

# Welcome

Thank you for choosing our DVS Image Center software. Please read the manual carefully before using. If you have problems which is not answered in the manual please contact your vendor or the technical support department of our company.

We reserve the right to update the manual without notice.

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## 1. General

#### 1.1. Manual Version

Manual Version	Differences with previous versions	Time of updated
V1.3.1.2	Revised bugs in "add/delete device" of	2009-4-29
	change digital map; added length limit	
	of the settings, etc.	
V1.3.0.18	Revised bugs in pre-recording; added	
	Korean language, etc.	
V1.3.0.17	Added transferring server and	
	recording server, added searching from	
	recording server for remote file.	
V1.3.0.16	Added Email alarm, remote recording	
	playback, and set buffer locally, etc.	

#### 1.2. System Requirement

Operating System

Windows 2000 and Windows XP (English or Simplified Chinese Edition)

#### \delta Minimum Requirement

CPU: Pentium 1.1Ghz

Memory: 128MB

Video Card: TNT2

Sound Card: Necessary when audio monitoring and two-way talk-back is in use

Hard Drive: Minimum 40G if recording is in use

#### Recommended System

CPU: Pentium 2.6Ghz

Memory: 512MB

Video Card: NVidia Geforce FX5200 or ATI RADEON 7000(9000) series,

128M memory (to support hardware zoom function)

Software Requirement

Inter Explorer 6.0 or above

DirectX 8.0or above

#### **1.3.** Notes

The IP CAM in this manual refers to IP Camera. DVS refers to Digital Video Server. The operation of DVS also applies to IP CAM, except there are different descriptions otherwise.

Single click refers to click the left key of mouse one time

Double click refers to click the left key of mouse two times

## 2. Brief Introduction to DVSImageCenter software

Main Features:

Manage unlimited video and audio channels simultaneously Set up the IP CAM Digital map function Support previewing and rotate monitoring Support audio monitoring Support audio monitoring Support two-way talk back Support recording (pre-alarm recording, manual recording, alarm-triggered recording, scheduled recording) Support recording playback and search Support recording playback and search Support recording server Support transferring server Support transferring server Support snapshot by the DVSImageCenter software on PC or by the IP CAM itself

The DVSImageCenter has powerful and complete functions for your surveillance system.

## 3. Software Installation

Find the installation file DVSImageCenter\_Vxx.exe, double click it and the following windows will show up:

InstallShield Vizard		
Choose Destination Location Select folder where Setup will install files.		
Setup will install DVSImageCenter in the follow	ving folder.	
To install to this folder, click Next. To install to another folder.	a different folder, click Bro	wse and select
Destination Folder D:\Program Files\DVSImageCenter		B <u>r</u> owse
InstallShield	< <u>B</u> ack <u>N</u> ext	Cancel

Please follow the instruction, click [Next] until the button of [Finish] shows up. Click [Finish] to finish the installation. The software is installed to the default folder C:\Program Files\DVSImageCenter.

## 4. User Guide

## 4.1. Login

Click the file "DVSImageCenter.exe", the following window will pop up:

Login 🔀			
User Name:			
Password:			
Auto login at next time			
OK Cancel			
图 1			

Input your user name and password (the default user name is "admin" and the password is empty. After clicking 【OK】, the software starts to initialize. The main interface will show up after a few seconds:

# 4.2. Main Interface and Functions

## 4.2.1. Main Interface



#### 4.2.2. Image Window



Double click the image window, you can maximize the window. Double click the maximized window again, it will be back to the previous image form.

Single click the right key, the following menu will pop up (different window status will have different menus):

	Cycle switch assign: to set the video channel of each display window.
loop switching settings 🔫 •••••	Full Screen: full screen display without grouped windows and function buttons.
full screen	Screen View: to set how many windows per screen with same function as the
page display	button on the lower left corner.
	Screen View: to add, delete and modify DVS and its display group.
group settings	Delete preview window: To delete the link between the current window and the
delete preview window	channel of DVS
connect image disconnect image start recording	Image control: to connect, disconnect the image channel of this window; to start or stop recording; and to capture snapshot.
stop recording	Login & logout: to login and logout DVS
snapshot	Notes: when you login or logout, all relevant windows of DVS will login or
log on log off	logout at the same time. After you login, you can control pan/tile and set up the DVS.
device settings	DVS Settings: to set up the DVS of the image window.
remote file	Remote file: to search, playback and download the recording and snapshot.
Check Alarm 🔫	Chaole Alama & Unabaole Alama
UnCheck Alarm	Check Alarm & Uncheck Alarm
page control 🗲	Page control: to control all the windows on the current page.



### 4.2.3. Channel Control Buttons

The operations of Connect & Disconnect Image, Volume control, Audio monitoring on/off, and Snapshot are for the current image window. The operations of Login, Logout, DVS settings, Talk-back on/off, and Delete alarm are for the DVS of the image window. The Delete alarm operation is to delete all the alarms triggered by the DVS of the image window.

#### 4.2.4. Talk-Back

Click the Talk-back on/off button **I**, you can talk to the current DVS from your viewer PC.

#### 4.2.5. Information System



## 4.2.6. Volume Control

This is to control the speaker's volume of the current monitored window.

## 4.2.7. Group Settings

	group settings	
Current Group	Group001 TP_CAMERA Camera01 Camera01 Group002 Group003 Group004 device URL 192.168.0.209 device port 4000 number of channels 1 DI count 1 DO count 1 User name admin password: *****	Properties of the current server
Save or cancel changes	attention: add one group at least!!! • OK Cancel add modify ••• seach device name IP address port channel subnet mask gateway multicas:	Add new servers to the group or modify the selected server
Search servers in the LAN	e search 100 % add ti	Add property of he selected server

Right click the current group, the following menu will pop up (menu will be different if you choose different group):

Copy Right @ TOSI Tech



#### 4.2.8. Image Group



In the grouped window, the status of severs and cameras will be shown: gray color means it is disconnected; blue color means it is connected; red color means it is alarming.

Check the "Show server address". The IP address (or domain name) and port information will show up after the server name.

## 4.2.9. Control of the Front Device



In order to control the front device of the selected image, you have to set the decoder of the device. Please refer to the **[**Local Settings - P/T Protocol ]. The default protocol is built in the NVS (it can be downloaded from the NVS Settings - Front Device Settings and saved in the NVS).

## 4.2.10. Image Control



[Image Style] is to turn on/off the status bar of the window

Page turn manually or auto cycle are valid after you turn on page cycle.



#### 4.2.11. Functions

## 4.3. Loop switching

Loop switching is designed for this situation: Device channels of CMS management exceeds 36 (or images of all channels are not totally displayed owing to lack of handling ability of CMS PC).

