

# DVS-8504E User Guide



**V1.0.0**

**CTC**  
**union** *CTC Union Technologies Co., Ltd.*

## Content

<b>1.</b>	<b>Hardware and Setting .....</b>	<b>4</b>
1.1.	Package Contents .....	4
1.2.	Overview: Front panel .....	4
1.3.	Overview: Back Panel .....	4
<b>2.</b>	<b>Web Interface Setting .....</b>	<b>6</b>
2.1.	Connect to DVS by Internet browser .....	6
2.1.1.	Setting .....	7
2.1.2.	Playback.....	7
2.1.3.	Live view .....	7
2.1.4.	Image setup.....	8
2.1.5.	PTZ control.....	8
2.2.	Basic.....	9
2.2.1.	System.....	9
2.2.2.	Work mode.....	13
2.2.3.	Channel parameter .....	14
2.2.4.	Network .....	16
2.3.	Advance .....	24
2.3.1.	PTZ Control .....	24
2.3.2.	Preset Position.....	25
2.3.3.	Patrol.....	26

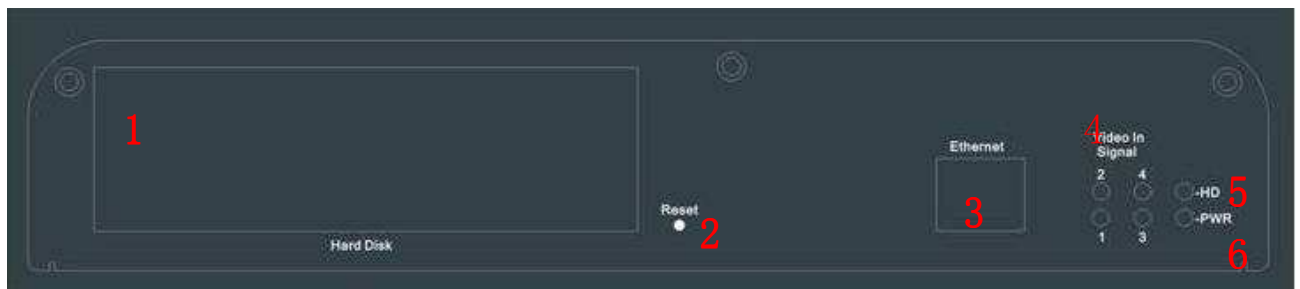
2.3.4.	FTP client.....	27
2.3.5.	SMTP .....	29
2.3.6.	SMS .....	31
2.3.7.	Alarm Input.....	32
2.3.8.	Alarm Output .....	33
2.3.9.	Motion Detection .....	34
2.3.10.	Video Loss/Cover .....	35
2.3.11.	System Log .....	36
2.3.12.	HD management .....	37
2.3.13.	Local recording .....	38
2.3.14.	Alarm local recording .....	39
2.3.15.	Event Remote Store .....	40
2.3.16.	Event Management .....	41
2.4.	Account.....	44
2.4.1.	Admin .....	44
2.4.2.	User.....	45

## 1. Hardware and Setting

### 1.1. Package Contents

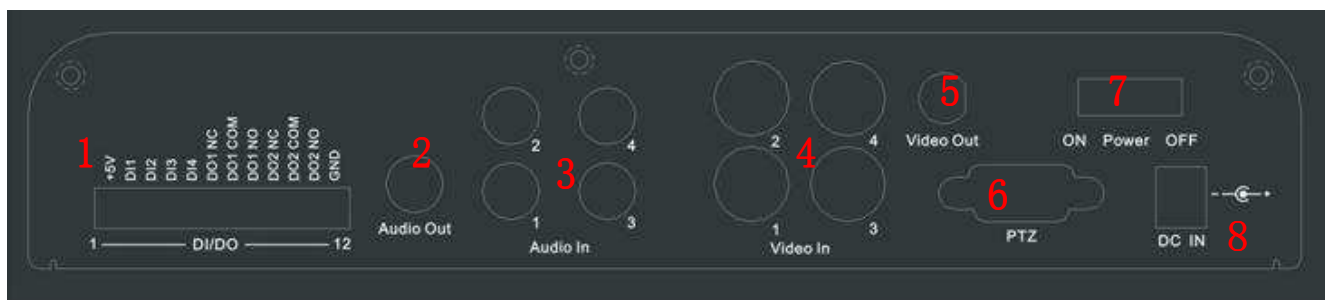
1. DVS 8504E video encoder
2. 12V Power Adaptor
3. CD (User Manual)

### 1.2. Overview: Front panel



1. Hard disk box.
2. Reset button
3. Network
4. Video-in LED.
5. Hard disk: Flash while hard disk is reading or writing.
6. Power LED:

### 1.3. Overview: Back Panel



1. DI/DO
2. Audio out.
3. Audio in
4. Video in.

5. Video out
6. PTZ control port.
7. Power switch.
8. Power DC in

## 2. Web Interface Setting

### 2.1. Connect to DVS by Internet browser

- Execute Internet browser (FireFox is not supported). If there is a DHCP server in local Lan, please key-in the IP address from DHCP server on address bar. If not, please use “192.168.0.100”to access.
- The default username and password is “admin”  
Note: Default username and password can be changed by “Account” → “Admin”

User Name:

Password:

- After that, main setup page will be shown (If there is ActiveX setup dialog, please choose “Install”)



Language: There are three languages can be choose: English, Simplified Chinese, tradition Chinese

