# USER MANUAL

# 09 CHANNELS NETWORK VIDEO RECORDER

#### **INSTRUCTION MANUAL**

To obtain the best performance and ensure device function correctly, please read this instruction manual carefully and completely.

FCC Compliance

**USER-INSTALLER CAUTION:** YOUR AUTHORITY TO OPERATE THIS FCC VERIFIED EQUIPMENT COULD BE VOIDED IF YOU MAKE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE TO PART 15 OF THE FCC RULES.

**NOTE:** THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

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

#### WARNINGS, CAUTIONS & COPYRIGHT

#### WARINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

#### CAUTION



#### **Explanation of Graphical Symbols**



USERS OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES COIPCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNALS. ULTRAK SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURRENT LAWS AND STATUTES.

#### COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

# TABLE OF CONTENTS

1	INTR	ODUCTION	5
	1.1	FEATURE	5
	1.2	SPECIFICATION	5
2	HAR	DWARE OVERVIEW	8
	2.1	FRONT PANEL	8
	2.2	BACK PANEL	9
	2.3	ADVANCED AUTO SWITCH ZOOM, PTZ, COPY KEY CONTROL & USB	
	INFO	RMATION	9
	2.4	CAMERA & MONITOR LOOPING	. 10
	2.5	EXTERAL ALARM	. 10
	2.6	IR REMOTE CONTROL	. 11
	2.7	PTZ (PAN, TILT AND ZOOM) CAMERA	. 12
3	SYST	EM SETUP	. 13
	3.1	MENU SETUP INTERFACE(GUI)	. 13
	3.2	LIVE VIEWING AND POP-UP MENU	. 15
	3.3	CAMERA SETUP	. 18
	3.4	AUTHORITY SETUP	. 22
	3.5	NETWORK SETUP	. 24
	3.6	SYSTEM SETUP	. 29
	3.7	RECORD SETUP	. 31
	3.8	DISK MANAGEMENT	. 32
	3.9	ALARM SETUP	. 33
4	NVR	PLAYBACK	. 35
	4.1	TIME SEARCH	. 36
	4.2	EVENT SEARCH	. 36
	4.3	BACKUP	. 37
5	BACI	SUP PLAYBACK	. 39
	5.1	MAIN SCREEN SETTING	. 39
	5.2	USB & LOCAL BACKUP FILE PLAYBACK	. 43
	5.3	BACKUP FILE TO AVI	. 45
6	NETV	VORK VIEWING & PLAYBACK	. 46
	6.1	IP ADDRESS SETUP ON PC SITE	. 46
	6.2	OPTIONAL MICROSOFT INTERNET EXPLORER SETUP	. 47
	6.3	LOGIN	. 50
	6.4	REMOTE CONTROL	. 51
	6.5	CONFIGURE	. 56
AP	PENDI	X A: RECORDING TIME LAPSE (HOURS)	. 65
		X B: HDD COMPATIBLE TABLE	

APPENDIX C: ERROR MESSAGE LIST
--------------------------------

# **1 INTRODUCTION**

# **1.1 FEATURE**

- I H264 decompression format support.
- I Real-time Display & Playback
- I Support Mega Pixel Camera for each channel.
- I Support CMS (Central Management System)
- I Audio Backup / Audio Streaming.
- I Graphic User Interface (GUI)
- I Support time-point backup function under Ethernet remote control mode. User can select any time period to process backup from remote side.
- I Support time-search & event-search function under Ethernet remote control mode.
- I Up to four online clients for independent remote control; individual live-time, play-back & time-search function available
- I Support PPPoE/ Static/ DHCP IP & DDNS.
- I Powerful mobile surveillance function, support JAVA、 blackberry、 i-Phone & Windows mobile
- I Support log function

# **1.2 SPECIFICATION**

	VIDEO
MODE	Multiplex
DISPLAY CHANNEL	Max. 9 Channels
SUPPORT IP CAM RESOLUTION	Up to 1600 x 1200 (2 M-pixel)
DISPLAY FRAME RATE	Up to 30 FPS @ NTSC per CH
SPLIT SCREEN	1, 4, 9
VIDEO OUTPUT (VGA)	Yes
VIDEO OUTPUT (HDMI)	Yes
-	AUDIO
AUDIO OUTPUT	Phone Jack × 1
AUDIO INPUT	Phone Jack × 1
AUDIO BACKUP	Yes
AUDIO STREAMING	Yes
	RECORDING
COMPRESSION TYPE	H.264

RECORDING RATE	Up to 30 FPS @ NTSC per CH	
RECORDING MODE	Manual / Schedule / Alarm	
PLA	YBACK & SEARCH	
PLAYBACK SPEED	Fast Forward X 2 X 4 X 8 X 16 X 32 X 64 Fast Backward X 8 Frame by Frame Playback Pause	
TIME SEARCH	Yes	
EVENT SEARCH	Yes	
OSD &	CONTROL INTERFACE	
ON SCREEN DISPLAY & SETUP	Time / Date / Setup Menu	
GRAPHIC USER INTERFACE (GUI)	Yes	
MOUSE	Yes	
IE BROWSER	Yes	
PLAYER	Yes	
STORA	GE & BACKUP DEVICE	
INTERNAL HDD SUPPORT	SATA HDD x 4	
EXTERNAL USB BACKUP DEVICE (PAN DRIVE, HDD, BURNER)	Yes	
	NETWORK	
ETHERNET	Yes (1G)	
IE REMOTE CONTROL	Yes	
DDNS	Yes	
NTP	Yes	
E-MAIL & FTP	Yes	
NETWORK IP	Static/ DHCP/ PPPoE/DDNS	
MULTI-REMOTE CLIENT	Yes ( 4 Clients at the same time available)	
	ALARM	
ALARM INPUT	8 In	
ALARM OUTPUT	2 Out (NO/ NC)	
MOTION DETECTION	Yes	
MOTION DETECTION AREA	Yes	
MOTION DETECTION SENSITIVITY	1-10	
VIDEO LOSS DETECTION	Yes	
ALARM RECORDING	Yes	
PRE-ALARM RECORDING	Yes	
BUZZER	Yes	

SETUP & OTHER FUNCTIONS			
DAYLIGHT SAVING TIME	Yes		
WATER MARK	Yes		
PRIVACY MASK	Yes		
PTZ CONTROL	Yes		
RS-232	Yes		
RS-485	Yes		
DIGITAL ZOOM	Yes		
PASSWORD CONTROL	Two levels, one for system and the other for HDD format		
KEY-LOCK	Yes		
MULTI-LANGUAGE	Yes		
FIRMWARE UPDATE	USB Host & Update on line		
	OTHERS		
POWER INPUT	AC 100V		
DIMENSIONS (W x H x D)	430mm (W) × 88mm (H) × 382mm (D)		
OPERATION TEMPERATURE	0 - 45		

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

# 2 HARDWARE OVERVIEW

# 2.1 FRONT PANEL



# **NVR OPERATION**

NO.	LABEL	OPERATION	PTZ
1	$\square$	IR Sensor For Remote Control.	
2	LED	Led Indicator	
3	<b>\$</b>	USB Connector	
4	MIC IN	Mic phone input(Phone Jack)	



NO.	LABEL	OPERATION	
1	HDMI MONITOR OUT	HDMI video output	
2	HDMI/ VGA	Switch HDMI and VGA output	
3	VGA D-SUB OUT	Connect to CRT or LCD monitor。	
4	POWER	Power switcher: DC 12V/ 5A input	
5	RS-485/ ALARM IN/ RELAY OUT	2 pin RS-485/ 8 pin alarm input connector; 2 pin GND connector/ 2 pin Relay connector, 1 pin COM connector	
6	ETHERNET	RJ-45 connector。	

# 2.3 ADVANCED AUTO SWITCH ZOOM, PTZ, COPY KEY CONTROL & USB INFORMATION

- AUTO SWITCH : In the split screen mode, use the "AUTO" key in the front panel to enable auto switch function. Moreover, press "AUTO" key again to disable it.
- **ZOOM :**In the full screen mode, user can use "ZOOM" button on the front panel to perform ZOOM function. Press , located on the front panel, to move the zoom window.
- PTZ : When camera supported PTZ function, user can use "PTZ" button, located on the front panel, to perform PTZ function. Press to select and change setup value.
- **COPY**: Within the playback mode, press "COPY" button to start backup record and press "COPY" again to end backup. The user can see the backup image approx. 3 ~5 sec.
- USB INFORMATION: Within the LIVE VIEWING, press "ENTER" key in the front panel will present the USB information. (NOTE: Please confirm that USB Device has plugged into NVR.)

