- 7. PTZ Control
- 8. Push Notification Alarm

#### 1. Installation

- C. Search 'DW VMAXHD Flex' or 'Digital Watchdog' on play store.
- D. Install DW VMAXHD Flex on your device.
- < Figure 1.1 search and install DW VMAXHD Flex >

#### 2. Main UI



< Figure 2– Main UI >



## 2.1 Add Site

iv. Click 'Menu' + 'Add' button. <figure 2.1>

-

v. Input the name, address, port and optional information + Click 'Add' button



Name :	Site Name
Address:	Site Address ( IP or DDNS)
Port:	Network live port set on DVR
<b>Optional inform</b>	ation
Auto Login:	Turn on/off auto login
Username:	ID set for DVR
Password:	PW set for DVR
Use Push	Turn on/off push alarm use
Notification:	
Sensor/Motion/	Video Loss/System Alarm
Choose the pu	ish alarm option

< Figure 2.1 – Register site >

## 2.2 Edit and Delete site

- v. Click 'Menu' + '*Edit'* will display Edit site mode.
- vi. After select a site to edit will Same as *<figure 2.2>*
- vii. Click 'Menu' + 'Delete' will display Delete site mode. See the <figure 2.3>



< Figure 2.2 – Edit & Delete site >

## 2.3 Import & Export

- i. Click 'Menu' + 'Import' or 'Export'
- ii. Import : Load the information in '/sdcard/iMon/site.db'
- iii. Export : Save the information in '/sdcard/iMon/site.db'

#### 3. Live

B. Select 'Live' mode and click 'OK' to connect remote site. See the <figure 3.1>



< Figure 3 – Live mode >

### 3.1 Live monitoring

- iii. To enter live monitoring mode, touch camera name.
- iv. 2 Display modes are available. (Full screen / 4-division mode)



< Figure 3.1 – Live monitoring >



## 3.1.1 PTZ Control

- iii. Control PTZ(up/down/left/right, Zoom) using PTZ button in live view.
- iv. PTZ Buttons available on single screen mode only.



< Figure 3.1.1 – PTZ Control >

#### 3.2 Event list

- iii. Event name and Camera number are displayed.
- iv. Event triggered time also displayed.



< Figure 3.2 – Live event list >

## 3.3 Alarm control list



Figure 3.3 – Control alarm list >

- To Control Alarm, use the Alarm check button in Alarm tap.

#### 4. Playback



< Figure 4 – Playback mode >

- Select '*Playback'* mode and connect remote site.

- Possible to choose '**Event or Time'** search mode.



## 4.1 Time search

- i. Select date on 'Time' index <figure 4.1>
- ii. It displays recording status.
- iii. Set search time. (Press and hold Time table or click the 'Menu' button)
- iv. Click the jump message button.
- v. Start '*playback'*

91 42 42 54 55 56 57 58	e with on the set of our on the set 01 02 03 04 04 04 04 05 0500 A	ar ov 19
A C 10:05 AM	04 05 06 07	
ary militia	EDUS_CAINT	

< Figure 4.1 – Timetable & search time >

### 4.2 Event search

- v. Select '*Event'* on date *<figure 4.1>*
- vi. It displayed event list. Each event has Icon, channel and event triggered time information.
- vii. Click event list, it will start 'Playback'
- viii. Possible to select event and channel. <figure 4.4>



< Figure 4.2 – Event search UI >



< Figure 4.3 – Event search Option >

### 5. Setup

A. Select 'Setup' mode and connect to remote site.



< Figure 5 – Setup UI >

<Note> Setup UI could be different by what your local dvr is <figure 5.1>



#### 6. Push notification



<Figure 6 – Push configure >

Contraction of the second seco

< Figure 6.1 – Push Received >

- **DW VMAXHD Flex** got the '*push notification key*' from Google server when launched.

- Set the dvr's push notification option. See the *<figure 6.1>* 

- After configure, once the Event triggered from DVR then Android device will receive push alarm. See the *<figure 6.2>* 

- Android Device displayed Banner and Sound pop up when it receives *Push Notification Alarm.* 

- Banner Icon badge means, how many alarm triggered on DVR.





< Figure 6.3 – Notification tab >

- 'Notification' on Main UI

- Tab the '*Notification'*, it will display push notification event. *<figure 6.3>* 

- Each list contains alarm, icon, channel and alarm triggered DVR and time.

- Tab one of the lists and DW VMAXHD Flex will connect DVR automatically.

- Alarm list can be seen up to 300. if more than push alarm received, it would delete from oldest alarm deleted.

*<Note>* DVR must support push notification service.

If DVR doesn't support this service, neither DW VMAXHD Flex support push-alarm service.



# Appendix F. PFRM Instructions (PC Free Remote Monitoring)

## 1. Outline

It allows a direct remote connections on LIVE/PLAYBACK between DVRs without a PC by connecting a DVR remotely from another DVR.

## Note:

- PFRM supports its feature in same models and later models are not applied. DW-VFHD <-> DW-VFHD (available)

- Audio and PTZ are supported. (Supports Audio in single screen mode)
- Backup option is not supported on Remote Playback.

## 2. How to connect

## A. Live & Playback Mode

Follow the direction "Remote -> Live or Playback" in Contextual Menu on Live.

Live: Administrator		
Digital Signage		
Camera	>	
OSD	~	
Freeze		
Display	>	
Audio		
PTZ		
Backup		
Playback	>	
Remote	>	Live
Emergency Record		Playback
Log		
Setup Menu		

The system is switched to Remote Live or Playback Mode and the list of Remote Site (up to 100 sites) will be displayed on the screen.



Remote Live	Remote Site
Remote Site Remote Site X   1 DVR11-192-184.0.12 4 X   2 DVR21-192-184.0.13 4 X   3 4 4 X   3 4 X X   5 4 X X   6 4 X X   7 4 X X   8 4 X X   9 4 X X   10 X X X	Name : DVR1 ++ Address : 192.168.0.12 ++ Network Port : 10101 ++ D Addre Legin ID : Addre Legin ID : Addre Legin Password : ******** ++ Password : ********

Select a site you want to connect to. Select Edit to modify a remote site's information. Press the  $\boxdot$  button to add a new remote site, or delete the site by using the  $\boxtimes$  button.

**Name**: Enter the remote site's name.

**Address**: Enter the remote site's IP address.

**Port**: Enter remote site's port information. Default port: 10101.

**User / Password**: Enter User and Password to log in. User has to be set with authority of Network.

After the editing is done, click 'Done' button.

F	Remote Live		
Remo	ote Site		
	Remote Site		×
1	DVR1: 192.168.0.12	ŧ	х
2	DVR2: 192.168.0.13	4	×
3		4	×
4		4	×
5		41	×
6		4	×
7		4	×
8		4	×
9		4	×
10		4	×
<	1/10 > Done		+
	Close		

## **B. PTZ Mode**

To enable remote PTZ control mode, right-click on the screen and select Remote PTZ from the pop-up menu.



## **COMPLIANCE NOTICE OF FCC:**

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE, IN WHICH CASE USERS WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

WARNING: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS OF DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

## WEEE (Waste Electrical & Electronic Equipment)

**Correct Disposal of This Product** (Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