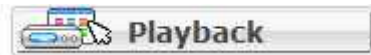


### 2.1.1. Setting

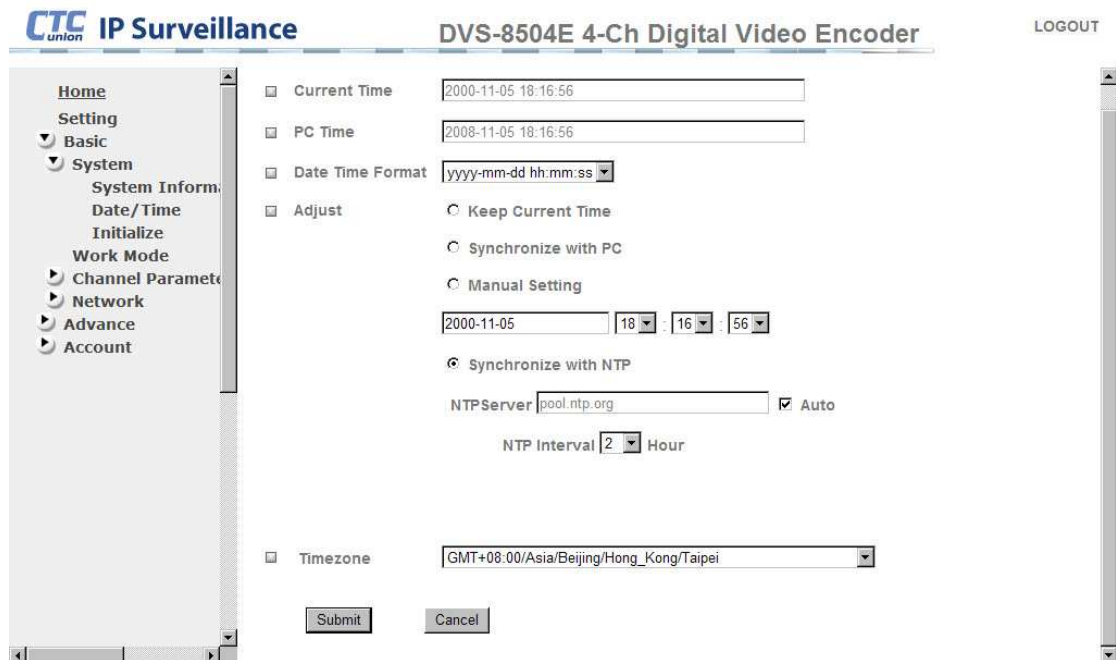


Click to setup basic and advance setting.

### 2.1.2. Playback



Look up recorded video by channel, event, and period time.



### 2.1.3. Live view




Channel : Choose channel. Choose main or sub channel to live view.

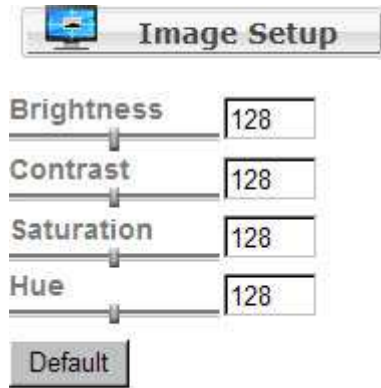


Snapshot

Save live image to local machine.

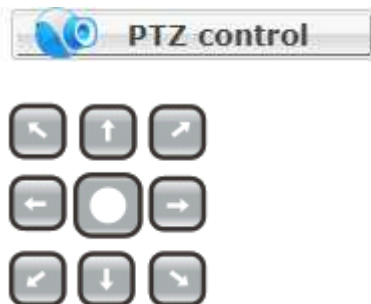
- 1 · Click  to get live image.
- 2 · Click “Save” to save image.
- 3 · Click “Close” to back live view.

#### 2. 1. 4. Image setup



Move the slider to setup brightness, contrast, saturation, and hue.

#### 2. 1. 5. PTZ control



Click these directional buttons to control PTZ camera.



Click “Set” to add camera preset point. Click “Go” to let camera go to preset point.



Click “Set” to select patrol way. Click “Go” to patrol. Before use this feature, please go to “Setting” → “Advance” → “Patrol” to set the patrol way.



Adjust camera focus.



Adjust camera zoom in or out.

## 2.2. Basic

There are four settings in this sub-menu. Including “System”, “Work mode“, “Channel parameter” and “Network”

### 2.2.1. System

#### 2.2.1.1. System Information

This page including information of “Product name”, “Firmware Version”, and “Hardware version”.

The screenshot displays the web interface for the CTC IP Surveillance system. The page title is "DVS-8504E 4-Ch Digital Video Encoder". The interface includes a navigation menu on the left with the following items: Home, Setting, Basic, System (selected), System Inform., Date/ Time, Initialize, Work Mode, Channel Paramete, Network, Advance, and Account. The main content area shows three fields for system information:

Product Name	DVS8504E
Firmware Version	Uboot:V1.1.4/Kernel:Linux2.6.23/App:2008-10-24 V1.1304
Hardware Version	2008-10-24

A "LOGOUT" link is visible in the top right corner of the page.

## 2. 2. 1. 2. Date/ Time

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "DVS-8504E 4-Ch Digital Video Encoder" and the logo is "CTC union IP Surveillance". The page is titled "Date/ Time" in the sidebar. The main content area contains the following configuration options:

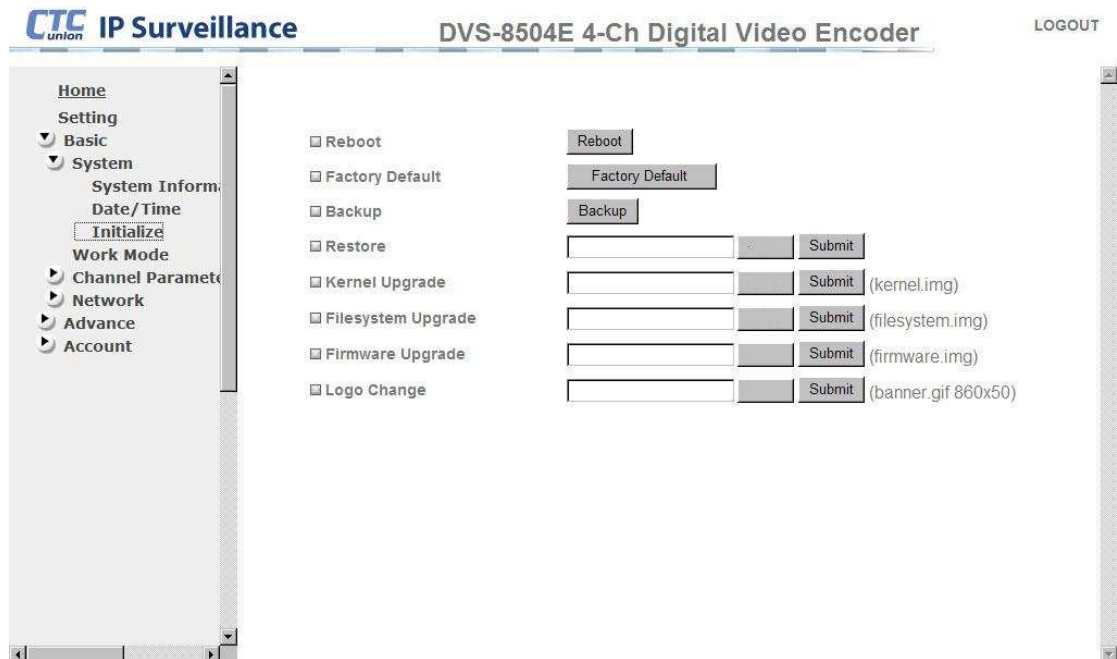
- Current Time: 2000-11-05 18:16:56
- PC Time: 2008-11-05 18:16:56
- Date Time Format: yyyy-mm-dd hh:mm:ss
- Adjust:
  - Keep Current Time
  - Synchronize with PC
  - Manual Setting
  - Synchronize with NTP
- NTP Server: pool.ntp.org  Auto
- NTP Interval: 2 Hour
- Timezone: GMT+08:00/Asia/Beijing/Hong\_Kong/Taipei

Buttons: Submit, Cancel

- Current time : Show current time of this device.
- PC Time : Show current time of controlling PC.
- Date Time Format : Select the display format of time. For example:  
yyy-mm-dd hh:mm:ss (Year—Month—Day Hour : Minute : Second)
- Adjust : Four ways to update server time.
  - ⒸKeep Current Time : Remain device current time.
  - ⒸSynchronize with PC : Synchronize with controlling PC
  - ⒸManual Setting : Select this mode to manually adjust the date and time of this device.
  - ⒸSynchronize with NTP : Refresh interval to synchronize the date and time of this device with those of the time server, known as NTP (Network Time Protocol) server
- NTP Server : Input NTP server name or IP address. No more than 64 characters.
- Time zone : Choose time zone and time difference from Greenwich Mean

Time in the area where the device is installed from the pull-down box.