#### 2.4 CAMERA & MONITOR LOOPING

Here recommend link cameras by sequence to avoid unexpected image broken, from CH1, CH2, CH3, CH4.....

#### 2.5 EXTERAL ALARM

There are three types of alarms that the system can be configured to handle. They are <u>Motion detection Alarm</u>, <u>External Alarm</u> and <u>Video Loss Alarm</u>.

A. Motion detection Alarm and External Alarm:

When motion detection or External Alarm was triggered, there are 5 possible actions will be taken.

- a. Monitor will display corresponding full screen alarm channel, it will switch automatic mode to manual mode if buttons pressing activity occurred in 5 seconds.
- b. Relays can be activated by motion detection or external alarm when turning on.
- c. External alarm will be recorded in the event list. Motion detection can be set to yes or no.
- B. Video Loss Alarm:

The default setting of Video Loss alarm is enabled and cannot be changed. Although buzzer action can be disabled, an ALM record will still be added to the Event List that indicates the precise time of video loss.

# 2.6 IR REMOTE CONTROL



	ITEM		
AUTO	Press AUTO to switch channel by channel automatically.		
SEL	Press this button to select the different assembled of camera formats or perform PTZ functions. Moreover, under the 16 split screen and full screen modes, press this button for switching Audio ON/ OFF.		
.REC	Press REC to start recording & again to stop.		
1-16	Press the button to select the channel for full screen.		
	Fast backward		
-	Picture by picture backward play		
	Picture by picture forward play		
▶	Fast forward		
	Play video forward		
MODE	Split Screen Switch		
ID	**ID setup to control NVRs		
	Switch split screen & Move upward or increase.		
	Switch split screen & Move right or increase.		
	Switch split screen & Move downward or decrease.		
	Switch split screen & Move left or decrease.		
L	To enter item or make choose.		
MENU	To into or exit main menu		
STOP	Stop play and playback		

# 2.7 PTZ (PAN, TILT AND ZOOM) CAMERA

Following diagram for NVR connect between PTZ camera & joystick controller, for NVR to control PTZ camera please make sure the CAMERA ID, BANDRATE (default at 9600 bps) and RS-485 cable.



Under "Two Core" connection, controller can control speed dome without integrated protocol into NVR. Moreover, one keyboard can connect MAX 256 units of speed dome.



#### SYSTEM SETUP

3.1 MENU SETUP INTERFACE(GUI)



























### 3.2 LIVE VIEWING AND POP-UP MENU



NOTE : The pop-up menu can be activated by moving the mouse cruise to the bottom of the live viewing screen.



With live viewing mode, press this button to get into the GUI menu.

0	CAMERA
1	AUTHORITY
0	NETWORK
8	SYSTEM
- 222	RECORD
	DISK
$\mathbf{\mathbf{Q}}$	ALARM
2	EXIT

# B. DISK INFORMATION

With live viewing mode, press this button to display disk information.



C.

# **DIGITAL ZOOM**

In the live full screen mode, left-click the button of the mouse to pull a range to zoom in or zoom out the image. User can right-click the button of the mouse to disable this function. (NOTE: Using the mouse to operate digital zoom can zoom in to max. 16 times.) Moreover, user can also use ZOOM key on the front panel to perform this function. (First, click ZOOM Key and then click key to select zoom in or zoom out position. Finally, click ENTER key to complete the setting. Moreover, click ZOOM Key again can disable digital zoom function. Using the panel key to perform zoom in function is fixed at 2 times.)



Within live-viewing mode, Clicks this button to get into the PTZ setup menu. User can right-click the button of the mouse to exit PTZ Setup.

```
NOTE : Only for the camera supported PTZ function. PTZ CONTROL
```



Point	ter:	0 )
60	5.832	CLEAR
СН	1	•

**PRESET POINTER NUMBER:** Press **to** save preset point number and its position; **to** reserve the setting and **to** delete preset point setup.

**GO TO PRESET NUMBER:** Press to go to the setup preset point number position.

E. TWO-WA

# TWO-WAY AUDIO CONTROL

Press this button to enable or disable two-way audio function



E.

G.

# **AUDIO VOLUME CONTROL**

Press this button to control the audio volume.



# **DISPLAY CONTROL**

Within live-viewing or playback mode, use display control to switch the camera channel.



# **RECORD AND PLAYBACK CONTROL**

Same as front panel controller and remote controller.





Pressorto select items.Pressorto change values.PressSET to see more options.

A. IPCam Setup

	IPCam Setup
IPCam Q	uick Search 🛹
Enable IP Address	192.168.1.241
Port	80
User	admin
Password	
State	
	Connect IPCAM
	Save Cancel

A-1. IPCam Quick Search



Press the "IPCam Quick Search" button and click "Search Device" button in the following, NVR will search the IPCAM devices which IP address are setup as the same domain as NVR IP address. Moreover, click the IPCam device which from the list can import the device information to the channel automatically without any manual key-in step.

- 1. Enable : Click the checkbox to decide performing the connection or not.
- 2. IP Address : Insert the IP address of the connecting device.
- 3. Port : Insert the port number of the connecting device.
- 4. User : Insert the user name of the connecting device.
- 5. Password : Insert the password of the connecting device.
- 6. State : After click the "connect IPCAM" button to test the IPCAM device, the connection state will reveal among this column.

A-2. Connect IPCAM : After insert the IPCAM related information, click this button to test the connection circumstances.

**B. IPCam Video Setup** 



#### **B-1.** Resolution

Click drop down list to change the resolution of connecting device.

#### **B-2.** Quality

Click drop down list to change the image quality. (Currently, the maximum quality of the 09CH NVR is 18M/bps)

#### **B-3. FrameRate**

Click drop down list to change the frame rate of connecting device.

#### **B-4. Video System**

To reveal the video system of connected IP Cam device. (NTSC or PAL)

#### **B-5. Video Format**

To display the video format of connected IP Cam device. (H.264, MPEG4 or MJPEG)

#### C. IPCam Image Setup

Display	M	
Title	CH01	
SwitchDwell	1	4 5 )
Contrast		
Brightness		
Hue		
Saturation		
Sharpness		

#### C-1. Display

Use the mouse to enable or disable the camera display on the screen or not.

# C-2. Audio

Click the checkbox to decide enable or disable the audio function.

#### C-3. Title

Use the mouse to setup the title of connecting IP device.

#### C-4. Contrast

Press or to change contrast level. The adjustment value is between 0~255

# C-5. Brightness

Press or to change brightness level. The adjustment value is between 0~255

C-6. Hue Press

or to change hue level. The adjustment value is between 0~255

#### C-7. Saturation

Press or to change saturation level. The adjustment value is between  $0{\sim}255$ 

#### C-8. Sharpness

Press or / mouse wheel to change sharpness level. The adjustment value is between  $0\sim15$ 

#### C-9. Switch Dwell

Press or to change auto switch second. The value is between  $0\sim99$  sec.

#### **D.** Motion Setup

Relay Dw	vell 🗗	-	_		-	I off ▶
Buzzer D	well 🗗	-		_	_	I off ▶
Areal	Sensitivity		0	Þ		Motion Area Setup
Area2	Sensitivity	4	0	Þ		Motion Area Setup
Area3	Sensitivity		0	Þ		Motion Area Setup

#### **D-1. Relay Dwell**

Press or to change the relay time or disable relay function.

#### **D-2. Buzzer Dwell**

Press or to change the buzzer time or disable buzzer function.

#### **D-3.** Area1 Sensitivity

Press or to change the sensitivity of setup motion area in Area1. The motion area is drawn in blue.

#### **D-4.** Area2 Sensitivity

Press or to change the sensitivity of setup motion area in Area2. The motion area is drawn in green.

#### **D-5.** Area3 Sensitivity

Press or to change the sensitivity of setup motion area in Area3. The motion area is drawn in red.

