4/8/16-ch Standalone

CMS User Manual

For H.264 Digital Video Recorder All rights reserved *All contents of this document may change without prior notice.

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4.4.3 Map Alarm			4.4.1	Change Icon	
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Preface

Central Management Software is a typical client management program providing a common platform to centralize all devices to attain a single unified system. This greatly improves the efficiency of control and operation for all digital video recorders, IP-cameras, etc through the network. This manual will help you to familiarize with the software and master its operation methods. Here we will take DVR connection for example.

The users can use this CMS to control, monitor, and manage multiple DVRs remotely.

Standalone CMS Quick Setup Guide

How to find IP addresses of Standalone DVRs in the same network?



1) After installing the CMS software, IPTool icon IPTool will display on Desktop. Run IPTool and IP

Management tools window will pop-up and it will search all DVRs in the network as shown below.

▶ IP Tool 1.8.0.7									-		_D ×
	Mana	aomo	nt to								
		ageme					1000				
			1								
Device name EDVR	IP Address 192.168.1.51	Subnet Mask 255.255.255.128	Gateway 192.168.1.1	Data Port 6036	HTTP Port 80	MAC 00:18:AE:31:4A:33	DHCP not started	Device Type DVR	firmware version 3.2.0	Software Build 20120625	. Kernel Versi. 20101022
•											
Dev. Name:		IP:	_		DNS1:			 Kernel Ver:			
MAC Addr.:			Mask:		DNS1:			Hardware Ve	. [
								Software Ver:			
Dev. Type:			eway:		Http Port:			Sonware Ver			
Data Port:		Build	d Date:								

2 If you select one of the DVRs in the list, more information will be shown in the bottom section.

			nt to						1.0010		
evice name	IP Address	Subnet Mask	Gateway	Data Port	HTTP Port	MAC	DHCP	Device Type	firmware version	Software Build	Kernel Ve
	132,100,1,31	200.200.200.120	132.100.1.1	0030	00	00.10.AE.31.4A.3	5 Not statted	DVN	0.2.0	20120620	20101022
	EDVR		100	.168.1.51				_	20101022		
ev. Name: AC Addr :	00:18:AE:31:4/	IP:		. 166.1.51	DNS1:			Kernel Ver: Hardware Ver:			
AC Addr.:	DVB		Imask.	.168.1.1	DN52	80		mardware ver.	3.2.0		

Note: Simplified DVR network information can be found using "Search Device" in System Config – Device Manager – Add Device.

► How to add Standalone DVRs in CMS?



① Run CMS and type User Name and Password, the CMS will start with a black channel as below.



② Go to <u>System Config</u> in the bottom right corner menu, and click <u>Add Region</u> icon in Device Manager and type Region name.

	Control	Center		🚽 🔬 🚽 🗙
	Device N	Aanager		Local PC Time
Device		Channel Group	 	2013-07-09 11:04:34
Add Reg	ion Region Config Region Parent Region	Add Region Add Region OK Cancel		System Config : System Config : Device Manager Server Config Map Config Map Config User Manager User Manager Log Query Log Query
Alarm type	Device name	Channel NO.	Time	Export_import local config
				Dive
				E-Map
				System Config
				😪 Video Search
				€ Exit

③ After adding *Region*, it will display under the *Device List*. Follow the instruction as shown in the picture below.

		Control Center			🖌 🖬 🖌
		Device Manager			Local PC Time
	∕	Cha	nnel Group	Î	2013.07.10 07:59:54
2. Click	Add Device			DVR Login info	
1. Select Reg)evice		Device Manager
4.Type DVR i	Server Confi Device Typ Device nam	e Standard device	Login Style By IP or Do User Name : Password : Record width audio for Remarks Cancel 6. Click C	all channel	Local Config Cocal Config Server Config Map Config Map Config User Manager User Manager Log Query Log Query
Alarm type	Device name	Channel NO.	1 Time	1	E-Map
манн урс	Device name	Channel NO.	1 11112		
					System Config
					Exit

Note: You can add more Regions if you have many DVRs in different regions. Also, you can add more Devices (DVRs) in a Region if you have more than one DVR in the Region.

④ <u>Search Device</u> will find and provide information of DVRs in the network as shown below.