### 2.2.1.3. Initialize



- Reboot : Click this button will reboot the device.
- Factory default : Click this to get back factory default. After reset, sever will reboot automatically.
- Backup: Click to save a config file into PC.
- Restore: Click to restore a config file into encode server. All setting will get back to previous one.
- Kernel upgrade: Click to upgrade device kernel.
- File system upgrade: Click to upgrade device kernel.
- Firmware update: Click to upgrade firmware.
- Logo update: Click to change homepage logo. Please use 850x50 gif formats to replace old one.

### 2.2.2. Work mode

The screenshot shows the configuration interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is 'CTC IP Surveillance DVS-8504E 4-Ch Digital Video Encoder' with a 'LOGOUT' link in the top right. A left-hand navigation menu includes: Home, Setting, Basic, System, System Inform., Date/Time, Initialize, **Work Mode**, Channel Paramete..., Network, Advance, and Account. The 'Work Mode' section is active, displaying the following settings:

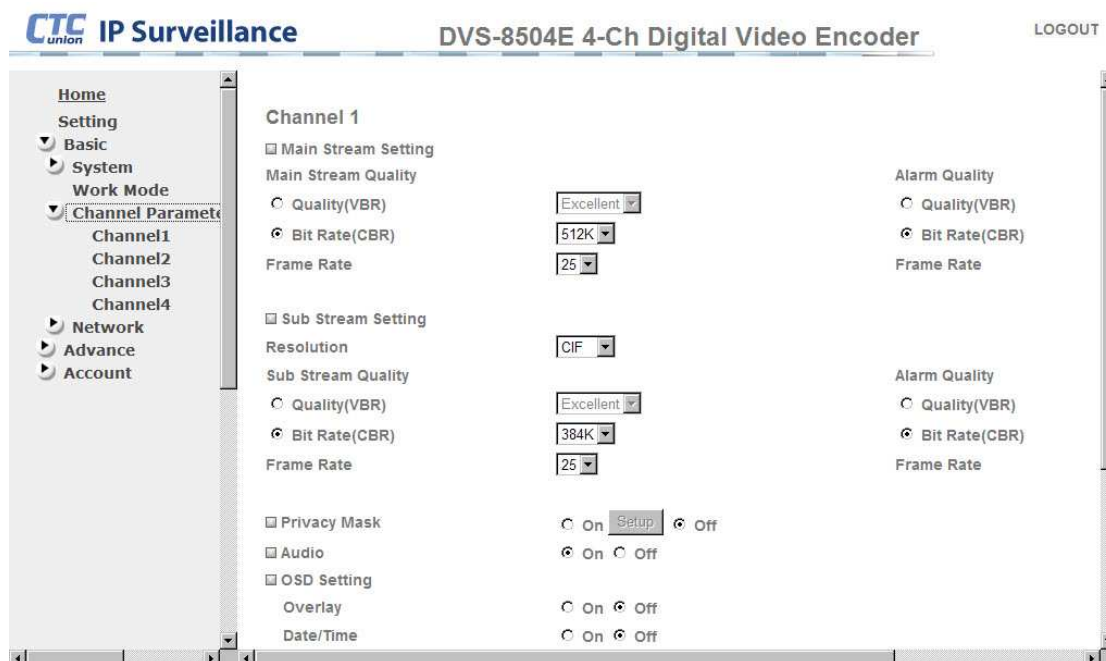
- Video Format:**  NTSC  PAL
- Stream Port:**
  - RTP Port:  (1024 ~ 65535)
  - RTCP Control Port(SSL):
- Resolution:**  (dropdown menu)
- Choose Channel:**  1  2  3  4

At the bottom of the configuration area are 'Submit' and 'Cancel' buttons.

- Video format : Two formats can be selected. NTSC or PAL
- Steam Port
  - RTP Port : Input RTP protocol port. User can use software which supports RTP steaming to watch video. (Range 1024 ~ 65535)
  - RTCP control port (SSL): Input RTCP protocol port. User can use software which supports RTCP steaming to watch video.
- Resolution : Click pull-down menu to choose resolution. ( CIF,D1 和 2CIF )
- Choose channel : Click checkbox to choose channel. Supports four channels in CIF. Supports two channels in 2CIF. Supports only one channel in D1.

### 2.2.3. Channel parameter

There are four channels support in this setting. Each channel has independence setting page.



- Main stream setting :

Main stream quality : VBR (Variable bit rate) – Bit rate are variable by video quality.

CBR (Constant bit rate) –Fix video bit rate.

Frame rate : Set picture transferred per second. Maximum are 25 frames in PAL mode. Maximum are 30 frames in NTSC mode.

Alarm Quality: All parameter are the same above.

- Sub stream setting : All parameter are the same with main stream.
- Privacy mask : To active select “on”, and then click “setup”. This will hide chosen region from view.
- Audio : Turn on or off audio.
- OSD (On screen display) setting :

Overlay: Turn on or off overlay text.

Date time: Turn on or off time show on screen.

Text color: Choose OSD text color.

Background color: Choose background color of OSD.

Alias: Channel alias

Display position : Text display position on screen.

## 2. 2. 4. Network

### 2. 2. 4. 1. Network Information

The screenshot shows the 'Network Information' configuration page for the DVS-8504E 4-Ch Digital Video Encoder. The interface includes a sidebar menu on the left and a main configuration area on the right. The configuration options are as follows:

- MAC Address:** 00.02:ab:0d:50:07
- Automatically (DHCP):**  Automatically (DHCP),  Manual
- IP Address:** 192.168.9.130
- Subnet Mask:** 255.255.255.0
- Default Gateway:** 192.168.9.254
- DNS Server:**  DNS Server,  Auto,  Manual
  - Primary DNS Server:** 192.168.9.254
  - Secondary DNS Server:** 168.95.1.1
- HTTPS Port:**  443,  443 (1024~65535)
- HTTP Port:**  80,  80 (1024~65535)
- Client Port:**  5678,  5678 (1024~65535)
- AV Port:**  6789,  6789 (1024~65535)

Buttons for 'Submit' and 'Cancel' are located at the bottom of the configuration area.