#### E. Mask Setup

H:	sk Setup	
MArea1 Marea2 Marea3	Area Setup Area Setup Area Setup	
	Save	Cancel

# E-1. Area1

Click the "Area1" option to setup the mask area. The color of the mask area is blue.

#### E-2. Area2

Click the "Area2" option to setup the mask area. The color of the mask area is green.

# E-3. Area3

Click the "Area3" option to setup the mask area. The color of the mask area is red.



Save

Press or to select items. Press or to change values. Press SET to see more options.

#### A. HDD Format

Use the checkbox to enable or disable the authority of HDD Format function. If enable this function, the user has to insert password while performing HDD format.

#### **B.** Anonymous User Login

Use the checkbox to enable or disable the authority of anonymous user login. If enable this function, the user does not have to insert the username/ password and can view the live image via IE browser.

#### **C. Password Protection**

Use the checkbox to enable or disable the authority of password protection.

Cancel

#### **D. Keyboard Lock**

Use the checkbox to enable or disable the operation of control bar which is in the right hand side of live view. The control bar can not work when keyboard lock is activated.

#### E. User Management

Among this item, user can setup the user management permission and the user authority management.



#### **E-1.** Permission

Use the mouse to click the checkbox to modify and alter the user authority.

User			admin				
Passwor	d		*****	~			
Passwor	d Confirm	n	*****				
-Networ	k LogIn	₩ RI	EC ON/OF	F 6	Bac	kup	
Play/Event		✓ PTZ			MENU Setup		
Camera Setup		Record Setup		ip (	Alan	m Setup	
Wetwork Setup		Y Di	sk Setup		Syst	tem Setu	
Masking	Channel	s in F	layback	and Ne	etwor	rk:	
CH01	CH02		CH03	CHI	3-4		
CHOS	CH06		CH07	CH	202		

### E-2. Add User

After click Add User button, the setup page will present in the following. The user can distribute the authority and the permission for the new user.

NO. 2	U	ser H	anager	ment		
User			USER	2		
Passwor	nd.					
Passwor	d Confirm	n				
Networ	k LogIn	RE	CON/O	FF	Back	kup
Play/Ev	rent	₩ PT	z		MEN	IU Setup
Camera	Setup	Ree	cord Set	tup	🖓 Alan	m Setup
<b>⊠</b> Networ	k Setup	₩ Dis	k Setup		Syst	tem Setup
Masking	Channel	s in Pl	aybacl	k and I	Networ	rk:
CH01	CH02		CH03	C C	H04	
CH05	CH06		CH07	C C	H08	
CH09						
					Save	Cancel

NETWORK	
IP Address Setup 🚚	
PPPoE Address Setup	
DDNS Setup	
Mail Setup 😅	
FTP Setup	
DHCP Server Setup	
UPNP Port Forwarding Setup	
	Exit

Press or to select items. Press or to change values. Press SET to see more options.

#### A. IP ADDRESS SETUP

Press	or	to setup NVR IP address.
		IP Address Setup
IP Mod	le	Static IP
IP Add	Iress	192.168.1.220
NetMa	sk	255.255.255.0
Gatew	ay	192.168.1.254
DNS1		168.95.1.1
DNS2		168.95.192.1
WebPa	age Port	80
		Save Cancel
1		

# A-1. IP Mode

Press drop down list to change IP mode to STATIC IP or DHCP.

#### A-2. IP Address

Use the virtual keypad to setup the NVR IP ADDRESS.

#### A-3. Network

Use the virtual keypad to change SUBNET MASK.

#### A-4. Gateway

Use the virtual keypad to change Default GATEWAY.

#### A-5. DNS1

Use the virtual keypad to change DNS.

#### A-6. DNS2

Use the virtual keypad to change OTHER DNS.

# A-7. WebPage Port

Use the virtual keypad to change the IE browser port.

#### **B. PPPoE SETUP**

PPPo	E Setup	
PPPoE Setting	Disable	
User Name		
Password		
Password Confirm		
State	IDLE	-
Send Mail After Dialed	Disable	
Subject	NVR is dialed	
	Save	Cancel

#### **B-1. PPPoE Setting**

Press the drop down list to enable or disable PPPoE.

#### **B-2.** User Name

Insert the user name (ADSL account) which provided from local ISP.

#### B-3. Password

Insert the password which provided from local ISP.

### **B-4.** Password Confirm

Insert the password again to confirm the password.

#### **B-5.** State

Present the current status of PPPoE function.

#### **B-6. Send Mail After Dialed**

Click the drop down list to enable or disable the function.

#### **B-7.** Subject

Insert the mail subject when dialed successfully.

#### C. DDNS SETUP

	DDNS Setup
DDNS Enable	•
DDNS Server	dyndns.org
Host Name	
User Name	
Password	
Update interval	1440
State	TOLE
	Save Cancel

#### C-1. DDNS Enable

Click the checkbox to enable or disable DDNS function.

#### C-2. Provider

Click the drop down list to select DDNS provider.

### C-3. Host Name

Insert the registered host name in the selected provider.

#### C-4. User Name

Insert the registered user name in the selected provider.

#### C-5. Password

Insert the registered password in the selected provider.

# C-6. Update Interval

A period of time to update IP address.

#### C-7. State

The state after apply for DDNS.

Updating: Information update. Idle: Stop service. DDNS registered successfully, now log by http://<username>.ddns.camddns.com: Registered successfully. Updating Failed, the name is already registered. Updating Failed, please check your internet connection.

#### **D. MAIL SETUP**

	Mail Setup
Enable	
Mail Server	
SMTP Port	25
User Name	
Password	
Sender's Mail	
Receiver's Mail	
BCC Mail	
Subject	ALARM TRIGGER!

#### **D-1.** Enable

Use the checkbox to enable or disable the Mail Server function.

#### **D-2.** Mail Server

The IP address of Mail Server

#### **D-3. SMTP Port**

The port of SMTP (known as Simple Mail Transfer Protocol). (Default value is 25)

#### **D-4.** User Name

The user name while log in to the mail server.

#### **D-5.** Password

The password while log in to the mail server.

#### **D-6. Sender's Mail**

The sender's account when send the mail via this mail server.

**D-7. Receiver's Mail** 

The receiver's mail address.

# D-8. BCC Mail

The receiver's mail address for Bcc Mail.

# **D-9.** Subject

The subject while sending the mail.

#### E. FTP SETUP

Enable	CALARM CMOTION
FTP Server	
User Name	
Password	
FTP Port	21
Path 📎	/ALARM/
	Save Cancel

#### E-1. Enable

Use the checkbox to enable or disable FTP Server.

#### E-2. FTP Server

The IP address of FTP Server.

#### E-3. User Name

The username while log in to the ftp server.

#### E-4. Password

The password while log in to the ftp server.

### E-5. FTP Port

The port number of file transmission. (Default value is 21)

#### E-6. Path

The ftp path where the user wants to reserve the information.

#### F. DHCP Server Setup

DHCP Server Setup					
Enable					
Start IP Address	192.168.1.1				
End IP Address	192.168.1.254				
Lease Time	4 10 ▶ Day				
Ø					
	Save Cancel				

#### F-1. Enable

Use the checkbox to enable or disable DHCP Server function. When the function is activated, the NVR can be treated as the DHCP server. The NVR will assign or distribute one of the IP address which is according to the setup IP address range (start and end IP Address.) to the connecting IPCAM (setup DHCP function as well).

#### F-2. Start IP Address

Use the virtual keypad to insert the start IP Address of DHCP server.

# F-3. End IP Address

Use the virtual keypad to insert the end IP Address of DHCP server.

#### F-4. Lease Time

Press or to change the lease time of DHCP server.

G. UPNP Port Forwarding Setup



#### G-1. Enable

Use the checkbox to enable or disable UPNP port setup.

### G-2. External HTTP Port

Use the virtual keypad to insert the external http port.

# G-3. External RTSP Port

Use the virtual keypad to insert the external rtsp port.

51	STEM
NVR Name	hnr-09
NVRID	101
Language	English
Date Format	YYYY-MM-DD
Version	L0818-Y1.0.16_D
Firmware Update 🛹	Configure Setup
Time Setup	Daylight Saving Time .
Status Display Setup	Monitor Adjust

Press or to select items. Press or to change values. Press SET to see more options.