		Control Center			🖌 🖬 🖌
		Device Manager			Local PC Time
E 🧇 <	∕		•••	î 1	2013-07-11 08:16:55
- Device List	Server Co Device T Device na Ip or doma Data Port Region Na	Add De	.ogin Style By IP or D User Name : Devi	cclose romain cc Search IP Address: 192.168.1 Subnet Mask: 255.255.255 Gateway: 192.168.1 Data Port: 6036 MAC: 00.18.AE;2C.26.A Device name EDVR	System Config # Device Manager Coal Config Coal Config Server Config Server Config Map Config Map Config User Manager Coal Config Coal Coal Config Coal Config Coal Config Coal Config Coal Coal Coal Coal Coal Coal Coal Coal
					Live
Alarm type	Device name	Channel NO.	Time		E-Map
					System Config
					Video Search
					←

		Control Cente	r.	_		🚽 🗖 🗶 🖻 🗙
		Device Manag	er			Local PC Time
Device List	Î		Channel Group	✓ Î		2013.07-11 08:18:37
						System Config 3
			Add Device			Device Manager
	Server Config Device Type Device name Ip or domain Data Port: Region Name:	Standard device	Login Style User Name Password :	By IP or Domain	nel	Local Config Server Config Map Config User Manager User Manager Export import local config
Alarm type	Device name	Channel NO.	<u> </u>	Time		VX Live
Alarm type	Device name	Channel NU.		Time		E-Map
						System Config
						😪 Video Search
						€ Exit

⑤ Type Device name, IP or domain, Data Port, and Login information in Add Device, and click OK.

⑥ If a DVR is successfully added under a Region, all channels will be shown under the DVR. Click <u>Live</u> to start monitoring.



⑦ If image doesn't show up in each channel, right click on the device name (DVR name) and select Master or Second Steam.

		Contro	l Center		≍ ⊡ ×
SYSTEM		L	ive		Local PC Time
DVS DVF CAMERAD1 CAMERAD2 CAMERAD3 CAMERAD3 CAMERAD4 CAMERAD5 CAMERAD5					2013.07.11 08:21:27 P.1.2 :
↓ Right click an if image does	d choose Maste n't show up				
	<				> + © - + <u>···</u> -
			8	() () e e	Eive
	Alarm type	Device name	Channel NO.	Time	E-Map
					System Config
					Video Search
Device List Channel Group					€ Exit

⑧ Start monitoring!!



How to selectively choose and display channels from multiple DVRs?

If you have more than one DVR in a Region and want to choose certain cameras from each DVR for selective monitoring, you can create a group and assign cameras to it.

① Go to **System Config** – **Device Manager**, and click **Add Group** icon to create a Group as shown below.



2 If a group is added, you will find the group you just created in Channel Group.



③ Select a camera from a DVR, and move it under a Group to the right.

		Control Center			<mark>⊢</mark> ≚ ⊡ ×
		Device Manager			Local PC Time
	1. Select a Cam		PNISGroup PNISGroup POVISGROUP COURTCAMERADI 3. A camera ac		2013.07.11 09:56:58 System Config : Device Manager Cocal Config Server Config Server Config Server Config User Manager User Manager Cog Query Log Query Export, import local config
Alarm type	Device name	Channel NO.	Time	v×	E-Map
					System Config
					😪 Video Search
					← Exit

Six cameras are added from EDVR and EDVR4CH.



④ Go to *Live* and select *Channel Group*.



⑤ Click Yes to switch from list mode to group mode.



6 Right click on a group name, and click **Open Group Preview**.

		Control Center			₹ ⊡ ×
SYSTEM		Live			Local PC Time
Open Group Preview Open Group Preview Open Group Record Start Group Record Stop Group Record Open Group Recopen Group Record Open Group Record Open Group Record	vy				2013.07.11 09:58:37 P.T.Z #
¢					+ + + ® + :::
			N N N N		
Ľ			Channel NO.	Time	E-Map
	, ann apo	ondo namo	Cristino HO.		
	Right click o	n a Group nam	e		
<u> المالية الم</u>	Click Open G	Group Preview			Video Search
Device List Channel Group					← Exit

⑦ Choose an appropriate channel view and Start Group Monitoring!!!



1 Introduction

Central Management Software is a client application designed specially for embedded digital video recorders, network video servers, IP-cameras, and software compressed cards for remote centralized management of multiple devices. In the video surveillance system, the administrator can control video input devices and configure cameras, PTZ, view live images, record, take backups, etc. It possesses three main functions: preview the live site, system configuration, and video search (Covered in section 4).

2 Installation

2.1 System Requirement

Supported Operating System:

Operating system	Comments
Windows XP	Windows XP SP2 or latest; Directx 9.0c or higher
Windows 2000	Windows 2000 SP4; Directx 9.0c or higher
Windows 2003	Windows 2003 server; Directx 9.0c or higher
Windows Vista	Windows Vista; Directx 10.0c or higher
Windows 7	Windows 7 SP2; Directx 10.0c or higher

Supported Browser:

Operating system	Comments
Microsoft Internet Explorer v6.0	IE 6.0 with most updated service pack
Microsoft Internet Explorer v7.0,	IE 7.0 with most updated service pack

2.2 Computer Hardware Requirement

Recommended PC Specifications – 4 channels:

Item	Specification	
CPU	Intel Pentium 3.0 GHz or AMD 3000+	
Memory	1GB	
HDD	160GB	

Recommended PC Specifications – 8 channels:

Item	Specification	
CPU	Intel Core 2 Duo 1.8 GHz or AMD Dual core 3800+	
Memory	1GB	
HDD	250GB	

Recommended PC Specifications – 16 channels:

Item	Specification	
CPU	Intel Core 2 Duo 2.2 GHz or AMD Dual core 3800+	
Memory	2GB	
HDD	250GB	

Notice: The mentioned specifications are provided considering CIF real-time resolution. The AMD chip hyper-3800+ and X64 series are not tested. For real-time live view with CIF resolution, max 25 channels can be played concurrently. For real-time view with D1 resolution, max 6 channels can be played concurrently.