- MAC address : Show device MAC address.
- Automatically (DHCP) : Set device to DHCP
- Manual : Manual set IP, subnet and default gateway.
- DNS Server
  - Auto : Get DNS server IP automatically.
  - Manual : Set DNS IP manually.
  - Primary DNS : Input primary DNS server IP address here.
  - Secondary DNS Server : Input secondary DNS server IP address here.
- HTTPS Port : Set to connect by default https port 443 or range 1024~65535
- HTTP Port : Set to connect by default http port 80 or range 1024~65535
- Client Port : Define client device connect to encoder by which port.
- AV Port : Port of video service stream. 6789, or set manually (range 1024~65535)。

## 2. 2. 4. 2. PPPOE

Set to connect to Internet by PPPoE.

- IP address : Read-only. IP address from PPPoE service.
- Username ID : PPPoE username ID. Usually get from ISP.
- Password : PPPoE certified password. Usually get from ISP.
- DNS Server
  - Automatically: Get DNS IP automatically.
  - Manually : Set DNS IP manually.
  - Primary DNS : Input primary DNS server IP address here.
  - Secondary DNS Server : Input secondary DNS server IP address here.

### 2. 2. 4. 3. DDNS

This allow device to have DDNS domain name. Encoder will notify a domain name server to change mapping IP in real time (ad-hoc), the active DNS configuration of its configured hostnames, addresses or other information.

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "CTC union IP Surveillance" and "DVS-8504E 4-Ch Digital Video Encoder". There is a "LOGOUT" link in the top right corner. On the left, there is a navigation menu with the following items: Home, Setting, Basic, System, Work Mode, Channel Parameters, Network, Network Information, PPPOE, DDNS, UPNP, SNMP, HTTPS, IP Notification, Advance, and Account. The "DDNS" option is selected. The main content area shows the DDNS configuration form. At the top, there is a checkbox for "DDNS" with "On" selected and "Off" unselected. Below this are five input fields: "Server Name" (a pull-down menu showing "http://members.dhs.org"), "User ID", "Password", "Re-type Password", and "Host Name". At the bottom of the form are "Submit" and "Cancel" buttons.

- Server name : Select a DDNS server from Pull-down menu.
- User ID : Input DDNS ID from DDNS server.
- Password : DDNS authentication password.
- Host name: Hostname which registered on DDNS server.
- Note: Before using this function, please register an account from DDNS service provider.

## 2. 2. 4. 4. UPnP

UPnP helps user to find this machine easily. It will open service ports on local LAN UPnP router. Make others from Internet easily to access this device.

The screenshot displays the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "DVS-8504E 4-Ch Digital Video Encoder" and the logo is "CTE union IP Surveillance". The left sidebar shows a navigation menu with "UPNP" selected. The main content area shows the UPnP configuration options: "UPnP" is checked "On", "Turn On UPnP Port Forwarding" is checked, and there are input fields for "HTTP Port" (default 80), "SSL Port" (default 443), "H.264 Port" (default 0), and "H.264 SSL Port" (default 0). All ports have a range of (1024 ~ 65535). There are "Submit" and "Cancel" buttons at the bottom.

- HTTP port : HTTP connected port. Use default 80 or set manually (range 1024~65535)
- SSL port : Https security connection port setting. Use default 443 or set manually. (range 1024~65535)
- H.264 port : Set video stream port (range 1024~65535)
- H.264 SSL port : Input security connection port (range 1024~65535)

## 2. 2. 4. 5. SNMP

Simple Network Management Protocol (SNMP) is a widely used protocol for monitoring the health and welfare of network equipment.

### SNMP\_TRAP

CTC union IP Surveillance DVS-8504E 4-Ch Digital Video Encoder LOGOUT

Home  
Setting  
Basic  
System  
Work Mode  
Channel Parameters  
Network  
Network Information  
PPPOE  
DDNS  
UPNP  
SNMP  
Trap Setup  
Manager Setup  
HTTPS  
IP Notification  
Advance  
Account

TRAP Information  On  Off

	Receiver IP	Community string
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>
7	<input type="text"/>	<input type="text"/>
8	<input type="text"/>	<input type="text"/>

Submit Cancel

- Trap Information: Turn on or off SNMP service.
- Receiver IP : SNMP information receiver IP.
- Community string : Input SNMP server string to communicate with SNMP server.

## SNMP\_MANAGER

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "IP Surveillance" and "DVS-8504E 4-Ch Digital Video Encoder". There is a "LOGOUT" link in the top right corner. The left sidebar contains a navigation menu with the following items: Home, Setting, Basic, System, Work Mode, Channel Parameters, Network, Network Information, PPPOE, DDNS, UPNP, SNMP, Trap Setup, Manager Setup, HTTPS, IP Notification, Advance, and Account. The main content area is titled "Manager Information" and has radio buttons for "On" (selected) and "Off". Below this is a table with 8 rows, each representing an SNMP manager. The columns are "Manager IP", "Community string", and "Access". The "Access" column has a dropdown menu with "Read-Write" selected for all rows. At the bottom of the table are "Submit" and "Cancel" buttons.

	Manager IP	Community string	Access
1			Read-Write
2			Read-Write
3			Read-Write
4			Read-Write
5			Read-Write
6			Read-Write
7			Read-Write
8			Read-Write

- Manager IP : Input SNMP manager IP.
- Community string : Input SNMP server string to communicate with SNMP server.
- Access : Let user “read” or “read and write” on device.

### 2.2.4.6. HTTPS

Https is a URI scheme used to indicate a secure HTTP connection. It is syntactically identical to the http:// scheme normally used for accessing resources using HTTP. Select “on” to start to setup.

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "CTC union IP Surveillance" and "DVS-8504E 4-Ch Digital Video Encoder". There is a "LOGOUT" link in the top right. The left sidebar contains a navigation menu with items: Home, Setting, Basic, System, Work Mode, Channel Parameters, Network, Network Information, PPPOE, DDNS, UPNP, SNMP, Trap Setup, Manager Setup, HTTPS, IP Notification, Advance, and Account. The main content area is for the "HTTPS" configuration. It has a radio button for "On" (selected) and "Off". Below it is a checkbox for "Create & Install" with a "Create self-signed certificate" button. There is another checkbox for "Installed Certificate Subject Name" with a text input field containing "No certificate installed." and "Properties" and "Remove" buttons. At the bottom, there is a checkbox for "HTTPS Connection Policy" with a dropdown menu currently showing "HTTP". A "Submit" button is located at the bottom of the form.

- Create & install : Click “create self-signed certificate” to create a cer
- Installed Certificate Subject Name: show or remove certificate.
- HTTPS connection policy: Three policies can be choosing. (HTTP, HTTPS, HTTP&HTTPS)

### 2.2.4.7. IP Notification

Notify user by E-mail, while device is using new IP. Select “on” to turn on.