Loop switching means user watches all the channels through cycle displaying different channels, operation process is as follows:

#### 4.3.1. Loop switching settings

In any area right click to choose [Loop switching settings], as below picture :



Loop switch assign appreances as below picture:

aze name	9333		camera
T- 3	1	add	camera
	9999	modify	Group001:IP_CAMERA:Camera01 Group001:IP_CAMERA2:camera01
	888	delete	Group002:120:Camera01
		uttette	
		move up	
		move down	
		display mode	
		◯1 view ⊙4 views	
		○9 views ○16 views	
		○25 views ○36 views	
Index	camera		
1		camera	
3			
4		delete camera	
		clear	
		move up	-
		move down	page staying time (second)
			staying time 10 ÷ (10-600) settings

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To set Loop page in window, click "confirm" button to finsh setup

[Add] To add a page.

[Modify] To modify the current page.

[Delete] To delete the selected page.

[Move up] To move up the selected page. If the page is already at the top, then it will not work.

[Move down] To move down the selected page. If the page is already at the bottom, then it will not work.

[View mode] To set up how many images can be viewed on the page. The number of images is the number of the camera you can set on that page.

[Camera Settings] In left window index, choose camera in the list, associate window with this camera

[Delete camera] To delete association the window and camera

[Clear] To clear all cameras associated the current page.

[Move up] [Move down] To adjust camera sequence

[Page stay time (Seconds)] To set the stay time of the selected page during the image Loop (10-600 seconds).

#### 4.3.2. Switching Pagination

In the right side of main interface, the first three command buttons are used to switch pagination, manual switching and auto-cycle page are available, as picture below shows:



In the process of switching pagination, current pagination name displays in the main window.

## 4.4. Forwarding Server

To lower down the load of IP CAM Board and decrease the occupancy factor of network bandwidth, forwarding server is used as the transferring center in order to allow many users to access to one same IP CAM. Please refer to the following steps:

#### 4.4.1. Preparation

Install CMS software in 2 PC, one PC is used as forwarding server, the other is used as Client, 2 PC is connected by network.

Set IP CAM'grouping and names in one PC used as forwarding server, and make Copy Right @ TOSI Tech 21 / 56 sure to connect IP CAM successfully.

#### 4.4.2. Start Forwarding Service

The process is as follows:

Click "Local Settings" button in CMS main interface, as picture below shows:



Choose "Transmit" page in the popping window, as picture below shows:

cal settings				
scheduled recording	recording   alarm	EMail data transfer	recording server	<b>I</b>
_ forwarding settin ▼enable forwar	ngs			
server IP	192.168.0.119	▼ server port:	5000	
multicast IP	234 . 5 . 6 .	7 multicast port	6000	
🔽 receiving de	vice inverting conne	ction maximum users:	100	
⊢ ⊢forwarding chann	le settings			
description	server name	c IP address	port	
Camera01	IP_CAMERA	1 192.168.0.209	4000	
camera01	IP_CAMERA2	1 192.168.0.118	4005	
Camera01	120	1 192.168.0.120	4000	
forwarding s	ettings [	forwarding image dada	Set	
copy settings to	all cameras		▼ Copy	
try, seconds to	Jarr calleras	· .		
		ОК	Cancel a	apply

Select "Start Forwarding", choose Any(0.0.0.0) from "Server IP" means all IP address(aim to multi-IP address network PC) or any IP address in the list. Input port of forwarding server in "Server Port" (e.g.: 5000), "Multicast address" and "Multicast port" adopt default (it is not available when video connection by multicast protocol in the LAN); Select "backward link of receiving device" means to receive requests from

forwarding server when login of DVS device (no supply function of connection of forwarding server by current IP CAM); "Max user limit" means quantity of Clients who are allowed to access to forwarding server on-line simultaneously (default is OK).

Select "Setup of forwarding parameter" means to allow Client to setup parameters of device by forwarding server; forwarding server connects this device automatically when a Client requests to log into this device through forwarding server, and no connection between forwarding server and this device. Otherwise, connection between forwarding server and this device must be done beforehand.

Select "Forwarding video data" means to allow Client to monitor video by forwarding server, click "Copy" button to copy onto other channels.

When finished, click "Confirm" to quit, now forwarding service is run.

#### 4.4.3. Connect device by forwarding server

Need to fill in correct parameters when adding devices into Client PC, as picture below shows:

group settings the same as the name properties 付 Group001 of forwarding server 🗊 IP\_CAMERA device name IP\_CAMERA2 🛅 CameraOl TP\_CAMERA2 device URL 192.168.0.118 IP Adds of forwarding server 🛅 camera01 🗄 🚮 Group002 device port 4005 Port of forwarding server number of channels 1 DI count 1 DO count 1 User name of forwarding user name admin server password: \*\*\*\*\* Password of forwarding attention: add one group at least!!! server Cancel OK add modify seach device name IP address port c. subnet mask gateway multicast I < > search 0% add

When finished, click "Confirm" to quit.

Now can connect device in Client PC by forwarding server, the process is the same as direct devices' connection.

#### 4.5. Video Server

Video Server is one function, which is used to store plenty of video data in PC and play video by remote Client.

#### 4.5.1. Preparation

Install the software of Surveillance center in 2 PC, one PC is used as Video Server, the other is used as Client, 2 PC is connected by network.

Set devices' grouping and names in one PC used as Video Server, and make sure to connect the devices successfully, and to run local video record by Surveillance center, and confirm there are video files in the PC used as Video Server.

#### 4.5.2. Start Video Service

Open video service from the computer of video server as follows:

Click Local Settings button from the main interface of security center, as picture below shows:



And to choose page of video server in the popping window, as picture below shows:

local settings				×
scheduled recording recor	ding alarm EMs	il 🛛 data transfer	recording server	- <b>- - -</b>
recording server setting	;5			
enable recording serv	rer			_
server IP   192.168.	0.119 💌	server port	6000	
L				
		OK	Cancel	apply

Select "Start Archiver", choose Any(0.0.0.0) from "Server IP" means all IP address(aim to multi-IP address network PC) or any IP address in the list. Input port of video server in "Server Port" (e.g.: 6000), this port must be different with the port of forwarding server, when forwarding service and video service are run in the same PC.

When finished, click "Confirm" to quit, now the video service is run.