#### A. NVR Name

Use the virtual keypad to insert the name of the NVR.

#### **B. NVR ID**

3.6

Use or to setup the NVR ID. The adjustment value is between  $0 \sim 32$ 

#### C. Language

Use the drop down list to change the NVR language. Currently, there are English, Traditional Chinese and Simplified Chinese three options.

#### **D. Date Format**

Use the drop down list to change DATE. There are DD/MM/YYYY, YYYY/MM/DD and MM/DD/YYYY three modes.

#### **E.** Version

The firmware version of the NVR will show in this column.

#### F. Software Update

Click Firmware Update ы	button to perform firmware updating.
Software Update	
Status	
Progress	
Upgrade Firmware	
Exit	

#### G. Configure Setup

Click the checkbox to select which item can be setup by the user. The user can also load the setting to factory default, load the configure from USB and backup configure to USB.

tem:		
Camera Setup	Video Adjust Setup	
Camera Motion Setup	Record Setup	
Alarm Setup	Vetwork Setup	
Author Setup		
System Setup	0	
Load Default		
Load configure from	USB	
Backup configure to	USB	
		Exit

#### **H.** Time Setup

	Time	Setup	
1 2 8 9 15 1	ATTUE WIE0THU FRIEN           2         3         4         5         6         7           2         10         11         12         13         14           6         17         18         19         20         21           3         24         25         26         27         28	2011/05/2 18:36:15 Time (18): (36): (9 SYNC	
NTP Se Enable	and the second	Time Zome	
Enable	NTP Server 198,123,30,132	GMT-12:00	-
	10011201001101		SYNC
		Save	Cancel

Click button within "Time" block can adjust and synchronize the time of the NVR as the system time of the PC. Moreover, if the user clicks the enable checkbox and button within the NTP Setup block, the time of the NVR will synchronize as the NTP Server.

#### I. Day Light Saving Time

Start Month	Week	Day	Hours
JANUARY	NO.1	SUNDAY	00:00
End Month FEBRUARY	Week NO.1	SUNDAY	Hours 00:00
Offset +0:30		0	

After enable the daylight saving time function, the user can use the drop down list to select the start time and the end time of daylight saving time. After complete the

setting, please click **Save** button to reserve the setting.

#### J. Status Display Setup

Use the mouse to click the options, which is including "Date and Time Display", "Record Information Display" and "Camera Title Display".

	<b>Display Set</b>	up	
isplay Item:			
Camera IP Disol	tion Display play		
Camera IP Displ	-		
	0		

#### K. Monitor Adjust

User can use or to adjust the monitor related setting within this page, there are "Brightness", "Contrast", "Hue" and "Saturation" four options can be set.

	Monitor Adjust				
Brightness			•	50	•
Contrast			4	50	•
Hue		-	•	50	
Saturation			4	50	•
			De	fau	It
		N			
		Save			Cancel



Press or to select items. Press or to change values. Press SET to see more options.

#### A. Post-Alarm Record Time

Press or to switch the recording time of post-alarm. The adjusting value is from 5~99 sec.

#### **B. Record Mode**

3.7

Use the drop down list to switch the recording mode. There are manual, schedule and alarm trigger three varieties of mode.

#### C. Schedule Setup

Click the "Schedule Setup" button to set the schedule recording time.



DI	SK	
verwrite Mode	OFF	
lard Disk Full Warning	20%	
Auto Deletion	ON	
Reserve Day	1 1	
Storage Information		
Format HDD		0

Pressorto select items.Pressorto change values.PressSET to see more options.

#### A. Overwrite Mode

3.8

Click the drop down list to enable or disable overwrite function.

#### **B. Hard Disk Full Warning**

Click the drop down list to change value to 20/15/10 or 5% with non-overwrite mode. When LEFT RATIO is below the setting, it will enable AUDIBLE ALARM (If AUDIBLE ALARM of BUZZER of ALARM SETUP is ON).

#### C. Auto Deletion

Click the drop down list to enable or disable auto deletion function.

#### **D.** Reserve Day

Use or to setup the reserve day. While enable auto deletion function, the data will be removed when reserve day is exceed the setting. The value can be setup between  $1 \sim 30$  days

#### **E. Storage Information**

The information of storage device will present in this page.

DISK	CAPACITY	LEFT	TEMP.	
NON				
NON				
	8			
B Dev	ice List:			
		LEFT	]	
	ice List:	LEFT	]	

#### F. Format HDD

Insert the user name and password while performing HDD format function.



#### A. Alarm Trigger Setup

Alarm Trig	ger Setup	
Alarm Auto Switch	Disable	
Video Loss Detection	Enable	
Ext.Alarm Detection	Enable	
Ext.Alarm Mode	N.O	
	Save	Cancel

#### A-1. Alarm Auto Switch

Use the drop down list to switch the alarm auto switch. When the alarm is triggered, the screen will switch to full screen, split screen (16CH split screen) or disable.

A-2. Video Loss Detection

Use the drop down list to switch the video loss detection. When the video loss is detected, the alarm will trigger.

**B.** Alarm Output Setup

Alarm Output	Setup		
Buzzer Time			
Ext. Alarm Buzzer Time:	•	5	> Sec
Video Loss Buzzer Time:	•	5	> Sec
Relay Time			
Ext. Alarm Relay Time:	•	5	> Sec
Video Loss Relay Time:	•	5	> Sec
	Save		Cancel

This control item separates into two parts, "Buzzer Time" and "Relay Time". User can press or to switch video loss buzzer time in "Buzzer Time" option. The adjustment value is from 5 to 99 seconds. Moreover, among "Relay Time" option, the user can press or to switch the video loss relay time. The adjustment value is from 5 to 99 seconds as well.

# C. Alarm Event Setup



There are seven sort of events can be selected. When the selected items are happened and triggered, the alarm will be activated.

# 4 NVR PLAYBACK



## Note: Under playback mode, it will output sound when switch to full screen mode.



В.

C.

E.

# **RECORD BACKUP**

With playback mode, press this button to backup record (.264 video backup) and press this button again to finish backup. For performing the single image backup (.Y42 single image backup), press first and then click this button to backup the necessary image.



# **AUDIO CONTROL**

Press this button to turn the audio on or off



# **DISPLAY CONTROL**

Within playback mode, use display control to switch the camera channel.

# D. RECORD AND PLAYBACK CONTROL

Same as front panel controller and remote controller.



# DIGITAL ZOOM

In the live full screen mode, left-click the button of the mouse to pull a range to zoom in or zoom out the image. User can right-click the button of the mouse to disable this function. (NOTE: Using the mouse to operate digital zoom can zoom in to max. 16 times.) Moreover, user can also use ZOOM key on the front panel to perform this function. (First, click ZOOM Key and then click key to select zoom in or zoom out position. Finally, click ENTER key to complete the setting. Moreover, click ZOOM Key again can disable digital zoom function. Using the panel key to perform zoom in function is fixed at 2 times.)

EXIT	em Log	Sys	Backup	earch	Event S	arch	me Sea



Select the start of playback time and then click **Start Play** button to playback the recorded data. If the time contains the recorded data, the time point within this page will become red.



#### 4.2

#### **EVENT SEARCH**

After entry to the event search page, user can click the event log item which shown on the list to start playback. Moreover, the user could click **Event Filter** button to select the specific event option to filter the event option that shown on the list.

NO.	Time	CH	Туре	HDD
001	2011/05/30 18:22:00		PWR OFF	HDO1
002	2011/05/30 18:21:50		PWRON	HODL
003	2011/05/30 18:13:27	02	NOTION	HOD1
004	2011/05/30 18:13:14	02	MOTION	HDD1
005	2011/05/30 18:12:21	02	MOTION	HODI
006	2011/05/30 18:11:39	02	MOTION	HOD1
007	2011/05/30 17:57:11	02	MOTION	HODI
800	2011/05/30 17:5531	02	HOTION	HDD1
009	2011/05/30 17:40:16	02	MOTION	HOD1
010	2011/05/30 17:40:06	02	HOTION	HOD1
	1			
	nt Filter Pac	ie 4	1 .	