- Notify Type: Select which condition to send notification.
- SMTP Server name: Input SMTP server name or IP address here.
- SMTP server port: Use default SMTP port or user-defined (range 1024~65535)
- Authentication: Select authentication type according to your SMTP server.
- Receiver mail address: There are five receivers acceptable.
- Sender mail address: Input sender E-mail address here.
- Subject: Mail subject
- Message: Mail text

## 2.3. Advance

### 2.3.1. PTZ Control

This page let user setup parameter of PTZ.

The screenshot shows the PTZ Control configuration page. The left sidebar contains a navigation menu with the following items: Home, Setting, Basic, Advance (selected), PTZ Control (selected), Preset Position, Patrol, FTP Client, SMTP, SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Coverage, System Log, HDD Management, Local Recording, Alarm Local Recording, Event Remote Storage, Event Management, and Account. The main content area is titled 'DVS-8504E 4-Ch Digital Video Encoder' and includes a 'LOGOUT' link in the top right corner. The PTZ Control parameters are as follows:

Parameter	Value	Range
Channel Switch	1	
Connection Type	RS485	
Protocol	Pelco-P	
Baud Rate	9600	bps
Camera ID	1	(0~255)
Pan Speed	25	(0~63)
Tilt Speed	25	(0~63)
Zoom Speed	1	(0~3)
Focus Speed	1	(0~3)
Iris Speed	50	(0~100)
Auto Pan Speed	50	(0~100)

At the bottom of the form, there are 'Submit' and 'Cancel' buttons.

- Channel Switch : Select one channel to start to setup.
- Connection type : Select connection type according to interface.
- Protocol: Select camera protocol. Please refer to user manual of camera.
- Pan Speed: PTZ camera pan speed (range 0~63).
- Tilt Speed: PTZ camera tilt speed (range 0~63)
- Zoom speed: PTZ camera zoom speed (range 0~3)
- Focus speed: Focus speed of camera (range 0~3).
- Iris speed: Adjust Iris speed of camera (range 0~100)
- Auto Patrol speed: Adjust auto patrol speed (range 0~100)

### 2.3.2. Preset Position

Setup preset position of PTZ camera on each channel.

The screenshot shows the 'Preset Position' configuration page. The top header includes the CTC logo, 'IP Surveillance', and 'DVS-8504E 4-Ch Digital Video Encoder'. A 'LOGOUT' link is in the top right. The left navigation menu is expanded to 'Preset Position'. The main content area contains the following elements:

- Channel switch | 1
- Order | 1 | Preset position name | ddd |
- Set position | ddd |
- Start position | ddd |
- Current start position |
- 
- A table of 32 preset positions (01-32) with input fields and 'Delete' buttons.

Steps :

- Select channel you want to setup.
- Select preset number which you want to setup. There are 32 numbers for using.  
Write down position name and click “Set”  
Click “Position set panel”, there will be a new PTZ control windows appear.  
“Start position”(home position). Choose a position name for home position from pull-down menu. “Clear all” will clear all position you set.
- Remember to click “Submit” after any changing.

### 2.3.3. Patrol

This page let user setup patrol route of camera. Every channel has four patrol routes. Every route is constituted by 8 preset points. Camera will move by order to the end.

The screenshot shows the 'Patrol' configuration page in the DVS-8504E web interface. The page has a navigation menu on the left with options like Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Recor, Event Remote Stc, Event Managemer, and Account. The main content area is titled 'DVS-8504E 4-Ch Digital Video Encoder' and includes a 'LOGOUT' link. The configuration options are as follows:

- Channel switch: 1 (dropdown) Set as default route: 1 (dropdown)
- Tour index: 1 (dropdown) Tour name: [text input]  Enable  Disabled
- Interval: 0 [text input] sec
- Tour positions setting: Order (dropdown) ddd (dropdown) [Setup] [Clear] [Clear all]

Below these options are 10 numbered input fields for preset points, labeled 1. through 10. At the bottom of the page are 'Submit' and 'Cancel' buttons.

- Channel switch : Choose channel to setup
- Set as default route: Choose a route number
- Tour index: Show the route number you are setting now.
- Tour name: Give a name for this tour.
- Interval: Stop time on each preset position.
- Select preset point, click “setup” to put it on the preset route.
- Remember to click “Submit” after any changing.

## 2.3.4. FTP client

FTP client will send images file while alarm accrued.

### 2.3.4.1. General

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "IP Surveillance" and "DVS-8504E 4-Ch Digital Video Encoder". There is a "LOGOUT" link in the top right corner. On the left, there is a navigation menu with the following items: Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client (selected), General (selected), Periodical Send, SMTP, SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Reco, Event Remote Stc, Event Managemer, and Account. The main content area is titled "FTP General Setting" and contains the following fields and controls:

- FTP General Setting:  On  Off
- Server Name:
- Port:  (0 ~ 65535)
- User Name:
- Password:
- Passive Mode:  On  Off
- Attached File Type:  JPEG

At the bottom of the form are three buttons: "Submit", "Cancel", and "Test".

- FTP General Setting : Turn on or off this feature.
- Server name : Input FTP server name or IP address. ◦
- FTP port : Input FTP server port, default is 21 (range 0~65535)
- User name : Input user name of FTP server.
- Password : Input password of FTP server.
- Passive Mode : While you connecting to a FTP server with passive mode. Please turn on this.
- Attached File Type : Click here to send “JPEG” file to FTP server.

### 2.3.4.2. Periodical Sending

Send images file to FTP server periodically.

The screenshot displays the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "IP Surveillance" and "DVS-8504E 4-Ch Digital Video Encoder". A "LOGOUT" link is visible in the top right corner. On the left, a navigation menu is shown with the following items: Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, General, Periodical Sending (highlighted), SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Recor, Event Remote Stc, Event Managemer, and Account. The main content area is titled "SMTP Periodical Sending" and contains the following configuration options: "SMTP Periodical Sending" (checked), "On" (selected radio button) and "Off" (unselected radio button), "Image File Name" (text input field containing "smtpfile"), "Suffix" (radio buttons for "Date Time" (selected) and "None"), "Interval" (text input field containing "30" and "M (30-1440)"), and "Channel Switch" (checkboxes for channels 1, 2, 3, and 4). At the bottom of the configuration area are "Submit" and "Cancel" buttons.

- FTP Periodical Sending : Turn on or off this feature.
- Image File Name : File name of sending to FTP server.
- Suffix : Suffix of sending-file.
- Interval : Choose interval time of sending-file
- Channel Switch : Choose active channel here.

## 2.3.5. SMTP

By setup SMTP server, let device send image file to specific E-mail address.