## 4.5.3. Play Video from Video Server

Set the device parameters in the client's computer, when adding the devices, make

sure that name of server is the same as name of video server. As the picture below shows:

<pre>Inc same as name of video server device UBL 192 188 0 118 device UBL 192 188 0 118 device port 4005 number of channels [ DI count [ DO count [ DO count [ User mase admin parsword: ***** settention: edd one group et leest!!! OK Cancel edd modify search device reme IP eddress port c submet mark gateway multicest I search device reme 0% edd</pre>	group settings		×	The second second second
<pre>device has [1</pre>	Group001	properties	********	video server
device port 4005 number of channels I DI count I DD count I user name edmin password: #**** stathion: add one group at least!!! OK Cancel edd modify seach device TP address port c subnet mask gateway multicast I search 0% add	ing Camera01 ing IP_CAMERA2 ing camera01	device URL 192.168.0.118		
<pre>stention: add one group at least!!! DK Cancel add modify search device search 0% add </pre>	B- Group002	device port 4005		
II count   II count   II count   II count   II count   II user name admin   password:   *****		number of channels 1		
DU count 1 user name admin password: ***** OK Cancel add modify seach device name IP address port c subnet mask gateway multicast I search 0% add		DI count 1		
user name admin   password: *****   attention: add one group at least!!!   OK   Cancel   add   modify   seach device   name   IP address   port   subset mask   gateway   multicast I   search   0%		D0 count 1		
password: *****  stention: add one group at least!!!  OK Cancel add modify  seach device  name IP address port C subnet mask gateway multicast I  search 0% add		user name admin		
sttention: add one group at least!!! OK Cancel add modify seach device name IP address port c subnet mask gateway multicast I search 0% add		password: ****		
attention: add one group at least!!!   OK   Cancel   seach device     name   IP address   port     c   subnet mask   gateway   multicast I      search   0%     add				
search device   name IP address   port c subnet mask   gateway multicast I	attention: add one group at least!!! OK Cancel	add modify		
search         0%         add	name IP address port c.	subnet mask gateway multicast .	Ĩ.	
search 0% add				
search 0% add				
search 0% add				
search 0% add				
search 0% add	<			
	search 0%	add		

When finished, click "Confirm" button to quit.

Now it is ok to play video in the client's computer through the video server, please refer to 4.6.

# 4.6. Remote File

Right Click to choose **[Remote File]** in the Image window, the picture is as follows:

loop switching settings		
full screen		
page display 🕨		
group settings		
delete preview window		
connect image		
disconnect image		
start recording		
stop recording		
snapshot		
log on		
log off		
device settings		
remote file		
Check Alarm		
UnCheck Alarm		
page control 🕨 🕨		

The interface of Remote File is as follows:

remote file			
00:00:00		v sear server user : devi chan file t start t end t 00:00:00	ch in the recording s r IP 192.168.0.119 server 6000 name admin password ice: IP_CAMERA2 select anel 1 2 3 4 type video file v time 2009-8-11 00:00 time 2009-8-11 23:59 search
file name	file size(MB)	playing time	
			0 %

Remote File Search, Play-back and Download are operated in the window.

[Search from Video Server] Select it to check the video files of the channel from the video server, otherwise to check the video files saved in the disk of the device terminal. Input the video server address in "Server Address"; input the port of video server in "Server Port"; input the user name of video server in "User Name"; input the password of video server in "Password".

[Server] Input name of the device to be searched, left click [Choose] to choose one of the added devices to search.

[Channel] Choose channel No.of video file.

[File Type] Choose the file type: Video file and JPEG file are available.

**[**Start Time **]** Input start time of Search.

[End time] Input end time of search.

[Search] Start to search the appointed file, list below displays all related file

information; double click one file, or choose one file and click 🕨 to play this file.

[Download] Download the appointed file to local PC; download speed displays on the progress bar.

## 4.7. Local Settings

*Click the* **[**Local Settings**]** button **(**, the following window will pop up:

local settings
regular    user    scheduled recording    recording    alarm    EMail    data transfer    recordi
current language English (U.S)
auto connect image while program running
📃 auto log on DVS while program running
📃 show Electronic map on another monitor (need dual video card)
🔽 log on with the current user name and password when the program is started next time
show snapshot when switching page
✓ show the last frame picture when the network is dis, 180 🔹 second
auto reconnect times
buffer frame auto adjust 💌 the smaller value the less delayed, the more
log file
log file E:\work\DVSImageCenter\CMS\DVSImageClies
days to save log manually delete 💌
snapshot
○ saved as bmp file
OK Cancel apply

There are eight pages: [Regular], [User], [Scheduled recording], [Recording], [Alarm], [EMail], [Data Transfer], [Recording Server].

#### 4.7.1. Regular

The window of regular settings is same as the above.

1. **Current selected language ]** : This is to choose the language of the program. It has three built-in languages: Simplified Chinese, Traditional Chinese, and English. The source file is in the installation directory \Language folder. You can add your own language. The default is the same language as it of your operating system. The program will search language automatically when it starts. You can also choose your

own language.

- 2. [Auto connect video while program running]: To connect the video of image when the program starts.
- 3. 【Auto login DVS while program running】: To automatically login the front devices.
- Lectronic map shows on another monitor (require dual video card support) : If your PC has two video cards, the electronic map can be displayed on the other monitor so the main window will not be affected.
- 5. **(**Use the user and password to login at next time **)** : To save your user name and password and automatically login with them when the program starts next time.
- 6. **(**Show snapshot when switch page **)** : To take snapshot from the front camera when you manually rotate pages and display it in the window.
- 7. 【Auto reconnect times】: To reconnect the network with the number of time you set when it is disconnected. When the connection reaches the number of time, the program will not connect the front device any more.
- 8. **[**Frame buffer count **]** : To set the number of frames of video buffer. The less frames the less delay of video. But it may be stopped when the network bandwidth is not good. The more frames the more delay of video. But it is much smoother.
- 9. [Log file]: To set the save path of the log files and the days to save the log file.
- 10. **[Snapshot]** : To set the format of the snapshot, and the quality of JPG format.

## 4.7.2. User

The window of local user is as follows:

local settings	
regular user scheduled recording reco	ording 🛛 alarm 🗍 EMail 🗍 data transfer 🛛 recordi 💶 🕨
admin	authorization switch and rotation settings switch and rotation map settings group settings local settings log search log on device device settings connect image snapshot start recording clear alarm window allocation alarm on/off PT7 control
user name admin	▼DO control ▼exit system
re-type password	
add modify	delete OK Cancel apply

This is to add, delete, and modify the users and their authorization.

Notes: Only the administrator can delete or modify other users. Users can only change their own passwords.