Eve	nt Filter		
Event Type			
Power On	Power Off		
Video Loss	Motion		
Record	Stop Record		
Ext. Alarm			
Event Channel			
P CHO1 P CHO2 HDD NO. HDD 1	F CH03	F CH04	
	Save	Cancel	


After click the backup button, the user could use drop down list to select the storage device, USB/ DVD-RW (08CH/ 16CH models) and the backup time selection mode,

Time Mode/ Hours Mode. After that, click **Backup Now** button to start backup.

#### TIME MODE

Click or	to select the start and end backu	p time.
REC Start Time REC End Time Device:	Backup 2011/05/10 16:12:54 2011/05/30 18:22:00 NO Free Size:	
	11)/ 45 )/ 430 ) 418 ): 422 ): 40 11)/ 45 )/ 430 ) 418 ): 422 ): 40	
Backup Size: Select Channel	СНО1 ССНО2 ССНО3 ССНО4	
Check Devi Backup Now		

Moreover, among "Select Channel" option, use the mouse to select the channel which is going to backup.

	B	ackup		
REC Start Time	201	1/05/10 1	16:12:54	
REC End Time	201	1/05/30 1	8:22:00	
Device:	NO		Free Size:	
Start Time: 420	111/45	>/ 430	418):	422 ): 40
End Time: 420: Backup Size:	11)/ 45	<b>)/ 430</b>	418):	422 ): 4 0
Select Channel	<mark>₩ CH01</mark>	₩ СН02	IF CH03	CH04
Check Devi	ce			



System log is reserved all of the system record. The maximum storage quantity is 2000. Click **Log Filter** button to perform the further data filter action. After complete the specific item selection, please click **Save** button to reserve the setting. While return to the system log page, it will only reveal the specific selection items.

NO.	Time	Event
001	2011/05/30 17:42:57	Remote login by admin
002	2011/05/30 17:25:03	Remote login by admin
003	2011/05/30 17:22:20	Remote login by admin
004	2011/05/30 17:20:13	Remote login by admin
005	2011/05/30 17:13:55	Remote login by admin
005	2011/05/30 17:12:28	Remote login by admin
007	2011/05/30 17:11:31	Remote login by admin
003	2011/05/30 16:27:47	Remote login by admin
007	2011/05/30 14:27:44	Remote login by admin
010	2011/05/30 16:27:40	Remote login by admin
Pag	ie (	(1)

After click Log Fi	ilter 🛹 button
•	og Filter
Console Login	Remote Login
Add user	Remove user
Hard Disk Format	Hard Disk Full Warning
V Load Default	E Load configure from USB
PPPoE IP	DHCP IP
ø	
	Save Cancel

## 5 BACKUP PLAYBACK

#### SYSTEM REQUIREMENT

CPU: Intel Celeron 1.6G MEMORY: 256MB. VGA: 32MB VGA RESOLUTION: 1024 x 768. OS: Windows XP / 2000

#### SUGGESTED REQUIREMENT

CPU:Intel P4 2.8G MEMORY:512MB or above VGA:64MB or above VGA RESOLUTION:1024 x 768 OS: Windows XP / 2000 NETWORK BANDWIDTH: Upload Speed is 256kbps or above

## 5.1 MAIN SCREEN SETTING



#### **B. HDD PLAY**

Play about all the data from the Hard disk of NVR or perform the specific Time and Event Search to play.

Note: Remove the NVR HDD and connect to the PC first. Then, use NVR

player (K6Viewer.exe) to play the data of HDD. NVR player (K6Viewer.exe) can be attained from the attached CD or via the Internet; moreover, while performing USB backup and DVD-RW backup, the software will be built automatically as well.



K6¥iewer						
Fie	About					1
	104408 1023281 SH2 102701 00.00000 1001/01 00.00000	L	ch 3 2010/04/08 10/23/26	214 2010/04/08 10:23:26 2010/04/08 10:23:26 216 0000/07/01 00:00:00 216 0000/07/01 00:00:00	06 59 17 07 21 57 07 41 30 08 52 39 09 15 20 09 38 00 10 00 42 + 15	V I D E O T I M E
No	_Video		No_Video	No_Video	+ 16 + 17 + 18 + 19 + 20 + 21 + 22 + 23 + 23 + 24 + 26	L I S T
No	_Video	No_Video	No_Video	No_Video	FullScreen PlayAudio	
Start: 2010/04/	/08_10:23:22			End: 2010/04/15_14:46:15		
						-

#### **B-1. TIME SEARCH**

Insert search Date and Time and then click Time Search to play all the searched film.



## **B-2. EVENT SEARCH**

It will display all the events which are reserved within the NVR HDD after

press Event Search (Shown in the following) and double click left button of mouse to trigger event.

e Even	÷			1
Num	Channel	Time	Туре	18
1	255	2008/02/25_09.53.29	POWER ON	- 1
2	255	2008/02/25_09.53.38	POWER ON	
3	255	2008/02/25_09.54:56	POWER ON	
4	255	2008/02/25_09.56.09	POWER ON	
5	255	2008/02/25_09:58:05	POWER ON	
5	255	2008/02/25_10.02.45	POWER ON	
7	255	2008/02/25_10:13:05	POWER ON	
3	255	2008/02/25_10:15:33	POWER ON	
a	255	2008/02/25_10:35:06	POWER ON	
10	255	2008/02/25_10:37:42	POWER ON	
11	255	2008/02/25_10:47:21	POWER ON	
12	255	2008/02/25_10:49:25	POWER ON	
13	265	2008/02/25_10.51:11	POWER ON	
14	255	2008/02/25_10:54:16	POWER ON	
15	255	2008/02/25_10:58:08	POWER ON	
16	255	2008/02/25_11:00.02	POWER ON	
17	255	2003/02/25_11:04:15	POWER ON	
18	255	2008/02/25_11:05:35	POWER ON	
19	255	2008/02/26 10:28:44	POWER ON	

## **B-3. HDD COPY**

Copied and reserved the NVR HDD data to other data storage device.



Then, select the "StartTime" and "EndTime".

StartTime	2008/ 6/23	12 : 🜆 : 52	÷
EndTime	2008/ 6/23	÷ 14:37:59	÷
Save	Stop		

After that, press Save button to	choose the storage destination and press
Save to start reserving.	Save As         Image: Control of the state of the
StarTime         2008/ 6/23         12: 12: 10: 52         4           Endline         2008/ 6/23         14: 37: 59         4	Documents Dealing Dea
Save Stop	Ng Localer 11 140215.204
	My Helvolk File none M0000E19006669282

Finally, the complete information will pop-up while finished storage.

Róviewer	
Copy data com	.plete!!
OK	

(K6 Viewer.exe) can play not only NVR H.D.D (\*.idx). but also the \*.264 and \*.Y42 files which are reserved within the data storage devices. (i.e. CD/DVD disc, pen drive and the PC H.D.D which the data backup from NVR H.D.D)

C. File (\*.264) Play

File	About				
Ch 1 0000,	/01/01_08:00:00	Ch 2 0000/01/01 00:00:00	Ch 3 0000/01/01 00:00:00	Ch 4 0000/01/01 00:00:00	File(*.264)
SH5 10000	<u>/01/01_00:00:00</u>	EN 6 (0000/01/01 00:00:00)	Ch7) (0000/01/01 00:00:00)	[Ch8] [0000/01/01 00:00:00]	File Select  Dpen  PtygBack  H I I I I I I I I I I I I I I I I I I
2h 9   0000	/01/01 00:00:00	Eh 10 0000/01/01 00:00:00 )	<mark>Ch 11] 0000/01/01_00:00:00]</mark>	Ch 12 0000/01/01 00:00:00	CH01 ♥ Diplay all trames Beckup CH01 ♥ Save AM SnapShot Cory Search 64 772010 ↔ 115:57:55 ↔
Ch 13 0000	/01/01_00:00:00_	Ch 14 0000/01/01 00.00.00	<mark>(2h 15) 0000/01/01 00:00:00</mark>	[Ch 16][0000/01/01:00:00]	Time Search Event Search Full Screen
					1 4 9 16 Lenguages English 💌