### 2.3.5.1. General

- SMTP : Turn on or off this feature.
- SMTP Server : Input SMTP server IP address
- SMTP port : Use default SMTP port or user-defined (range 1024~65535)
- Authentication: Select authentication type according to your SMTP server.
- Receiver mail address: There are five receivers acceptable.
- Sender mail address: 5 receivers can be set.
- Subject: Mail subject
- Message: Mail text

### 2.3.5.2. SMTP Periodical Sending

Send image file to specific E-mail address periodically.

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "DVS-8504E 4-Ch Digital Video Encoder" and the logo is "CTC union IP Surveillance". A "LOGOUT" link is visible in the top right corner. On the left, there is a navigation menu with the following items: Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, General, Periodical Sending (highlighted), SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Reco, Event Remote Stc, Event Managemer, and Account. The main content area is titled "SMTP Periodical Sending" and contains the following configuration options:

- SMTP Periodical Sending:  On  Off
- Image File Name:
- Suffix:  Date Time  None
- Interval:  M (30-1440)
- Channel Switch:  1  2  3  4

At the bottom of the configuration area, there are "Submit" and "Cancel" buttons.

- SMTP Periodical Sending : Turn on or off this feature.
- Image File Name : Attached file name.
- Suffix : Select “Date Time” for image suffix or not.
- Interval : Periodical mail interval time (Minute). Range from 30 minutes to 1440minutes.
- Channel Switch : Choose active channel here.

### 2.3.6. SMS

Send message to mobile device.

The screenshot shows the configuration page for SMS. The left sidebar menu includes: Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, General, Periodical Send, **SMS**, Alarm Input, Alarm Output, Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Recor, Event Remote Stc, Event Managemer, and Account. The main configuration area contains the following fields:

- SMS Switch: On (selected) / Off
- Service Provider: SMS1 (dropdown)
- User Name: admin (text input)
- Password: ..... (password input)
- Mobile Phone Number1: (text input) (example:86+12345678900)
- Mobile Phone Number2: (text input)
- Mobile Phone Number3: (text input)
- Mobile Phone Number4: (text input)
- Mobile Phone Number5: (text input)

Buttons: Submit, Cancel

- SMS switch : Turn on or off this feature.
- Service provider : Select message service provider.
- Username : Input username on SMS server.
- Password : Input SMS server password.
- Mobile phone Number : Input receiver phone number from 1 to 5.

### 2.3.7. Alarm Input

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "CTC IP Surveillance" and "DVS-8504E 4-Ch Digital Video Encoder". There is a "LOGOUT" link in the top right corner. On the left is a navigation menu with the following items: Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, General, Periodical Sendir, SMS, Alarm Input (highlighted), Alarm Output, Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Reco, Event Remote Stc, Event Managemer, and Account. The main configuration area on the right contains the following settings:

- Sensor Index: 1
- Alarm Input:  On  Off
- Debounce Time: 5 s (5~10s)
- Trigger Condition: High
- PTZ Action:  On  Off
- Channel Switch: 1
- Camera Move: ddd

At the bottom of the configuration area are "Submit" and "Cancel" buttons.

- Sensor Index : Select which sensor you want to config.
- Alarm Input : Turn on or off this feature.
- Debounce Time : Interval time, range from 5 to 10 seconds.
- PTZ Action : If turn this on, PTZ camera will move to allocated position while alarm.  
Assign channel and position, then.

### 2.3.8. Alarm Output

The screenshot shows the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "DVS-8504E 4-Ch Digital Video Encoder" and the logo is "CTC union IP Surveillance". A "LOGOUT" link is visible in the top right corner. On the left, there is a navigation menu with the following items: Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, SMS, Alarm Input, Alarm Output (highlighted), Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Recor, Event Remote Stc, Event Managemer, and Account. The main content area is titled "Alarm Output" and contains the following settings:

- Alarm Output: 1 (dropdown menu)
- Alarm Output:  On  Off
- Relay:  On  OFF
- Alarm Duration:  Follow Event  0 s (0~60s)

At the bottom of the settings area, there are "Submit" and "Cancel" buttons.

- Alarm Output : Select DO1 or DO2 for alarm output.
- Alarm Output switch : Turn on or off “alarm output”
- Relay : Turn on or off relay.
- Alarm Duration: “Follow Event” alarm will continue till event end. Or set durative time.

### 2.3.9. Motion Detection



- Channel : Select which channel to setup.
- Motion detection : Turn on or off this function.
- Spatial Threshold : Sensitivity of motion detection.
- Debounce time : Motion-triggered duration time.

### 2. 3. 10. Video Loss/Cover

The screenshot displays the configuration page for 'Video Loss/Cover' in the CTC IP Surveillance system. The page title is 'DVS-8504E 4-Ch Digital Video Encoder'. The left sidebar menu includes options like Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Cover (selected), System Log, HDD Management, Local Recording, Alarm Local Recording, Event Remote Storage, Event Management, and Account. The main configuration area includes:

- Channel Switch: 1
- Video Loss:  On  Off
- Debounce Time: 5 s (5~10s)
- Video Cover:  On  Off
- Debounce Time: 5 s (5~10s)
- Spatial Speed: 50
- Sensitive Level: 50

Buttons for 'Submit' and 'Cancel' are located at the bottom right of the configuration area.

- Channel Switch : Select which channel to setup.
- Video Loss : Turn on to active specific action while “video loss”. Go to “Event Management” --> “Event Setting” to set action.
- Debounce Time : Interval time, range from 5 to 10 seconds.
- Video Cover : Detect if camera lanes is covered.
- Debounce Time : Interval time, range from 5 to 10 seconds.
- Sensitive Level : Setup “video cover” sensitive. Range 0~100

### 2.3.11. System Log

CTC IP Surveillance DVS-8504E 4-Ch Digital Video Encoder LOGOUT

Home  
 Setting  
 Basic  
 Advance  
 PTZ Control  
 Preset Position  
 Patrol  
 FTP Client  
 SMTP  
 SMS  
 Alarm Input  
 Alarm Output  
 Motion Detection  
 Video Loss/Cover  
 System Log  
 HDD Management  
 Local Recording  
 Alarm Local Recor  
 Event Remote Stc  
 Event Managemer  
 Account

Remote Log  On  Off

Server IP

Port  814  2121 (1024~65535)

Current Log

1	2000/11/10 00:08:40	192.168.9.130	from local	ftp upload	fail
2	2000/11/10 00:09:10	192.168.9.130	from local	ftp upload	fail
3	2000/11/10 00:09:40	192.168.9.130	from local	ftp upload	fail
4	2000/11/10 00:10:12	192.168.9.130	from local	ftp upload	fail
5	2000/11/10 00:10:43	192.168.9.130	from local	ftp upload	fail
6	2000/11/10 00:11:13	192.168.9.130	from local	ftp upload	fail
7	2000/11/10 00:11:44	192.168.9.130	from local	ftp upload	fail
8	2000/11/10 00:12:14	192.168.9.130	from local	ftp upload	fail
9	2000/11/10 00:12:45	192.168.9.130	from local	ftp upload	fail
10	2000/11/10 00:13:16	192.168.9.130	from local	ftp upload	fail

- Remote Log : Send log to remote log server.
- Server IP : Input IP of remote log server
- Port : Remote Log Server port. (Range from 1024 ~ 65535)
- Current Log : Show DVS current log. It will overwrite old log while log pool is full.