## 4.7.3. Scheduled Recording

The window of scheduled recording is as follows:

local settings					×
regular user camera	scheduled recording	recording 🗍 🗧	larm   EMail    da	ata transfer	recordi 💶 🕨
description	server name	channel	IP address	port	
Camera01	IP_CAMERA	1	192.168.0.209	4000	
camera01 Comoro01	IP_CAMERA2	1	192.168.0.118	4005	
Camer a01	120	1	152.100.0.120	4000	
recording time		-			
📃 everyday	0:00: 🕂 0:00: 🚔	0:00: 📫	0:00: 🛨		
📃 sunday	0:00: + 0:00: +	0:00: 🛟	0:00: 📫		
monday	0:00: 0:00: -	0:00: 🛟	0:00: 📫		
🔄 tuesday	0:00: 0:00: -	0:00: 🛟	0:00: 📫		
wednesday	0:00: + 0:00: +	0:00: 🛟	0:00: 🛨		
🔄 thursday	0:00: + 0:00: +	0:00:	0:00: 📫		
🗌 friday	0:00: 📫 0:00: 📫	0:00: 🛟	0:00: 📫		
🔲 saturday 🗍	0:00: 📫 0:00: 📫	0:00:	0:00:	Set	
copy settings	to: all camera	5	•	copy	
			DK Car	ncel	apply

This is to set the recording time for each camera. You can set two time periods every day. The schedules can be copied for selected cameras. Click the **[OK]** to save the settings.

## 4.7.4. Recording

The window of record is as follows:

local	setting	s					
reg	ular 🛛 user	Scheduled recordin	g recording ala	rm    EMail    data t	ransfer    recordi 💶 🕨		
dis	sk for						
d	isk	% free capacity	free capacity	total capacity			
	<b>_</b> C:\	66%	26080M	39232M			
	<b></b> D:\	62%	24480M	39232M			
	E:\	81%	32144M	39268M			
	<b>F</b> :∖	63%	24772M	39260M			
1	1:						
r	ecording —						
(	💽 time limi	t no	bigger 60	second			
(	) file size	limit no	bigger 1	M bytes			
	Mo priger   m proce						
	if disk spa	ce is not enough: 🤇	) delete previous	file:() stop recordi	ng		
			OK	Cancel	apply		

- When you save recording on the hard drive, you can choose which disk to save. Click the [OK] to save your settings.
- While not enough disk space is to delete previously saved files when the hard drive is full.

Notes: previous files are those saved by 0:00 am on that day.

- 3. Saving path: root \DVSFile\date\DVS IP address (port)\ CH\_0X\record
- 4. **[**Time Limit **]** is to set the time of recording.

#### 4.7.5. Alarm

The window of alarm is as follows:

local settings	×
regular user scheduled recording recording alarm EMail data transfer recordi	Þ
alarm action	
auto clear vauto clear alarm auto clear alarm time 10 second	

[ Alarm sound ] : To choose the sound of alarm. Click 💿 to choose the sound you like.

【Alarm action】: To set the alarm-triggered actions, including Playing Sound, Popup Electronic map, Popup Alarm information dialog, Send email, Connect video, and Record, etc. You can also set the Record duration time and prerecord time.

[Alarm clear]: To automatically clear alarm. When the alarm is not triggered again during the set time period, the program will delete the alarm automatically.

#### 4.7.6. EMail

The window of Email is as follows:

cal settings					
regular    user    sch	eduled recording	record	ing alarm E	Mail data trans	fer   recordi 💶 🕨
device					
server name	IP address	port	group		
IP_CAMERA	192.168.0.209	4000	Group001		
IP_CAMERA2	192.168.0.118	4005	Group001		
120	192.168.0.120	4000	Group002		
SMTP server			sender email		
user name			password	, 	
recipient			- CC		
anail title			encil content		
email cicle			email concent	1	
					test sending
motion dete	]detector ala: [	vi deo	lost 🗌 conne	ection faile	Set
copy settings to:				• copy	
			OK	Cancel	apply

You can set the Email on this page, including various Email address, receivers, senders, subjects, etc. The mail content is valid only when sending test email. The mail content will change according to the type of alarm when it is triggered by the alarm.

You can set the condition to trigger the email alarm: motion, probe alarm, video lost, and connect failed.

Note: The email is sent by SMTP (Simple Message Transfer Protocol). Make sure your mail server should support SMTP.

## 4.7.7. Data Forwarding

Please refer to 4.4.

## 4.7.8. Video Recording Server

Please refer to 4.5.

## 4.8. Electronic Map

Click [Electronic map] button , the following window will pop up:



The electronic map shows the location of every camera and detector. When there is alarm, the electronic map will pop up, and the alarming camera or detector will flash if it is marked on the map.

## 4.9. Electronic Map Setup

Click the [Elecmap setup] button the following window will pop

up:



You can mark the cameras and detectors on the map so people can clearly see them. First you should make an electronic map by yourself. On the map list, you click the right key of the mouse, choose "Add" to add this map and name it. Double click its name then you can open the map.

After adding the electronic map, you can create cameras and detectors on it. You can see its video window when you click the camera on the electronic map.

After you have the electronic map, it will pop up when there is alarm and the alarming camera or detector will flash.

# 4.10. Review Log

Click the **[**Review Log **]** button **[**, the following window will pop up:

1-08-11       2009-08-11 15:55:53 IP_CAMERA       admin       logon is successful!         1       admin       channel connection co         2009-08-11 15:55:53 IP_CAMERA-XCamera01       1       admin       channel connection co         2009-08-11 15:55:53 IP_CAMERA-XCamera01       1       admin       channel connection co         2009-08-11 15:55:53 IP_CAMERA-XCamera01       1       admin       disconnectimect         2009-08-11 15:55:59 IP_CAMERA2->camera01       1       admin       channel connection co         2009-08-11 15:55:59 IP_CAMERA2->camera01       1       admin       disconnection co         2009-08-11 15:55:24 IP_CAMERA2->camera01       1       admin       disconnected         2009-08-11 16:55:24 IP_CAMERA2       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA2       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA       admin       disconnected         -05-19       -05-19       -05-19       -06-06       -06-06	time	name	channel	user	description
Logon 1 2009-08-11 15:55:53 IF_CAMERA-XCsmers01 1 admin channel connection co 2009-08-11 15:55:53 IF_CAMERA-XCsmers01 1 admin disconnect image 2009-08-11 15:55:59 IF_CAMERA2->csmers01 1 admin channel connection co 2009-08-11 15:55:59 IF_CAMERA2->csmers01 1 admin disconnect image 1008-04 2009-08-11 15:55:24 IF_CAMERA2->csmers01 1 admin disconnected 2009-08-11 16:05:24 IF_CAMERA2 2009-08-11 16:05:24 IF_CAMERA2 2009-08-11 16:52:07 IF_CAMERA2 2009-08-11 16:52:07 IF_CAMERA2 2009-08-11 16:52:07 IF_CAMERA 2009-08-11	-08-11 2009-08-11 15:	:55:53 IP_CAMERA		admin	logon is successful!
1arm 1       2009-08-11 15:55:57       TP_CAMERA->Camera01       1       admin       disconnect image         2009-08-11 15:55:59       TP_CAMERA2->camera01       1       admin       logon is successful!         108-04       2009-08-11 15:55:59       TP_CAMERA2->camera01       1       admin       disconnect image         108-04       2009-08-11 15:55:20       TP_CAMERA2->camera01       1       admin       disconnect image         2009-08-11 15:55:21       TP_CAMERA2->camera01       1       admin       disconnect image         2009-08-11 15:55:20       TP_CAMERA2       admin       disconnected         2009-08-11 16:05:24       TP_CAMERA2       admin       disconnected         2009-08-11 16:05:207       TP_CAMERA2       admin       disconnected         2009-08-11 16:52:07       TP_CAMERA       admin       disconnected         2009-08-11 16:52:07       TP_CAMERA       admin       disconnected         2009-08-11 16:52:07       TP_CAMERA       admin       disconnected         105-19       IP_CAMERA       admin       disconnected         105-19       IP_CAMERA       IP_CAMERA       admin       disconnected         105-19       IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA       <	ogon 1 2009-08-11 15:	:55:53 IP_CAMERA->CameraO1	1	admin	channel connection co
14.0 m       2009-08-11 15:55:59 IP_CAMERA2->camera01       1       admin       logon is successful!         2009-08-11 15:55:59 IP_CAMERA2->camera01       1       admin       channel connection co         1-06-04       2009-08-11 16:55:24 IP_CAMERA2->camera01       1       admin       disconnected         2009-08-11 16:55:24 IP_CAMERA2->camera01       1       admin       disconnected         2009-08-11 16:55:24 IP_CAMERA2       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA2       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA2       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA       admin       disconnected	2009-08-11 15:	:55:57 IP_CAMERA->CameraO1	1	admin	disconnect image
Johnson         2009-08-11         15:55:59         IP_CAMERA2->camera01         1         admin         channel connection co           1-08-04         2009-08-11         15:55:59         IP_CAMERA2->camera01         1         admin         disconnection co           1-08-04         2009-08-11         16:55:24         IP_CAMERA2         admin         disconnected           2009-08-11         16:55:24         IP_CAMERA2         admin         disconnected           2009-08-11         16:55:27         IP_CAMERA2         admin         disconnected           2009-08-11         16:55:07         IP_CAMERA         admin         disconnected           2009-08-11         16:55:07	2009-08-11 15:	:55:59 IP_CAMERA2		admin	logon is successful!
1-08-04       2009-08-11       15:56:26       IP_CAMERA2->camera01       1       admin       disconnectinage         1-06-08       2009-08-11       16:05:24       IP_CAMERA2       admin       disconnected         2009-08-11       16:05:24       IP_CAMERA2       admin       disconnected         2009-08-11       16:05:25       IP_CAMERA2       admin       disconnected         2009-08-11       16:05:207       IP_CAMERA2       admin       disconnected         2009-08-11       16:05:207       IP_CAMERA2       admin       disconnected         2009-08-11       16:05:207       IP_CAMERA       admin       disconnected         2009-08-11       16:05:207       IP_CAMERA       admin       disconnected         -005-19       IP_CAMERA       admin       disconnected         -005-19       IP_CAMERA       IP_CAMERA       admin       disconnected         IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA         IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA         IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA         IP_CAMERA       IP_CAMERA       IP_CAMERA       IP_CAMERA	onnect 2009-08-11 15:	:55:59 IP_CAMERA2->camera01	1	admin	channel connection co
1-06-17       2009-08-11 16:05:24 IP_CAMERA       admin       disconnected         2009-08-11 16:05:24 IP_CAMERA2       admin       disconnected         1-05-07       2009-08-11 16:52:07 IP_CAMERA2       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA2       admin       disconnected         1-05-19	-08-04 2009-08-11 15:	:56:26 IP_CAMERA2->cameraO1	1	admin	disconnect image
P-06-08       2009-08-11 16:52:07 IP_CAMERA2       admin       disconnected         2009-08-11 16:52:07 IP_CAMERA2       admin       disconnected         P-05-19       2009-08-11 16:52:07 IP_CAMERA       admin       disconnected         P-05-19	-06-17 2009-08-11 16:	:05:24 IP_CAMERA		admin	disconnected
2009-08-11 18:52:07 IP_CAMERA2 admin disconnected 2009-08-11 18:52:07 IP_CAMERA admin disconnected 	-06-08 2009-08-11 16:	:05:24 IP_CAMERA2		admin	disconnected
2009-08-11 16:52:07 IP_CAMERA admin disconnected	2009-08-11 16:	:52:07 IP_CAMERA2		admin	disconnected
	2009-08-11 16:	:52:07 IP_CAMERA		admin	disconnected

Choose the reviewing type (by date or by search), input the start date and end date, the type of log, then click the **[**Search **]** button. The list will show all the search result.

## 4.11. Video Playback

Click [Video Playback] button [20], the following window will pop up:





User can search the recording files and snapshot pictures.

User can select playback multi files continuously.



## 4.12. DVS Parameter

Click the **[DVS Param]** button **112**, or click the right key of mouse on the image window and choose **[DVS Param]** on the popup menu, the following window will show up:

system settings	system settings				
network settings	⊢svstem time				
user settings	Keep current da	te and time			
video settings	OSync with compu	ter time			
Video overlav	Computer d	ate: 2009- 8-11			
motion detection	OManual	.me. ]17.23.40			
DT	Date:	2009- 8-11	•		
DI Settings	Time:	17:22:04	-		
DO settings	O Automatic				
disk settings	NTP server		-		
recording	time zone				
scheduled recording					Set
terminal settings	-system settings-				2 <del>1</del>
Maintenance	device name	IP_CAMERA	device serial	20090410000006	_
	language	English (U.S)	channel count	1	-
			10020	2000/08/25	_
	version	p1.03.01.08	build date	2008/00/23	Set
	PAL/NTSC				
11	PAL	O NTSC			Set

#### 4.12.1. System Parameter

The system parameters are shown as above. You can set the system clock, NTP, video standard, device name, and language, etc.