2.3 Installation Process

- a) We recommend that the anti-virus software is disabled before initiating the installation. In addition, the setting of your IE browser must be enabled to download activeX components.
- b) Run the 'Setup.exe' from software CD and the following menu will pop up.



Fig 2.1 Welcome Screen

c) Click 'Next' to enter the next step.

etup	<u>×</u>
Choose Destination Location	
Select folder where Setup will install files.	15
Setup will install ControlCenter in the following folder.	
To install to this folder, click Next. To install to a differe another folder.	nt folder, click Browse and select
C Destination Folder	
Destination Folder C:\Program Files\ControlCenter	Browse
C:\Program Files\ControlCenter	Browse
C:\Program Files\ControlCenter	Browse

Fig 2.2 Choose the Installation Destination

d) The default destination folder for installation is 'C:\Program Files', user can use 'Browse' button to change the destination path. Once the path is selected, click 'Next' to enter the next step.

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Setup	×
Select Program Folder Please select a program folder.	1.
Setup will add program icons to the Program F name, or select one from the existing folders lis Program Folders:	
ControlCenter Existing Folders: Accessories	<u> </u>
Administrative Tools DWS-Net Google Chrome LiveChat Microsoft Office	
PhotoScape PrimoPDF Startup	-
InstallShield	< Back Next> Cancel

Fig 2.3 Choose Type of Folder

e) Click 'Next' to start the installation.

etup		X
Setup Status		1.
ControlCenter Setup is p	erforming the requested operations.	
Installing:		
C:\Program Files\Contro	Center\im4enc.out	
	42%	
nstallShield		
		Cancel

Fig 2.4 Installation Progress Status



Fig 2.5 Setup Complete

f) The installation is completed.

2.4 Uninstalling the Software

There are three methods to uninstall the software.

- 1. User can uninstall the software from Add or Remove programs.
- 2. User can remove the software by using 'Uninstall' icon from the windows menu.
 - (Start \rightarrow Programs \rightarrow ControlCenter \rightarrow Uninstall)
- 3. The program can also be removed by running the software setup and then opting for 'Remove' option.

Setup	×
Welcome Modify, repair	, or remove the program.
	he ControlCenter Setup Maintenance program. This program lets you modify the ation. Click one of the options below.
Modify	
	Select new program components to add or select currently installed components to remove.
🔿 Repair	
F	Reinstall all program components installed by the previous setup.
C Remove	
1	Remove all installed components.
InstallShield —	
	Next > Cancel

3 Login & Exit

3.1 Login

After setting up the Network Video Surveillance System and installing the Control Center program, user needs to login to the Control Center for configuring devices.

Steps for logging in are described below:

	8
Double-click	icon on the desktop, it will pop up 'Create SYSTEM password' dialog box. Refer to
	Create "SYSTEM" password
	User Name : SYSTEM
	New Password: Confirm
	please input email address,password would be sent to this account in case password forgotten
	To Email: test your account settings
	OK Cancel << Options

Figure 3.1 Create SYSTEM password

The default username is 'SYSTEM'. User can create an alphanumeric password (max password length is 32 characters).

Click on the options button to expand the window. An administrator can register an email for receiving an auto generated email with the password in case the password is lost (In order to retrieve the password, a PC would have to be connected to internet).

Fig 3.1.

Click OK button to enter the Login interface. Refer to Fig 3.2 and input the password in the password text box. If the user doesn't remember the password, he/she can press 'Get System Password' button to have the password mailed to the preconfigured email address.



Fig 3.2 Login Interface

Click 'OK' button to enter the Control Center. The Control Center Interface is shown below in Fig 3.3.



Fig 3.3 Control Center Interface

3.2 Exit

There are two ways to exit control center normally.

Click Exit button and then a confirm dialogue will pop up. If confirmed, the application would be exited.
 The user can click button to exit.

4 Functions & Operations

This chapter is divided into 5 parts for the ease of understanding the following features:

- 1. Basic Functions
- 2. Preview
- 3. System Configuration
- 4. E-Map
- 5. Video Search & Backup

In this chapter, we will divide five parts to instruct the functions and specific operations of this software. User can enter the control center to monitor through the Internet, to set parameters, to enable the record, to playback the recorded files, to backup, and so on.