### 2.3.12. HD management

- HDD information : If there is hard disk connected inside, hard disk size and used size will show inside. If not, all these will show 0.
- Format : Click “Format” button to format hard disk. All data will be erased.
- Disk Management Strategy :
  - Disk Full Strategy: “Overwrite” old data while hard disk is full. “STOP Write” hard disk while hard disk is full.
- Hard Disk capacity alarm: Send alarm while hard disk spaces reach to set percentage.
- Alarm Debounce Time: Alarm duration.
- Recorded File Span Time: Make video file split into 15, 30, 45 or 60 min.

### 2. 3. 13. Local recording

CTC IP Surveillance DVS-8504E 4-Ch Digital Video Encoder LOGOUT

Channel Switch 1  
 Local Recording  On  Off  
 Full-Time Record  
 Stream Choice Main Stream  
 Schedule  
 Stream Choice Main Stream

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon.																								
Tue.																								
Wed.																								
Thu.																								
Fri.																								
Sat.																								
Sun.																								

- Channel Switch : Select which channel you want to setup.
- Local Recording
  - Full-Time Recording: Record all video in this channel. Then, please choose “main” or “Sub” channel.
  - Schedule: Use schedule table to select when to record video. Each block represent half hour.

### 2.3.14. Alarm local recording

The screenshot displays the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "CTC IP Surveillance" and "DVS-8504E 4-Ch Digital Video Encoder". A "LOGOUT" link is visible in the top right corner. On the left, there is a navigation menu with options like Home, Setting, Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Cover, System Log, HDD Management, Local Recording, Alarm Local Recording, Event Remote Stc, Event Managemer, and Account. The main content area shows the "Alarm Local Recording" settings. The "Alarm Local Recording" checkbox is checked, and the "On" radio button is selected. Below this, there is a "Stream Choose" section with four channels (Channel1, Channel2, Channel3, Channel4). Each channel has two radio buttons: "Main Stream" (selected) and "Sub Stream". At the bottom of the form, there are "Submit" and "Cancel" buttons.

- Alarm local recording : Record video while alarm occurs. Then choose main or sub stream on recording.

### 2.3.15. Event Remote Store

Save video to remote video server while event occurs.

The screenshot displays the web interface for the DVS-8504E 4-Ch Digital Video Encoder. The page title is "DVS-8504E 4-Ch Digital Video Encoder" and the logo "CTC union IP Surveillance" is visible. A "LOGOUT" link is in the top right corner. On the left is a navigation menu with options: Home, Setting (Basic, Advance, PTZ Control, Preset Position, Patrol, FTP Client, SMTP, SMS, Alarm Input, Alarm Output, Motion Detection, Video Loss/Coverage, System Log, HDD Management, Local Recording, Alarm Local Recording, Event Remote Store, Event Management), and Account. The "Event Remote Store" option is selected. The main content area contains the following configuration options:

- Remote Storage  On  Off
- IP address
- Port
- Stream Choice
  - Channel 1  Main Stream  Sub Stream
  - Channel 2  Main Stream  Sub Stream
  - Channel 3  Main Stream  Sub Stream
  - Channel 4  Main Stream  Sub Stream

At the bottom of the configuration area are "Submit" and "Cancel" buttons.

- IP address: Input remote video server IP address.
- Port: Input remote video server port here.
- Stream choice: Choose main or sub stream when recording.

## 2. 3. 16. Event Management

This function is including event setting, import and export.

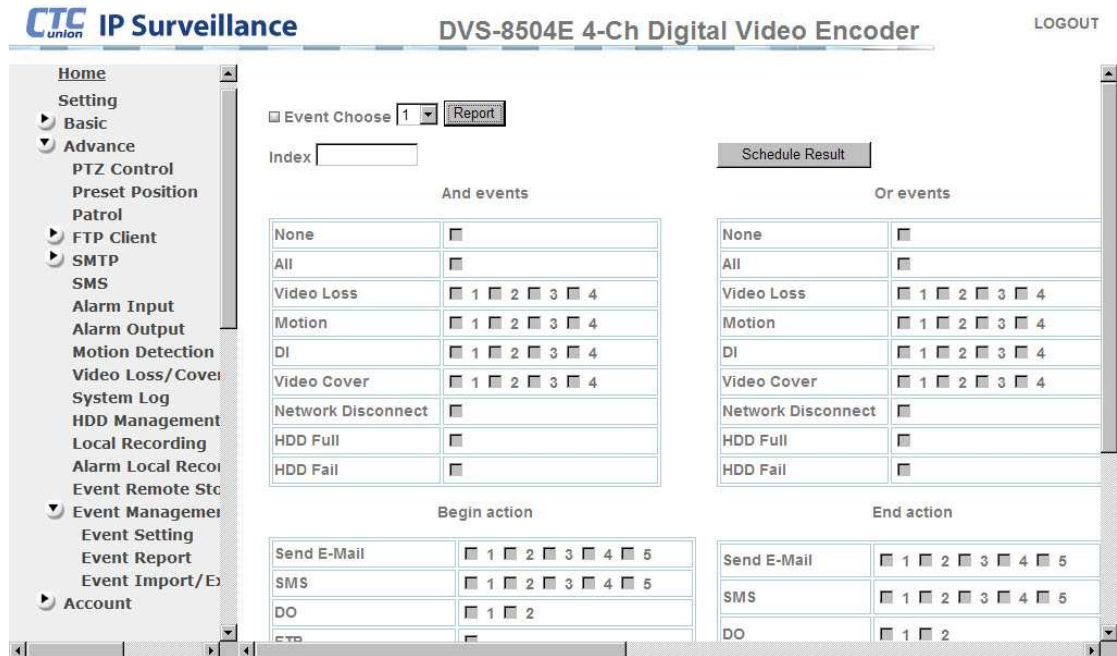
### 2. 3. 16. 1. Event Setting



- Event: Give every event setting a serial number
- Event Enable: Turn on or off event setting.
- Event Name: Give every event a specific for Identification.
- AND : Select trigger-event. In “AND” condition, all events should happen, and then device trigger alarm.
- OR: Select trigger-event. In “OR” condition, one of selected event happen, then trigger alarm.
- Begin Action: Select action while alarm is triggered.
- End Action: Select action while alarm is end
- Schedule: Schedule recording. The same table as “Local recording”