#### 4.12.2. Network Parameter

The window of network parameters are as follows:

system settings	network settings	
<pre>&gt;network settings user settings video settings Video overlay motion detection DI settings DO settings</pre>	regular o Network Type O LAN O Get IP address automatically O Use fixed IP address IP address 192.168.0 .118 subnet mask 255.255.0 gateway 192.168.0 .1 DNS IP address 202.96.134.133	ther DDNS FTP EMail P2P 无线网络(WIFI) V enable DDNS provider www.3322.org domain name tositest.3322.org server URL www.3322.org
disk settings recording scheduled recording terminal settings Maintenance	PPPoE user name password Ports data port 4005 WEB port 85	user name cario password ******
	Mac addr MAC address 80-10-00-81-10-0B Multicast multicast IP 224 . 0 . 0 . 1 multicast port 4000 Set	Set

You can set the IP address of DVS, Subnet mask, Gateway, MAC address, data port, Web port, and DHCP, etc. If the DVS is in a LAN, make sure its IP address does not conflict with the IP of other devices in the LAN.

[Web port] : To change of the web port of IE browser provided by Web Server of the DVS.

**[DDNS]**: When the DDNS function is enabled, DVS will report to DDNS its IP address (LAN) of the dynamic IP address received from router. You should input the IP address or the domain name of the DDNS. When the DDNS is a domain name, make sure the DNS IP address is correct.

[Enable Center mode]: You should set the correct center IP address and service port, if you want the front camera to take snapshot or RS232 to collect data and the DVS is connected with the centrer.

Video Server Network Guide:

The video server uses the following default ports:

TCP: 80 (Web port), 5000 (data port, TCP data port, talk-back data port)

Multicast port: Multicast start port + channel number (0~3)

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#### 4.12.3. User

ystem settings	user settings			
network settings	_administrator-			
user settings	user name	admin	enable IP Bound	
Video settings	password	****	Start LF address	
motion detection	re-type		end IP address	Sat
DI settings		h.		Sec
DO settings	operators user number	1	💌 🗌 enable IP Bound	
disk settings	user name		start IP address	
recording	password	[	end IP address	
scheduled recording	re-type			Set
terminal settings	5			
Maintenance	guest		enable TP Bound	
	user name	guest	start IP address	
	password	guest	0 0 0	
	reture	r	end IP address	
	It type			Set

The User parameters are as follows:

You can create 12 user accounts for each DVS. One of them is the administrator, one is the guest, and the rest ten accounts are operators. The operators can change their user names or passwords. The administrator and the guest can only change their passwords. The administrator can set the DVS while the operators and the guest cannot change any settings.

Default administrator: admin	password: <b>admin</b>			
Default guest name: guest	password:: guest			
Note: both the user name and password are case sensitive.				

## 4.12.4. Audio/Video Parameter

evetam sattings		
system settings	video settings	
network settings		
user settings	name	Set
video settings	Video settings encode settings	
Video overlay	bit rate type	
motion detection	image size D1	
DI settings	key frame interval 100 (1-100)	with 12m
DO settings	frame rate 25 (PAL: 1-25; NTSC: 1-3	
disk settings	maximum bit rate 1024000 (16000-4096000)	
recording	maximum quant [3] (2-31)	
scheduled recording	Set	Andia satting
terminal settings	Image settings CMOS settings	encode audio
Maintenance		Input type:
		Iine in Omicrophone
		Set

The window of video parameters is as follows:

You can set the video for each channel: name, title, Logo enabled, key frame interval, frame rate, Mask area, and video parameters (luminosity, chromatograph, contrast, and saturation). If it is a CMOS camera, you can set Flip, Mirror, and Frequency (50Hz or 60Hz).

Audio Parameters Setup: Audio Decode and Input type (Linearity input or Microphone).

Audio/Video Parameters Setup is similar to the above. We do not describe it again here.

# 4.12.5. Video Overlay

ttings	
system settings	Video overlay
system settings network settings user settings video settings Video overlay motion detection DI settings DO settings disk settings recording terminal settings Maintenance	Video overlay OSD ♥ time ♥ bit rate title LOGO ♥ Enable logo File: E:\资源\l\logo.bmp X: 500 Y: 20 Size:96*50 maximum: attention: higth and width of LOGO image will be cutted in and the position of logo and OSD can't be Set Video cover Video cover Vide
changes need to save	58VP

The window of Video overlay is as follows:

To set up the parameters of Video overlay in each channel: Time overlay, Code rate overlay, Title overlay, Logo overlay and Video overlay.

#### 4.12.6. Motion

system settings	motion detection	
network settings		3.1
user settings	channle   1	detection area
video settings	everyday 00:00 + 23:59 + 00:00 + 23:59 +	
Video overlay	sunday 00:00 + 23:59 + 00:00 + 23:59 +	
motion detection	monday 00:00 - 23:59 - 00:00 - 23:59 -	Contraction of the Contraction o
DI settings	V tuesday 00:00 + - 23:59 + 00:00 + - 23:59 +	
DO settings	wednesda 00:00 + - 23:59 + 00:00 + - 23:59 +	
disk settings	thursday 00:00 + 23:59 + 00:00 + 23:59 +	
recording	friday 00:00 + 23:59 + 00:00 + 23:59 +	sensitivi low high
scheduled recording	saturday 00:00 + - 23:59 + 00:00 + - 23:59 +	show grids clear select Set
terminal settings	trigger output alarm	
Maintenance	V output :	duration 10 second (
	associate recording	duration 2 minute(
	associate snapshot V Enable snapshot	snapshot 10 - second (
	○ send Email ⊙ send to FTP	O do not sen
		Set

The window of motion detection parameters is as follows:

You can set the motion detection parameters of each channel here: motion detection area (The monitoring window is separated into 11 x 9 pieces. You can single click the piece you want to detect to set or remove detection), working hours, sensitivity, auto alarm deletion (alarm delay time), associated output, associated record, associated snapshot, and Send Email.

note: this function is not recommended as the JPG file created by snapshot will occupy resources of DVS and the network.

## 4.12.7. Digital Input Settings

system settings	DI settings		
network settings			
user settings	2	detector	
video settings	test time	00.00 + 00.50 +	
Video overlay			
notion detection			
DI settings	monday 00:00 23:59 -		
DO settings	tuesday 00:00 23:59 -		
dick sattings	✓ wednesd: 00:00 ÷ - 23:59 ÷	00:00 + 23:59 +	
ursk settings	thursday 00:00 ÷ == 23:59 ÷	00:00 + 23:59 +	
recording	friday 00:00 + - 23:59 +	00:00 + - 23:59 +	
heduled recording	saturda: 00:00 🕂 23:59 🕂	00:00 - 23:59 -	
erminal settings	trigger output alarm		
Maintenance	🗹 output :		duration  10 🔤 second
	associate recording		duration 2 minute
	arraniata manshat		
	Enable snapshot		snapshot 10 - second
	⊙ send Email ○ send to F.	🔘 do not s	ien:
			Set

The window of Digital Input settings parameters is as follows:

You can set every probe here: probe name, detect time period, associated output,

associated record, associated snapshot, and Send Email.