4.1 Basic Functions

After entering the Control Center, user can operate the following functions:

4.1.1 Lock & Unlock

22

'Lock & Unlock' button.

2

Indicates that the Operation Interface is in 'Unlock' state.

Indicates that the Operation Interface is in 'Lock' state.

When current operation interface is in 'Lock' state, the user would need to enter the password to unlock in order to use the Control Center. The user can lock the interface by clicking the lock icon.

4.1.2 Minimize & Maximize

Click to maximize 'Control Center' window. Click to minimize 'Control Center' window or re-size the 'Control

Center' to original size.

4.1.3 Alarm Display

In the alarm display interface, user can view information pertaining to the alarms. It includes: Alarm Type, Device Name, Camera Number, and Alarm Time. Alarm Display List is shown in Fig 4.1 below.

				X I
Alarm type	Device name	Channel NO.	Time	^
Stop Motion Alarm	DVR	CAM8	2011-11-04 10:31:39	
Stop Motion Alarm	DVR	CAM7	2011-11-04 10:31:39	
Stop Motion Alarm	DVR	CAM6	2011-11-04 10:31:38	
Stop Motion Alarm	DVR	CAM5	2011-11-04 10:31:38	
Stop Motion Alarm	DVR	CAM3	2011-11-04 10:31:38	

Fig 4.1 Alarm Display List



When sensor alarm is triggered, a blue square will pop up and twinkle: The digital number in this square means the amount of alarm event. Double click this icon to pop up the detail information of these alarm events as shown below:

Alarm event				
Device name	Alarm type	Time	Status	Verify
name	Sensor1 Alam	2011-11-03 16:48:54	New	
name	Sensor1 Alarm	2011-11-03 16:50:24	New	-
				Close
				-
			To	
<				2

Select one alarm event and click "Verify" button to pop up a dialog box.

Verify password				
<u>e</u>	User Name :	SYSTEM		
	Password :			
Get System	Password	ОК	Cancel	

Input the password to handle the alarm event.

		Alarm event		×
Device name	Alarm type	Time	Status	Verify
папе	Sensort Alam	2011-11-03 16:48:54	Ventied	
name	Sensor1 Alarm	2011-11-03 16:50:24	New	Close
<				

After the event is verified, please click "Close" button and then verify password again to input remarks.

	(×	×
Device name name name name	Remarks (Max.char: 200)			Verify
	File linker		>>>	
<		ОК	Cancel	

Then click "OK" button.

4.1.4 System

The system tab displays the Camera Display List, which is used to display the added devices. User may Click 'Device List' or 'Camera Group' page to switch to display mode.

Fig 4.2 refers to the DVR aligned according to the device list. User may drag device from the Device List to the operation area for the GUI setup. Fig 4.3 displays the DVR aligned according to the camera list. User may drag the group to the operation area to watch all cameras of this group.



Fig 4.2 Device List



Fig 4.3 Camera Group

Please refer to section 4.3.1 for adding regions, group or devices etc

Notice: Before switching the display mode, user needs to click



button first to turn off live display.

4.2 Preview

The Live section of the interface provides toolbars for viewing the different channels and controlling PTZ cameras.

Local View

In the operation area, user can view live images, select automatic dwell, take snapshots, close all previews, etc. The toolbar buttons are described in the following table.

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No.	Buttons		Meanings						
1		Single Picture Pr	eview button. Click this button to watch camera in single picture preview mode.						
2		4-Picture Previev	v button. Click this button to display in 4-picture preview mode.						
3		9-Picture Previev	v button. Click this button to display in 9-picture preview mode.						
4		16-Picture Preview button. Click this button to display in 16-picture preview mode.							
5		25-Picture Previe	ew button. Click this button to display in 25-picture preview mode.						
6		36-Picture Previe	ew button. Click this button to display in 36-picture preview mode.						
7	J	6-picture	Click this button to display in 6-picture mode.						
		8-picture	Click this button to display in 8-picture mode.						
		13-picture	Click this button to display in 13-picture mode.						
		49-picture	Click this button to display in 49-picture mode.						
		64-picture	Click this button to display in 64-picture mode.						
		100-picture	Click this button to display in 100-picture mode.						
		256-picture	Click this button to display in 256-picture mode.						
8	Ø	Audio button. Clie	ck this button to turn on the audio signal.						
9			. Click this button to take snapshot of the selected camera. A maximum of 10 aken in one go. Click 'Snap' button to pop up a dialog.						
10	(w button. Click this button to turn off the live video. Before switching displa st turn off the live images.						
11	R)	 Dwell mean sequence of channel or it The Dwell it 	s can be set from a single channel mode to a maximum of 9-channel mode. Ins to display live images from different cameras in a sequence according to of the DVR in the Camera Group. The images may be displayed as a single in a grid fashion from different cameras. con/feature will only be activated when the current display mode is not able to all the cameras listed under a particular camera group.						
12		 This is activ 	p means to view the images of a group of cameras. vated only if the Dwell Setup is done in System Config. interface would dwell between the image groups as per the setup done in						