D. File (\*.Y42) Play



## 5.2 USB & LOCAL BACKUP FILE PLAYBACK

A. Plug the USB disk into PC or check the local backup folder.

If using USB mode, please double click the player.exe from the pop-up diagram. (As below)



**B.** The play backup program would appear on the screen, select "Open".

K6Viewer		
File About		
Ch 1 0000/01/01 00:00:00	Ch 2 [0000/01/01_00:00:00] [Ch 3 [0000/01/01_00:00:00] [Ch 4 [0000/01/01_00:00:00]	File(*.idx)
EhS 0000/01/01-00.0000		File Select
(Ch. 9) [0000/01/01_00:00:00]	Ch 10 0000/01/01 00:00:00 [Ch 11 00:00/01/01 00:00:00 ] [Ch 12 0000/01/01 00:00:00 ]	Backup CHOI V Save AVI SnapShot Copy Search
<mark>(55.13) 0000/01/01-00:00:00)</mark>	Ch 14 0000/01/01 00.00 00 [Ch 15] 0000/01/01 00.00.00] [Ch 16] 0000/01/01 00.00.00]	6/ 7/2010 🔹 18:33 🔹 Time Search Event Search Full Screen 🔽 Play Audio
		1 4 9 16 enouses English Close

**C.** Open the USB disk located driver letter. (Example E:) or the local backup folder, and pick the file to playback.

The backup file will named as the time when backup, as like: 170319.264 will be 17:03:19

Open		? 🗙
Look in:	🖙 USB DISK (E:) 💽 🗢 🔁 👘 🕎 -	
My Recent Documents Desktop	■ 170319,264 ■ 171553264 ■ 174624.264	
My Documents My Computer		
My Network Places		<u>O</u> pen Cancel

**D.** Press the play icon to play the video or still picture.

K6¥iewer					
File	About				
Ch 1 0000,	/01/01 00:00:00	Ch 2 0000/01/01 00:00:00	0 Ch 3 0000/01/01 00:00:00	Ch 4 0000/01/01 00:00:00	File(*.264)
Ch 5 0000	<u>/01/01_00:00:00</u>	[2H 6] [0000/01/01 00-00.00	a) <mark>(24 7) (0000,01,01 00 00 00)</mark>	[24.8] [0000y01/01_00.00.00]	File Select
Ch 9 0000	/01/01=00:00:00	<mark>(2710)</mark> 0000/01/01-00-00-00	0] <mark>(5611)(0000/01/01-00/00/00</mark> )	[Ch 12][0000/01/01_00:00:00]	© Display al frames Backup CHOT ▼ Save AVI SnapShot Cosy Search 67 72010 ☆ 19:10:08 ↔
Ch 13 0000	<u>701701_00:00:00</u>	Ch 14 0000/01/01 00:00.00	2] <mark>(24.15) 0000/01/01 00.00.00</mark>	[Ch 16] 0000/01/01 00:00:00]	Time Search Event Search Full Screen
					1 4 3 16 Lenguage English T

## 5.3 BACKUP FILE TO AVI

A. Please select specific channel to backup.

6Viewer					
File	About				
Ch 1 000	10/01/01 00:00:00	Ch 2 0000/01/01 00:00:00	Ch 3 0000/01/01 00:00:00	Ch 4 0000/01/01 00:00:00	File(*.264)
					Open
Ch 5 000	00/01/01 00:00:00	Ch 6 0000/01/01 00:00:00	Ch 7 0000/01/01 00:00:00	Ch 8 0000/01/01 00:00:00	
					CH01 Save AVI SnapShot
CH 9 000	10/01/01 00:00 00 j		Ch 11 0000/01/01 00:00:00		Copy Search 6/ 7/2010 19:10:08
Ch 13  000	10/01/01 00:00:00	Ch 14 0000/01/01 00:00:00	Ch 15 0000/01/01 00:00:00	Ch 16 0000/01/01 00:00:00	Time Search Event Search
					Full Screen Play Audio
					1 4 9 16
-					Language English 💌

**B.** During video playback mode please press AVI bottom Save AVI to start.

**C.** Make up a filename and path than press **Save** bottom to start AVI backup.

**D.** Press AVI bottom **StopAVI** to finish backup.

## 6 NETWORK VIEWING & PLAYBACK

#### SYSTEM REQUIREMENT

CPU: Intel Celeron 1.6G MEMORY: 256MB. VGA: 32MB VGA RESOLUTION: 1024 x 768. OS: Windows XP / 2000

#### SUGGESTED REQUIREMENT

CPU: Intel P4 2.8G MEMORY:512MB or above VGA:64MB or above VGA RESOLUTION:1024 x 768 OS: Windows XP / 2000 NETWORK BANDWIDTH: Upload Speed is 256kbps or above

## 6.1 IP ADDRESS SETUP ON PC SITE

Install cameras inside in LAN or use network cable to connect with PC. This is for IPInstallerEng.exe to set up IP address of cameras. If OS is Windows XP SP2 or above, the following Windows Security Alert will popup. Then, please click on <u>Unblock</u>.



Then, IPInstallerEng.exe will popup: NVR default IP address is 192.168.1.220

Server Name	IP Address	^		· 310	auro	C DHC	r.
wenhao	192.168.001.239		Name		D	VR	
Web Server	192.168.001.225			-	61.0	22/3	
DVR	192.168.001.220		IP	192	168	1	220
IP-Camera	192.168.003.233		Netmask	255	255	255	0
IP-Camera	192.168.001.218		neemosk	200	200	200	
SHOWROOM	192.168.001.155	-	Gateway	192	168	1	254
IP_Camera_rince	192.168.001.160		DNS 1	168	95	1	
IP_Camera (POE)	192.168.001.226		DNS 1	1 198	95	1	1
IP-Camera	192.168.003.248		DNS 2	168	95	192	1
IP-Camera	192.168.003.246					and the second	
Web_Server	192.168.003.222		Port1		8	0	
Web_Server	192.168.003.221		MAC	0.0.	02.00	:10:6B	. DO
SHOWROOM	192.168.001.158	Y	nho	J 00.	UF.UD	.10.00	. DZ
	Search Devic	e				Subr	nit
o Change Device Name, .Select the device on the .Change network parame .Press Submit button. .Press "Search Device .Double click the device	eleft side. Ster on the right side. To re-search again.	y:				Ex	

**NOTE:** Please input correct network parameters without blank spaces.

On Device Lists, it lists all servers. Click on one server and then its IP setting will show on the right side. After editing the parameters and clicking on Submit, the following dialogue box will popup. And, it will reboot the device with new parameters.

IPInstallerEng 🛛 🛛 🔀
Device Rebooting,Please wait
ОК

#### 6.2 OPTIONAL MICROSOFT INTERNET EXPLORER SETUP OPTION 1: DISABLE ACTIVEX WARNING

- A. IE à Tools à Internet Options à Security à Custom Level à Security Settings à Download unsigned ActiveX controls à Enable or Prompt (recommend).
- B. IE à Tools à Internet Options à Security à Custom Level à Security Settings à Initialize and script ActiveX controls not marked as safe à Enable or Prompt (recommend).



Above three options are all based on select as the prompt.

As indicated in the dialogue box. Please select "YES."

Internet	Explorer
£	An ActiveX control on this page might be unsafe to interact with other parts of the page. Do you want to allow this interaction?
	Yes No

OPTION 2: ADD TO TRUSTED SITES IE à Tools à Internet Options à Security à Trusted sites à Sites

Internet Options 🛛 🖓 🔀	Trusted sites ? 🔀
General Security Privacy Content Connections Programs Advanced Select a Web content zone to specify its security settings.	You can add and remove Web sites from this zone. All Web sites in this zone will use the zone's security settings. Add this web site to the zone:
Trusted sites This zone contains Web sites that you trust not to damage your computer or da. Security level for this zone	Add Web sites:
<b>Custom</b> Custom settings. - To change the settings, click Custom Level. - To use the recommended settings, click Default Level.	
Custom Level Default Level	Require server verification (https:) for all sites of this zone     OK Cancel

## 6.3 LOGIN

## A. INSTALL ACTIVEX



## **B. START INSTALL ACTIVEX**

🗿 DVR - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	A.
🕜 Back 🔹 🕥 👻 😰 🏠 🔎 Search 👷 Favorites  🤣 🥪 🍇	
Address 🗿 http://192.168.1.236/	🔽 🄁 Go 🛛 Links 🎽
🕲 To help protect your service. Interest To classes stopped this site from installing an ActiveX control on your computer. Click here for options	
Instal ActiveX Control	
Information Bar Help	

## C. ACCOUNT & PASSWORD LOGIN

After IP setup and connect to network or LAN, type IP address on IE Browser directly. The following User name & Password Login window will popup.