Note: this function is not recommended as the JPG file created by snapshot will occupy resources of DVS and the network.

# 4.12.8. Digital Output Settings

network settings         user settings         video settings         video overlay         otion detection         DI settings         D0 settings         isk settings         recording         isk settings         recording         saturday       00:00 +	network settings         user settings         video settings         Video overlay         otion detection         DI settings         disk settings         isk settings         recording         heduled recording         erminal settings         Maintenance	system settings	DO setting	gs							
user settings       image: image	user settings         video settings         Video overlay         motion detection         DI settings         disk settings         isk settings      <	network settings	1	-				T.		-	 
video settings         Video overlay         motion detection         DI settings         isk settings         disk settings         recording         friday       00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         00:00 +         23:59 + 00:00 +         00:00 +         00:00 +         23:59 + 00:00 +         00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:59 + 00:00 +         23:5	video settings         Video overlay         motion detection         DI settings         D0 settings         disk settings         recording         cheduled recording         erminal settings         Maintenance	user settings	Select DU.	J1		11.911	ie.				
Video overlay       sunday       00:00 23:59 - 00	Video overlay         motion detection         DI settings         D0 settings         disk settings         recording         therade       00:00 +	video settings	a	med cime	00:00	- 23:59 -		<u></u>	- 23.59 -	<b>T</b>	
notion detection         DI settings         D0 settings         disk settings         recording         friday       00:00 23:59 - 00:00 23:59 - 00:00 23:59 - 00:00 23:59	motion detection         DI settings         D0 settings         disk settings         recording         theduled recording         erminal settings         Maintenance	Video overlay				- 23:59			23:59 -		
DI settings       1 tuesday       00:00 + 23:59 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:00 + 00:	DI settings         D0 settings         disk settings         recording         heduled recording         erminal settings         Maintenance	notion detection		Monday		- 23:59			23:59 -		
D0 settings         disk settings         recording         cheduled recording         terminal settings	D0 settings         disk settings         recording         cheduled recording         cheduled recording         saturdat       00:00 +	DI settings		 	00:00	- 23:59		00:00	23:59 -	-	
disk settings	disk settings       i thursday       00:00 i i i i i i i i i i i i i i i i i	DO settings		wednesd:	00:00	- 23:59 -		00:00	23:59 -	3	
recording       friday       00:00 23:59 - 00:00 00	recording         index friday         friday         00:00         index friday         index friday         00:00         index friday         index friday         00:00         index friday         00:00         index friday	disk settings			00:00 -	- 23:59 -		00:00	23:59 -		
cheduled recording terminal settings	cheduled recording terminal settings Maintenance	recording			00:00 -	- 23:59 -		00:00	23:59 -		
terminal settings	terminal settings Maintenance	cheduled recording			00:00	- 23:59		00:00	23:59 -	-	
	Maintenance	terminal settings		-	1	1	,		Jeesee as		
Maintenance Set		Maintenance							Se	t	

The window of Digital Output Settings (alarm annunciator) is as follows:

You can set the name of annunciator and its working time period. Within the working hours, the annunciator can be triggered by motion detection or other probes, if they output alarms.

## 4.12.9. Disk Parameter

settings									
system settings	disk se	tings							
network settings									
user settings	disk no:	1							
video settings	partition								Ketresh
Video overlay	parti	"MOUNT"	format	totoa	used c	free c	used c	partit	Format
motion detection	U	yes	yes	476	263	213	55	data p	
DI settings									
DO settings									
b disk settings									
recording									
scheduled recording	format pro	PASS							
terminal settings		6		0%					
Maintenance									
No changes need to save	s							save settings	Close

The window of Disk parameters is as follows:

You can see the information about the disk installed on the DVS, and make partition or format it.

## 4.12.10. Record

system settings	recording
network settings	recording settings
user settings	when there is no enough 📀 delete old files 🔿 stop recording
video settings	✓ record audio (only effect when encoding audio)
Video overlay	
notion detection	
DI settings	
DO settings	Set
disk settings	
recording	mannual recording
cheduled recording	
terminal settings	
Maintenance	recording time 3
	start recording stop recording

The window of video recording is as follows:

You can set the video recording and manually recording control here.

## 4.12.11. Scheduled Recording

system settings	scheduled recording	
network settings user settings video settings	recording time	
Video overlay	sunday 00:00 - 23:59 - 23:59 - 23:59 - 23:59 -	
notion detection	monday 00:00 23:59 - 00:00 23:59 -	
DI settings	V tuesday 00:00 + - 23:59 + 00:00 + - 23:59 +	
DO settings	wednesday 00:00 + - 23:59 + 00:00 + - 23:59 +	
disk settings	thursday 00:00 + - 23:59 + 00:00 + - 23:59 +	
recording	friday = 00:00 + 23:59 + 00:00 + 23:59 + 23:59 + 12:	
heduled recording	saturday 00:00 23:59 - 00:00 23:59 -	
Maintenance	Set	

The window of scheduled recording is as follows:

You can set the video recording schedules here.

#### 4.12.12. Terminal Parameter

system settings	terminal se	ttings			
network settings					
user settings					
video settings	COM settings			-PTZ protocol	
Video overlay	COM	RS485	<u> </u>	protocol file	
motion detection					
DI settings	baud rate	2400	<u> </u>		upload
DO settings	data hit				
disk settings	data Dit	10	<u> </u>	channel 1	
recording	stop bit	1	-	protocol tophine. cod	🔻 🔽 refresh
scheduled recording				PTZ addr 1	
eterminal settings	check bit	none	•	PTZ speed 30	
Maintenance					
	flow control	none	<u> </u>		
					Set
			Set		

The window to set DVS terminal parameters is as follows:

You can set the DVS COM ports and download Pan/Tile protocols to DVS. Also you can set the IP address of each channel for the Pan/Tile decoder.

The built-in protocol which is downloaded from the Pan/Tile should have correct bit rate, and data bit of RS485 COM ports.

The bit rate and data bit of RS232 COM ports should be correctly set if you use RS232 to collect data.