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13		Pre-Group/Next Group button.
		The Pre-Group/Next Group buttons are used to toggle between the channels of a group when
		the set display mode is not able to display all the channels of the group.
		Setup steps: Enter into 'System Config' interface, add devices on the left window first, then add
		multiple groups under Channel group column, and fainly add channels for each group. Click'
		\checkmark icon, select groups to dwell, and then set up the time to dwell. Switch to Preview interface \rightarrow
		Channel Group, double click or drag the channel group to the right window to preview all images
		of channels. Select screen mode (less than 64 screen modes). Now user can see all images of
		channels in this group through 'Pre-Group'/'Next Group' button.
14		Manual alarm button. You shall self-define it first in the local basic config tab (Enter into System
	<u>*</u> \$1	Config \rightarrow Local Config \rightarrow Local Basic Config tab, check the user-define box in the field of Local
	2	alarm config, input the alarm name, and check the alarm out box). Go back to the Live interface
		and the manual alarm button will be seen. Click this button to allow manual alarm.

Users can right-click on the live preview picture for the following operations:

- Turn off the live: To turn off live picture display from current channel.
- Start Manual Record: To start recording for the current channel. If the preview is stopped, then the recording of the channel would also stop.
- Stop Manual Record: Stop recording for the current channel.
- Enable Audio: Enable audio for the current channel.
- Full screen: This displays the image in full screen mode. When in the full screen mode, double click or right-click to exit full screen mode. User can choose to output the signal on a secondary monitor by selecting DISPLAY2. When output is displayed on the secondary monitor, the user can continue with other activities on primary monitor.



Fig 4.4 Camera Preview

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Fig 4.5 'Snap' Dialog Box

4.2.1 PTZ Configuration

PTZ camera can be controlled from the Control Center. User can move the dome up, down, right, and left, stop rotating, adjust rotation speed, iris, zoom, focus the dome, set the presets, and cruise lines etc.

4.2.2.1 Dome Control

From the 'PTZ Configuration' toolbar, the user can control rotation and speed of the dome. Function buttons of the Dome Control are described in the table below.

No.	Buttons	Meanings
1		 rotate up rotate down rotate left rotate right stop.
2		Drag the bar to adjust the rotating speed of the dome.
3	+	'Iris' button. Click 💌 🖃 button to adjust the Iris.
4	+ 0 -	'Zoom' button. Click 📧 📄 button to adjust the zoom.
5	+ +	'Focus' button. Click 📧 🖃 button to adjust the focus.
6	🏊 Select Preset ı 🗸	Go to the preset.
7	Mill Select Cruise l 🗸	Select and do auto cruise.
8	W	Track

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In the device list box, right click a certain channel, a shortcut menu will be shown as follows:

Stream: Enable the master stream. This machine supports master stream and second stream. Master stream has higher

frame rate, max 25FPS for every channel, but it needs higher network bandwidth. Second stream has lower frame rate, max 6FPS for every channel and it requires lower network bandwidth. Therefore, user can select the stream according to their bandwidth. **Turn off the live:** To turn off live picture display from current channel. **Start Manual Record:** Select a channel and click Start Manual Record. This will start recording the

channel. Click 'Stop Manual Record' to stop recording.

Enable audio: Click this to activate the audio for the channel.

4.3 System Configuration

The 'System Config' tab provides an interface for system configuration. This includes Device Manager, Local Configuration, Server Configuration, E-Map, User Manager, Log Query, and Decoder Card.

Function List

- Device Manager
- Local Configuration
- Server Configuration
- Map Config
- User Manager
- Log Query
- Export & Import Local Config

4.3.1 Device Manager

User can add regions, groups, and devices to manage all DVRs in the network. Once the regions, groups, and devices are added, they would be displayed in 'Device List'.

Function List

- Add Region
- Add Group
- Dwell Setup
- Add Device
- Modify
- Delete

4.3.1.1 Add region

User may set regions. A region is used to indicate the location of a particular device.

Configuration Steps:

i. Click 'Device Manager' 🚾 in system configuration menu. It will display 'Device Manager' interface.

ii. Click

button. It will pop up 'Add Region' dialog box. Input the region name in 'Region' textbox.



Fig 4.6 Right Key Sub - Menu



iii. Click 'OK' button. It will display the added region in Device List.

Notice: In order to add a sub region, user first has to select the parent region and then add the sub region. By default, a new region is added under Global region.

4.3.1.2 Add Group

Channel Group is used to create a group of cameras.