Connect to 192.1	68.1.212
	G
IP Camera	
User name:	🖸 admin 💌
Password:	•••••
	Remember my password
	OK Cancel

Default user name: admin Default password: admin

#### 6.4 REMOTE CONTROL

## LIVE VIEWING



## A. NVR Configuration

Get into NVR network menu.

## **B.** PTZ Control

PTZ control function panel



Spee	ed: 3 💌
Pres	et Pointer: 1 💌 Go Save
	Up to 32 preset poin for operation

## **C.** SYSTEM TIME

Live viewing mode: The current live viewing time.

# **D. SCREEN FORMAT**

Switch screen format and click twice to switch different channels with full screen.

- **E. Full Screen.** Click again to return.
- **F. REC.** Videos are saved as AVI file.
- G. PLAY Playback
- H. **H** Time-Point Backup

Click and playback window will popup

## PLAYBACK by TIME SEARCH & EVENT SEARCH



#### A. HDD Select

User can select HDD1 or HDD2 for playback

#### **B.** Playback Time

User can select the time then press "Time Search" for playback.

#### C. Time Search

User can select the time then press "Time Search" for playback.

## **D. Event Search**

User can select event item by pressing "Event Search" for playback.

Click **II** to operate Time-Point backup.

#### **TIME-POINT BACKUP**

First, select Start and End backup time which have to among the Record Time.

Record Time:	2008/05/23 11:32:58 ~ 2008/05/26 16:20:08
Start End	2008/ 5/26     11:32:58       2008/ 5/26     12:00:08
Save	Stop

Then, click Save button to select the position on PC where the user is going to backup the data. After that, press OK button to start the backup.

Download	
Record Time:         2008/05/23 11:32:58 ~ 2008/05           Start         2008/ 5/26 ·         11:32:5           End         2008/ 5/26 ·         11:32:5	58
Save	BMP Polder

Finally, double-click the left button of the mouse to open the saved backup file. The backup file

will named as the time when start to backup, such as, (20080526113258.264) will be 2008/05/26 11:32:58.



## **OTHER FUNCTIONS**



## User can use other functions by clicking the left of mouse

#### A. Snapshot:

User can save any single picture from image.

#### **B.** Performance:

User can select image quality (high, medium & low).

#### C. Use Overlay:

User can use Overlay function.

#### **D. Play audio:**

User can play audio function by channel.

Note: remote user can receive audio from NVR & the audio will be saved with image when processing video backup.

#### 6.5 CONFIGURE

#### A. System - System Information

System Information					
Server Informatic	n				
Server Name:	YDS-09NA				
MAC Address:	00:0f:0d:00:12:3a				
NTP Setting					
Time zone:	GMT-12:00				
NTP Server:	198.123.30.132				
		Apply			

#### **A-1 SYSTEM INFORMATION**

SERVER NAME: This name will show on the IP Installer.

#### A-2 NTP Setting

NTP SERVER: Revise the time of NVR via different NTP Server.

Note: Time zone and Interval cannot adjust in here (User can adjust both in DATE and TIME SETUP option of NVR Menu).

## **B. SYSTEM – USER MANAGEMENT**

	User Manag	ement	
Authority Setting			
HDD Format Password Check	OEnable	💿 Disable	
Anonymous Login	🔿 Enable	💿 Disable	
Password Protection	🔘 Enable	💿 Disable	Apply
User List			
Username	Modify	Remove (	Add User
admin	Edit		

User Management provides 3 levels of limits of authority: Administrator (the highest), User, and Guest.

- Administrator: Possessing the highest level of authority to operate full functions within network.
- User: Having Live Image and Video Playback authority. Moreover, PTZ controlled is included as well.

Guest: Only have Live Image authority.

Default administrator account: Username: admin Password: admin

#### **B-1 ANONYMOUS USER LOGIN:**

YES: Accept anonymous user login without password as guest login.

NO: Anonymous login unacceptable.

## **B-2 USER MANAGEMENT:**

Add: Input Username and Password and then click on Add/Set to save.

Modify: Click on selected User name on User List and the following window

will popup. After inputting Password and Confirm Password, click on **OK**.

**Remove:** Click on selected User name on the user list and click on **Remove**.

	User :	Setup	
Username: Password: Confirm:	admin		ОК
Confirm: 〕完成		(1) 網際約	

#### C. SYSTEM / SYSTEM UPDATE

Click on the "Browse" button to select the latest firmware and then press "Upgrade" button to upgrade the firmware.

	System Update	
Firmware Upgrade		
Firmware Version:	Y1.1.09 L0120	
New Firmware:		瀏覽
		Upgrade

#### **D. NETWORK – IP SETTING**

	IP Setting	
IP Assignment		
💿 Static		
IP Address:	192.168.22.56	
Subnet Mask:	255.255.255.0	
Gateway:	192.168.22.254	
DNS 1:	168.95.1.1	
DNS 2:	168.192.95.1	
Port Assignment		
Web Page Port:	80	
		Apply

## **D-1 IP ASSIGNMENT**

**DHCP:** In Dynamic Host Configuration Protocol (DHCP) mode, DHCP server will get setting done automatically.

**STATIC IP:** Please input IP address, Subnet Mask, and Gateway based on network environment.

#### **D-2 PORT ASSIGNEMENT**

With IP Share (Router), the following Ports needed to be adjusted in case of conflict.

## E. NETWORK – PPPoE

	PPP₀E	
PPPoE Setting		
O Enabled 🛛 🔇	Oisabled	
Username:		
Password:		
Send mail after di	aled	
Enabled		
Subject:	DVR is dialed	Apply

## **E-1 PPPoE SETTING**

Click on Enabled to enable ADSL dial function. Username: Username for ADSL account. Password: Password for ADSL account. After dialed successfully, new IP address will appear.

#### **E-2 SEND MAIL AFTER DIALED**

Click on Enabled to enable SEND MAIL AFTER DIALED function.

#### **E-3 SUBJECT**

Mail subject.

#### F. NETWORK / DDNS SETTING

	DDì	NS .	
DDNS Setting			
🔿 Enabled	💿 Disabled		
Provider:	dyndns.org	*	
Hostname:			
Username:			
Password:			
Schedule Update:	1440	Minutes	
State			
IDLE.			<u>_</u>
			~
			Apply

Note:

- Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
- Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

Click on Enabled to enable DDNS function.

#### F-1 DYNDNS.ORG

	DDNS		
DDNS Setting			
💿 Enabled 🛛 🔘	Disabled		
Provider:	dyndns.org	×	
Hostname:		]	
Username:		]	
Password:		]	
Schedule Update:	0	Minutes	
State			
			<u> </u>
			~
			Apply

#### **DDNS SETTING - DYNDNS.ORG**

PROVIDER: Select dyndns.org HOSTNAME: The registered hostname in DYNDNS.ORG. USERNAME: The registered username in DYNDNS.ORG. PASSWORD: The registered password in DYNDNS.ORG. SCHEDULE UPDATE: A period of time to update IP address.

#### STATE

- 1. Updating: Information update.
- 2. Idle: Stop service.
- 3. DDNS registered successfully, now log by http://<username>.ddns.camddns.com: Registered successfully.
- 4. Updating Failed, the name is already registered.
- 5. Updating Failed, please check your internet connection.

## F-2 DDNS.CAMNNDS.COM

	DD	NS
DDNS Setting		
🔘 Enabled 🛛 💿	Disabled	
Provider:	ddns.camdd	ns.com ⊻
Username:		
Schedule Update:	5	Minutes
State		
ldle		A.
		N
		Apply

Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.