## 4.12.13. DVS System Maintenance

system settings         network settings         user settings         video settings         Video overlay         motion detection         DI settings         disk settings         upgrade         file name:         overall progress         0%         overall progress         0%         upgrade	ttings	
network settings user settings video settings Video overlay motion detection DI settings disk settings recording scheduled recording terminal settings v Maintenance Uggrade uggrade terminal settings vuggrade uggrade terminal settings vuggrade uggrade terminal settings vuggrade uggrade terminal settings vuggrade uggrade terminal settings vuggrade uggrade terminal settings verall progress U% verall progress Verall progre	system settings	Taintenance
user settings       Reboot the device.         video overlay       Reboot         motion detection       Restore         II settings       Restore all settings to factory default.         D0 settings       Restore         disk settings       recording         scheduled recording       file name:         // Maintenance       0%         vuggrade       0%	network settings	Reboot
video settings       Reboot         Motion detection       Restore         DI settings       Restore         disk settings       Restore         gisk settings       upgrade         file name:          verail settings       0%         verail progress       0%         vupgrade       upgrade	user settings	Reboot the device
Video overlay       Rebot         motion detection       Restore         DI settings       Restore         disk settings       upgrade         recording       file name:         scheduled recording          terminal settings       0%         werther file progress       0%         overall progress       0%         upgrade	video settings	
motion detection   DI settings   D0 settings   disk settings   recording   scheduled recording   terminal settings   \Maintenance   Upgrade     upgrade     upgrade     upgrade     upgrade     upgrade     upgrade	Video overlay	Reboot
II settings       Restore all settings to factory default.         D0 settings       Restore         disk settings       upgrade         recording       file name:         terminal settings       0 %         overall progress       0 %         upgrade       upgrade	motion detection	Restore
D0 settings disk settings recording terminal settings > Maintenance upgrade file name:  0 % overall progress 0 % Upgrade	DI settings	Restore all settings to factory default.
disk settings recording scheduled recording terminal settings > Maintenance Upgrade Upgrade (urrent file progress 0% overall progress 0%	DO settings	
recording scheduled recording terminal settings > Maintenance upgrade versel progress 0%	disk settings	Ingrada
scheduled recording terminal settings Maintenance Upgrade Upgrade	recording	file name:
terminal settings Maintenance upgrade	scheduled recording	
Maintenance 0%	terminal settings	current file progress 0%
upgrade	Maintenance	overall progress 0%
upgrade		
		upgrade
o changes need to save Save Clos	o changes need to save	Save Close

The windows of DVS System Maintenance is as follows:

DVS Update: Click [ ... ] button , choose the right update file, and click [ Update ] button to start updati. DVS restarts after update is finished with notice.

[Restart] button: Restart DVS

[Factory default] button : All DVS parameters including Network Parameters are restored to Factory default. The physical IP address will not change. Please be cautious before click this button!

# Appendix I The decode protocols supported by the system

Number	Name of Protocols	Notes
1	AB.COD	
2	ABK2001.COD	
3	AILIC_SAE.cod	
4	DRAGON.COD	
5	EE.COD	
6	HY.COD	
7	JIAJIE_PELCO_D.cod	
8	Kallaite_DOME.cod	
9	KONY_M800CI.cod	
10	KONY_TMCIA.cod	
11	LILIN_PIH_1016.cod	
12	MTR600.cod	
13	NEWCODER.cod	
14	PELCO_D.COD	
15	PELCO_D_AB.cod	
16	PELCO_D_NS_1.cod	
17	PELCO_D_NS_2.cod	
18	PELCO_P.COD	
19	PELCO_P_NS.cod	
20	PELCO_P_WD.cod	
21	SAMSUNG_641.cod	
22	SE300_SHARPEYES.cod	
23	SE600_HY.COD	
24	SE600_PELCOD.cod	
25	SE600_SHARPEYES.cod	
26	SE600S1_HY.cod	
27	SE600S1_PELCOD.cod	
28	SE600S1_SHARPEYES.cod	
29	SONET.COD	
30	SYYT.COD	
31	TCSTD_Y10.cod	
32	TOTAB01.cod	
33	TOTAB01_DOME.cod	
34	Visdom.cod	
35	W110_PTZ.COD	

- 36 YAAN.cod
- 37 YOULIDVR.cod

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## Appendix II Troubleshooting

#### You CANNOT access the IP Camera through DVS Image Center

**Possible reason #1:** network is not connected properly.

Solution: Use PCs to connect the network to test the network. First check the cable connection, and PC virus problem, then ping the IP address of each PC until there is no problem anymore.

**Possible reason #2:** The IP address of the DVS is occupied by other devices.

Solution: Disconnect the DVS and the network. Connect it with a PC. Then reset its IP address properly.

**Possible reason #3:** The IP address of the DVS and the IP Camera may be in different subnet.

Solution: Check their IP address, subnet mask, and gateway to see if they are in same subnet.

Possible reason #4: The web port is changed.

Solution: Contact your LAN network administrator to get the right information of web port.

Possible reason #5: Unknown

Solution: Press the reset button on the back of the DVS to make the DVS to default settings. Then restart it. The default IP address is 192.168.0.250. The subnet mask is 255.255.255.0. And the DHCP is enabled.

#### You CANNOT control the Pan/Tile and camera

Possible reason #1: Cable is not connected properly.

Solution: Reconnect the Pan/Tile or the camera together with the DVS.

Possible reason #2: The decoder protocol, the IP address, or the bit rate is not set properly.

Solution: Double check the settings and make sure they are correct.



You CANNOT hear sound when monitoring

**Possible reason #1:** There is not audio input.

Solution: Check the audio cable connection of the DVS.Possible reason #2: The audio settings of the IP Camera are not openedSolution: Check the audio settings of the IP Camera.

#### 1 The audio quality is poor

**Possible reason #1:** If there is a lot of noise and the sound is distorted, please check whether the audio input is line in. In many cases, when the audio input is not line in (for example, an amplified microphone is used instead), the audio signal will not comply with the input electric level. It leads to saturated distortion. **Solution:** Set the proper line in audio input allowed by the DVS.

#### • Why the data cannot get through the network switch?

Possible reason #1: The IP address is wrong if it is a two-layer switch.Possible reason #2: The port and the MAC address are not bound together.

Possible reason #3: The switch's firewall is not set properly.

**Solution:** When you check about the possible reasons, make sure you connect a PC to the network and type "ping" in the CMD mode. Check the result information. If the PC cannot "ping" the DVS correctly, there must be some problem in the settings. If the IP address is bound with the MAC address, similarly, you should add a new binding of the IP address and MAC address of the DVS in the switch. If the DVS is not included in the switch's firewall, then you should reset the switch's firewall with the correct web ort and the data port of the DVS.

#### **!** Default settings of the DVS

IP address: 192.168.0.250 Subnet mask: 255.255.255.0 Gateway: 192.168.0.1 Data port: 4000 Web port: 80 Multicast: random Multicast start port: random DHCP: enabled

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