Configuration Steps:

- i. Click button in 'Device Manager' interface to pop up 'Add Group' dialog box.
- ii. Input group name in 'Group Name' textbox.
- iii. Click 'OK' button to create the group. Once the group is added, it will be displayed in 'Device List'.

4.3.1.3 Dwell Setup

Dwell Setup allows setting dwell function for channel groups.

Configuration Steps:

i. In the 'Device Manager' interface, click is button. It will pop up 'Dwell setup' dialog box. Refer to the picture below:

⊟ ♥ 2	Group Name:	Dwell Time:	
187:CAM03	2	30 Seconds	~
- 187:CAM04 - 187:CAM02	Z	5 Seconds 10 Seconds 20 Seconds	
187:CAM02 187:CAM03 187:CAM04	-	30 Seconds 60 Seconds 2 Minutes	
187:CAM04			

Fig 4.8 Dwell Setup

ii. After selecting groups, user can set the dwell time for each group (options 5/10/20/30/60 seconds or 2 minutes.



icon to dwell. Refer to the picture below:



Fig 4-9 Live- Dwell

4.3.1.4 Add Device

A region or a group should be created before adding a device (DVR). User should select a region or group to add the DVR. Below is an example of adding a DVR to a region,

- i. In 'Device Manager' interface, select the region in Device List and click button. It will pop up 'Add Device' dialog box.
- ii. Click 'Search Device' button and it will pop up 'Device Search' dialog box. The search tool would search and display the DVRs available on the network.
- iii. Double-click the DVR in device list box to select the DVR and to go back to 'Add Device' dialog box (to add the device).
- iv. Select IP of the DVR in 'IP Address' dropdown list.
- v. Input username and password of the DVR in 'User Name' and 'Password' fields.
- vi. Input the data port of the DVR.
- vii. Click 'OK' button and the added DVR will now be listed in the 'Device List'.

Notice: If the DVR is in LAN, user may use the default port: 9008. If the DVR is in WAN then the user would need to mention the port number for every DVR. If the DVR is in WAN, user would need to modify port number in 'Server Configuration -> Net Configuration'. Refer to ' Network Setup ' of the DVR manual.

Please refer to the following instructions for adding device.

- i. 🔽 This icon denotes region or group. 🗢 This icon denotes a device. 🔍 This icon denotes channel.
- ii. Once a device has been added, users can add the channels of the device to the relative channel group by selecting the

channel group in 'Channel Group' box and clicking button. User will have to turn off the live view first and then add the channel to the group.

iii. Channels of every added device would be listed below the device name.

4.3.1.5 Modify

User can modify region, group, device, and channel names.

Steps

- i. Modify Region
- In device list, select the region and click _____ button. It will pop up 'Modify Region Info' dialog box.
- Input new region name in 'Region' textbox.
- Click 'OK' button to modify the region name.
- ii. Modify Group
- In camera group list, select the group and click states button. It will pop up 'Modify Group Info' dialog box.
- Input new group name in 'Group Name' textbox.
- Click 'OK' button to modify the group name.
- iii. Modify Device
- In device list, select the device and click

button. It will pop up 'Modify Device Info' dialog box.

- Input new device name in 'Device Name' textbox.
- Click 'OK' button to modify the device name.
- User can also modify the username and password for the device.
- iv. Modify Channel
- In device list, select group name and click



button. It will pop up 'Modify Channel Info' dialog box.

- Input new channel name in 'Channel Name' textbox.
- Click 'OK' button to modify channel name.
- User can also select the network stream for the channel using the dropdown box (Master/Second stream).

4.3.1.6 Delete

Users can delete regions, groups, devices, and channels.

Steps

- i. Select the region, the group, the device, or the channel to be deleted.
- ii. Click button and a confirmation box will pop up.
- iii. Click 'Yes' button to delete the item.

4.3.2 Local Configuration

Click 'Local Configuration' to enter the submenu. This interface has 3 tabs,

- Local Basic Configuration
- Local Schedule Configuration
- Local Alarm Configuration