### 2. 3. 16. 2. Event Report

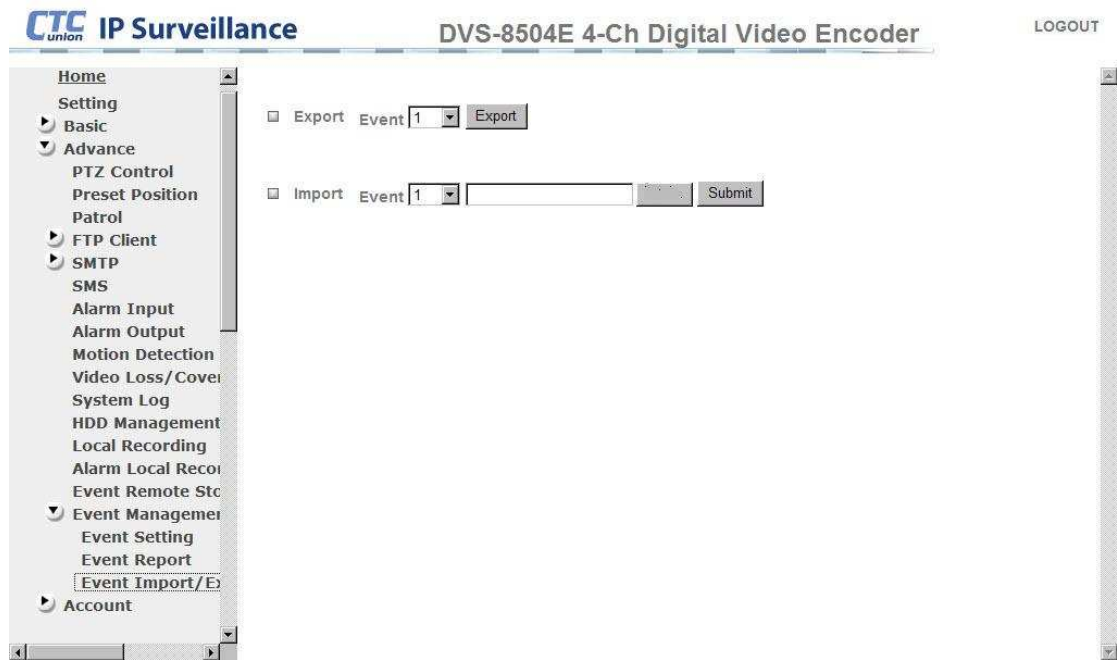
Check event setting on each event serial number.



Click "Report" to show report.

### 2.3.16.3. Event import/ Export

All Event setting could export to a file. Also user can import event setting.

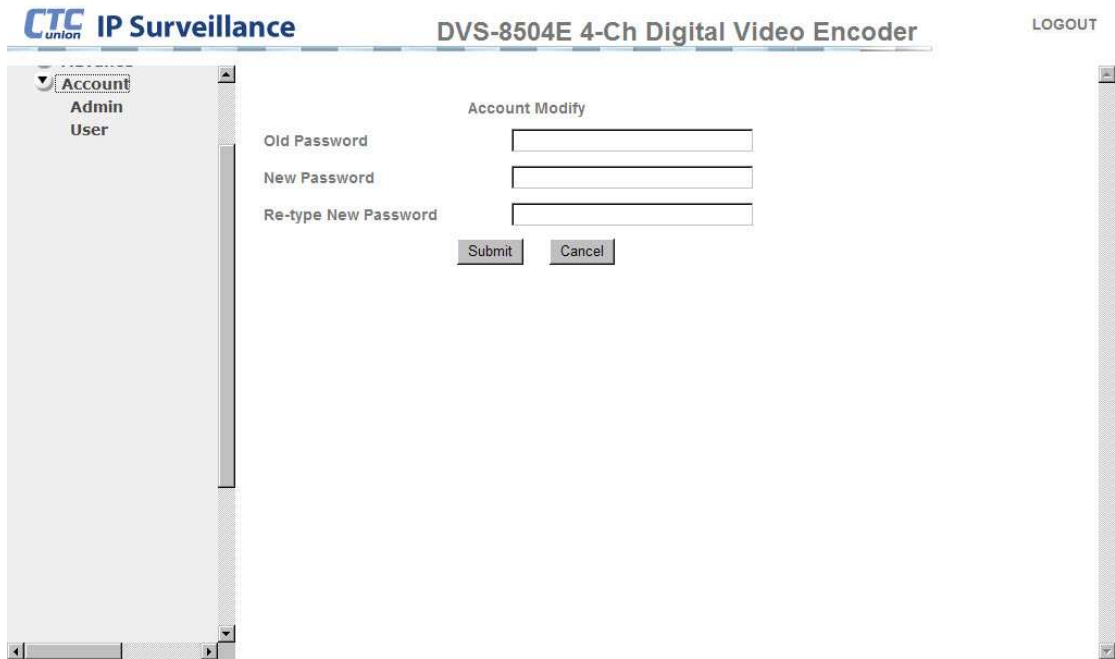


- Export : Click "Export" to export a event file. Then, select "save as" to save on PC.
- Import : Click "Browse" to select a specific file to import.

## 2.4. Account

### 2.4.1. Admin

Administrator's default username and password is "admin". This page allow user change password for administrator.



The screenshot displays the web interface for CTC IP Surveillance. At the top left is the logo "CTC union IP Surveillance". At the top center is the device model "DVS-8504E 4-Ch Digital Video Encoder". At the top right is a "LOGOUT" link. On the left side, there is a navigation menu with a dropdown arrow next to "Account", and below it, "Admin" and "User" are listed. The main content area is titled "Account Modify" and contains three text input fields labeled "Old Password", "New Password", and "Re-type New Password". Below these fields are two buttons: "Submit" and "Cancel".

- User should input old password to verify changing.

## 2.4.2. User

Change normal user “User name”, “Password” and limits of authority.

The screenshot displays the 'Account Management' interface. On the left, a sidebar shows 'Account', 'Admin', and 'User' options. The main area contains a table with the following structure:

	User Name	Password	Basic	Advance	PTZ	MIC	Ch1	Ch2	Ch3	Ch4
User1	user1	••••••	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User3			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User4			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User5			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User6			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User7			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User8			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User9			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

At the bottom of the table are 'Submit' and 'Cancel' buttons.

- User name: Input normal user' user name. (Do not exceed 32 characters)
- Password: Input normal user's password. (Do not exceed 32 characters)
- Basic: User's competence on setup "Basic" function
- Advance: User's competence on setup "Advance" function
- PTZ: User's competence on controlling PTZ camera.
- MIC: User's competence on setup "MIC"
- Ch1~Ch4: user's competence on each channel.
- Playback: user's competence on watching "Playback" .