#### DDNS SETTING – DDNS.CAMDDNS.COM

PROVIDER: Select ddns.camddns.com USERNAME: The registered username in DDNS.CAMDDNS.COM. SCHEDULE UPDATE: A period of time to update IP address.

#### STATE

- 1. Updating: Information update.
- 2. Idle: Stop service.
- 3. DDNS registered successfully, now log by http://<username>.ddns.camddns.com: Registered successfully.
- 4. Updating Failed, the name is already registered.
- 5. Updating Failed, please check your internet connection.

#### **DDNS Setting Steps:**

Press 1 "ENABLE" option to enable DDNS function and select 2

"ddns.camddns.com" of the provider drop down list which is suggested to use. In

the following, insert 3 the username which the user wants to apply

(i.e. NVR\_GODDNS in here). After that, click 4 "Apply" button to apply a

DDNS domain name.

Enabled	Disabled	
Provider: 2.	ddns.camddns.cor	n 👻
Username: 3.	DVR_GODDNS	
Schedule Update:	60	Minutes
tate		
Updating		4

Finally, the NVR domain name 5 (http://NVR\_GODDNS.ddns.camddns.com) will be shown on the state block.

💿 Enabled 🛛 🔿	Disabled	
Provider:	ddns.camddns.co	m 💌
Username:	DVR_GODDNS	
Schedule Update:	60	Minutes
ate		
http://DVR_GODDN	S.ddns.camddns.co	m

- **NOTE:** 1. If the user selects another provider which is ddns2.ydsNVR.com, all of the setting steps are the same with ddns.camddns.com setting.
  - 2. However, if dyndns.org provider is selected, please go to <u>www.dyndns.org</u> website to register the account first. The user has to fill in the username, password and hostname for applying the account. After the user applied the account successfully, the dyndns.org will give the user a complete DDNS domain name.
  - 3. If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.

#### G. NETWORK / Mail & FTP

Click on "Motion" or "Alarm" option to enable Mail Setting and FTP Setting function.

	Mail & FTP
Mail Setting: 🗌 Mot	ion 🗌 Alarm
Mail Server:	
SMTP Port:	25
Username:	
Password:	
Sender's Mail:	
Receiver's Mail:	
Bcc Mail:	
Event Subject:	
FTP Setting: 🗌 Mot	ion 🗌 Alarm
FTP Server:	
Username:	
Password:	
Port:	21
Path:	
	Apply

**Mail Server:** The IP address of Mail Server (i.e. mail.huntelec.com.tw). **SMTP Port:** The port of SMTP (known as Simple Mail Transfer Protocol). (Default value is 25)

**Username:** The username while log in to the mail server.

**Password:** The password while log in to the mail server.

Sender's Mail: The sender's account when send the mail via this mail server.

Receiver's Mail: The receiver's mail address.

Bcc Mail: The receiver's mail address for Bcc Mail.

Event Subject: The subject of this mail. (Default value is ALARM MAIL)

FTP Server: The IP address of FTP Server.Username: The username while log in to the ftp server.Password: The password while log in to the ftp server.Port: The port number of file transmission. (Default value is 21)Path: The ftp path where the user wants to reserve the information.

Finally, click on Apply button to reserve the setting.

## H. OTHERS / Player Downloaded

User can click "Run" button to download the player to local PC.

File Download - Security Warning	×
Do you want to run or save this file?	
Name: K6Viewex.exe Type: Application From: 192.168.1.233 Run Save Cance	
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, o run or save this software. What's the risk?	lo not

## I.

**OTHERS/ NVR Setting** NVR setting can be changed via the Internet.

Systen	n Network Others		
	DVR Setting		
	CHUI		
	CAMERA RECORD ALARM DISK SYSTEM		SAVE
	CAMERA 1	••	
	CAMERA SETUP	SET	
	MOTION	SET	
	MASK SETUP	SET	
	SPEEDDOME SETUP	SET	

# APPENDIX A: RECORDING TIME LAPSE (HOURS)

	2TB	UNIT: Hours		
MAGE QUALITY (Mbps)	LOW (025M)	MED UM (0.5M)	STANDARD (1M)	H GH (1.5M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	960	480	240	160
	4 <b>T</b> B	UN IT: Hours		
MAGE QUAL ITY (Mbps)	LOW (025M)	MEDIUM (0.5M)	STANDARD (1M)	HIGH (1.5M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	1920	960	480	320
	бТВ	UN IT: Hours		
MAGE QUAL ITY (Mbps)	LOW (025M)	MED UM (0.5M)	STANDARD (1M)	HIGH (15M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	2880	1440	720	480
	8TB	UN IT : Hours		
MAGE QUALITY (Mibps)	LOW (0.25M)	MEDIUM (0.5M)	STANDARD (1M)	HIGH (15M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	3840	1920	960	640

\* The value is for reference only

#### B rand Model Capacity others SEAGATE 7200 10 STM3250820AS 250 GB ST3250310SV 250GB SV35.3 ST3400620AS 7200 10 400 GB ST3500320SV 500GB SV35.3 ST3500320AS 500GB 7200 11 ST3500418AS 500GB 7200 12 ST3750640AS 750 GB 7200 10 ST3750330AS 750 GB 7200 11 ST31000333AS 1TB 7200 11 ST31000340AS 7200 11 1TB ST31000340NS 1TB Barracuda ES.2 ST31000340SV 1TB SV35.3 ST31500341AS 1.5TB 7200 11 WD WD1600AAJS 160 GB 7200 CB WD2500AAKS 250 GB 7200 CB WD2500AVVS 250 GB 7200 GP WD5000AACS 500 GB 7200 GP 500 GB 7200 GP WD5000AVVS WD5000AAKS 500GB 7200 CB WD6400AAKS 640 GB 7200 BLUE WD6400AVVS 640 GB 7200 GP WD7500AACS 750GB 7200 GP 7200 GP WD7500AVVS 750GB 7200 GP WD10EACS 1TB WD10EADS 1TB Caviar Green WD10EVDS 1TB Green Power 7200 GP WD10EVVS 1TB WD15EADS 1.5TB 7200 GP 7200 GP WD15EARS 1.5TB 7200 GP WD20EADS 2.0TB HITACHI HDS721616PLA380 160 GB 7200 HDT725025VLA380 250 GB 7200 HDT725032VLA360 320 GB 7200 HDP725050GLA360 500 GB 7200 HCP725050GLA380 500GB 7200 HDT721010SLA360 1TB 7200

#### **APPENDIX B: HDD COMPATIBLE TABLE**

\* The compatible table is for reference only

#### **ERROR MESSAGE ERROR STATUS & REASON** NOTE DISK ACCESS ERROR! H.D.D. Data structure Un-normal. Data does not record into NVR or bad sector on NVR H.D.D. Please install another H.D.D. and perform the record again. **UPDATE FILE ERROR!** Please re-download the update file and update again. FIRMWARE UPGRADE Please reboot the NVR and upgrade the firmware. Please FAILED send the NVR back to repair when NVR is disability. MEDIA ACCESS FAIL! The USB file format is incorrect (Please format the pen drive to FAT32) or Pen Drive is setup to ONLY READ mode (Please annul ONLY READ mode) when reserve the data by using Pen Drive. The data cannot be burn into CD/DVD disc. Please change another CD/DVD disc and backup the file in CD/DVD disc storage. NO FILE! There is no upgrade file within Pen Drive or the name of upgrade file does not correspond with NVR format. Please adjust the upgrade file name based on the following information. 16CH -> UpdateR.bin 08CH -> Update8.bin 04CH -> Update4.bin **USB DEVICE NOT FOUND** Pen Drive undetected. Please Unplug the Pen Drive and plug NO USB it again. BACKUP START TIME Backup start time error. ERROR BACKUPEND TIME ERROR Backup end time error. DISK ERROR The data cannot be burn into CD/DVD disc. Please change another CD/DVD disc and backup the file. FAN FAILED Fan Error Warning. NO LOG DATA No Events Record. The condition is caused by trying to stop recording when SCHEDULE RECORD perform the schedule record. Please setup the record to manual mode and then stop the record. PLEASE SELECT ONE The message will be shown while using the ZOOM function CAMERA under split screen condition. Please switch the screen into full screen mode and then operate the ZOOM function.

## APPENDIX C: ERROR MESSAGE LIST