4.3.2.1 Local Basic Configuration

Dwell Time:	10 Seconds	Snap picture numb	ier: 5	~	JPG	~
Title:	Device&Channel Na	an 🔽				
ecord Config						
		Partition	Free Space	Total Size		
Recycle Record	Record partiti		24.28 G	37.56 G		
Minecycle necolu		🗹 D:V	44.53 G	58.59 G		
		E:V	43.46 G	58.59 G		
		💌 F:N	62.78 G	78.12 G		
ocal Alarm Config						
Alarm Holding Time:	30 Seconds 🛛 🗸	Post-alarm time(S) 1 Minute	🖌 🔽 🖌	arm processing functior	Sensor & Motion alarm
Alarm Holding Time:	30 Seconds 💌	Post-alarm time(S) 1 Minute	V Al	arm processing functior	Sensor & Motion alarm
-			S) 1 Minute		arm processing functior	Sensor & Motion alarm
Alarm Holding Time:		video loss	S) 1 Minute	V Alarm out1	arm processing functior	Sensor & Motion alarm
-			S) 1 Minute		arm processing functior	Sensor & Motion alarm
-			S) 1 Minute		arm processing functior	Sensor & Motion alarm
-			S) 1 Minute		arm processing functior	Sensor & Motion alarm 🛐
-			S) 1 Minute		arm processing function	Sensor & Motion alarm 🔹
✔ User-def			S) 1 Minute		arm processing function	Sensor & Motion alarm 🔹
User-def	name	video loss		✓ Alarm out1		Sensor & Motion alarm 🛛 🖻
-		video loss		✓ Alarm out1	arm processing function	Sensor & Motion alarm
User-def	name	video loss		✓ Alarm out1		Sensor & Motion alarm
User-def	name	video loss		✓ Alarm out1		Sensor & Motion alarm
User-def	name •	video loss Dperator log save	* One Week	V Alarm out		Sensor & Motion alarm
User-def og List Maintain Alarm log list save:	name	video loss Dperator log save		✓ Alarm out1		Sensor & Motion alarm
User-def	name •	video loss Dperator log save	* One Week	V Alarm out		Sensor & Motion alarm
User-def og List Maintain Alarm log list save: ther Config Serial Port	name P Half a Month	video loss Derator log save Baud Rate:	* One Week	V Alam out		Sensor & Motion alarm
User-def	name P Half a Month	video loss Derator log save Baud Rate:	* One Week	V Alam out	now Alarm Event list	Sensor & Motion alarm
User-def og List Maintain Alarm log list save: ther Config Serial Port	name P Half a Month	video loss Derator log save Baud Rate:	* One Week	V Alam out	now Alarm Event list	Sensor & Motion alarm
User-def og List Maintain Alarm log list save: ther Config Serial Port	name P Half a Month	video loss Derator log save Baud Rate:	* One Week	V Alam out	now Alarm Event list	Sensor & Motion alarm

Fig 4.10 Local Basic Configuration

In the 'Local Basic Configuration' interface, user can configure parameters for live image display, recording, local alarm, log list, and PC restart. The user can also view the version of the software.

Configuration Steps

- i. In the 'System Config' menu, click 'Local Config' icon.
- ii. The 'Local Config' screen would be displayed.
- iii. Select 'Local Basic Configuration' tab.
- iv. In the 'Live Config' box, set values for 'Dwell Time', 'Snap picture number and format', as well as 'Title'.
- v. In the 'Record Config' box, user can enable or disable the record recycle and select the default partition for saving the recorded files.
- vi. In the 'Local Alarm Config' box, set 'Alarm Holding Time', 'Post-alarm record time', 'Alarm processing function', and 'User define'.
- vii. In the 'Log List Maintain' box, set the parameters for alarm and operator logs.
- viii. In the 'Other Config' box, user can do settings for serial port and time.
- ix. User can set control center time by manually or by selecting 'Synchronize with PC time'
- x. The PC Restart Config box allows setting parameters for restarting the PC automatically. If activated, the user will be able to input 'login username' and 'password' of the PC and the frequency and time for restarting the PC.

4.3.2.2 Local Schedule Configuration

Schedule recording means recording as per a fixed schedule. In 'local Schedule Config' interface, users can set weekly schedules for each channel. The user can set time periods for each day of a week.

Configuration Steps

Week Schedule Configuration

- i. On 'Local Configuration' interface, select 'Local Schedule Config' tab and it will display 'Local Schedule Config' interface.
- ii. Select a camera from the device list to configure the schedule and click 📈 button.
- iii. Select a day of the week and then drag the mouse to select a time zone. User can create multiple time zones for a particular day.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
🖑 Notice: Ruler	1.																								

24 hours in a day. The least time frame that can be selected is 15 minutes.

Holiday Schedule Configuration

User can also set certain dates as holidays and configure the time zone for the same.

- i. Select the camera from the device list
- ii. Add a date in 'Holiday'.
- iii. Click 🗾 button and use the mouse to set the schedule for the holiday.

Local Alarm Configuration

A user can configure the CMS for recording based on a motion detection, sensor alarm or video loss alarm.

- i. In the 'Local Configuration' interface, select 'Local Alarm Config' tab.
- ii. Select a channel from the device list.

iii. Select the 'Alarm Type'.

Notice: In order to select sensor based recording/alarm, select the device from the device list and the sensors would be displayed in the 'Alarm type' box

iv. Once an alarm type has been selected, the user can trigger 'PC Audio Alarm', Channel Recording, or link it to E-Map (applicable to motion and video loss alarm only)

Notice: Alarm Trigger: Local Sound Alarm, E-Map Alarm, and Trigger Channel Alarm \rightarrow A particular alarm can be set to trigger a local sound alarm on the CMS. Sound alarm can be triggered by sensor alarm, motion detection or video loss.

E-Map Alarm refers to triggering an alarm on the E-Map. Once an alarm has been linked to an E-Map, the selected channel/camera would appear in alarm state in the E-Map.

For further details, please refer to section 4.3.4 'Set Camera'.

The user can also trigger recording of channels using alarm inputs. From the device list, select the device and configure the Alarm Input (Sensor) and the trigger mode. This can be set to raise a PC Audio Alarm or/and record channels.

4.3.3 Server Configuration

The customer can configure a DVR using the Server Configuration interface. Please refer to DVR's manual as configuring the DVR through CMS is similar to the manual configuration.

4.3.4 Map Configuration

A user can upload maps of the area, associate different cameras with different regions of the map/area and set alarms. This provides a GUI which helps the user to relate it to the actual site/locations.

In the System Configuration, click 'Map Config', to access the interface. In 'Map Configuration', users can add or delete e-maps, modify map names.

Function List

- Add Maps
- Add Sibling Nodes
- Add Sub Nodes
- Modify Map Names
- Delete Sub Nodes
- Set Camera

Add Maps

User can add several E-Maps.

Configuration Steps

- i. In the 'System Config' menu, click 'Map Config' is button and then right-click on the 'Map' tree to access the sub menu.
- ii. From the sub menu, select 'Add Map' and enter the name of the map in the textbox.
- iii. In the 'Path' box, click 🧖 button and the 'Open' dialogue box will pop up.
- iv. Select the path of E-Map and click 'Open' button to confirm path.

v. Click 'Confirm' button to add E-Map in Control Center.

Add Sibling Nodes

User can add E-Maps under the same parent map as Sibling.

Configuration Steps

- i. In the 'Map config' interface, right-click on an existing map.
- ii. Select 'Add Sibling Node' and then a dialogue of 'Add Map' will pop up.
- iii. Input name of the map.
- iv. In the 'Path' box, click 🧖 button and the 'Open' dialogue will pop up.
- v. Select the path to save the E-Map and click 'Open' button to confirm the path.
- vi. Click 'Confirm' button to add map in the map control center successfully.

Add Sub Nodes

A sub node can be added to an existing E-Map.

Configuration Steps

- i. In the 'Map Config' interface, right click on an existing map.
- ii. Select 'Add Son Node' and 'Add Map' dialogue will pop up.
- iii. Input the name of the map.
- iv. In the 'path' box, click 🖾 button and 'Open' dialogue will pop up.
- v. Select the path to save E-Map and click 'Open' button to confirm the path.
- vi. Click 'Confirm' button to add map in the map Control Center.

Modify Map Names

User can modify E-Map names.

Configuration Steps

- i. Right click on a map and select 'Modify Node Name'.
- ii. Modify the name of the map and click to save the modifications.

Delete Sub Nodes

A user can also delete Sub Nodes

Configuration Steps

- i. Right click on an E-Map and select 'Delete'.
- ii. A confirmation box will pop up. Confirm to delete.

1 Notice: Deleting a Map would automatically delete all sub nodes.

Set camera

Users can set a camera in the E-Map as per the actual map of the area.

Configuration Steps

- i. In the 'Map Config' interface, select the map to add camera.
- ii. Select a camera from the device list and drag it to the E-Map on a suitable location.

Notice: Once the setup is complete, the user can enter into the E-Map interface to watch live pictures and map alarm (Please refer to Chapter 4.4 E-Map for more details).

4.3.5 User Manager

An administrator can add several users and set the access rights for each user.

To add users to operate the CMS, please enter Into 'System Configuration \rightarrow User Manager' interface.

Function List

- Add user
- Modify passwords
- Delete Users

4.3.5.1 Add User Configuration Steps

- i. In 'System Config' men, click 💔 'User Manager' button.
- ii. Click 'Add User' Left button and the dialogue of 'Add User' will pop up.
- iii. Input user name and password in the text boxes.
- iv. Click 'Confirm' button to add user successfully.
- v. Set authorization for the added user, such as PTZ, local playback and backup, local record, E-map, and so on.

4.3.5.2 Modify Password

An administrator can reset the password of a user to the default password. However in order to change the password, a user would need to login from his/her account and then modify the password from User Manager. The following will introduce the steps to modify the password (from user login).

Configuration Steps - for modifying a user password from the user login

- i. Login from the user's account.
- ii. In the 'User Manager' interface, click 'modify' 🥙 button and the dialogue box of 'modify password' will pop up.



Fig 4.11 Local Basic Config

- iii. Input current password, new password, and confirm the same in the respective fields.
- iv. Click 'OK' to change the password.

To reset a password of a user from an administrator account, select the user from the user list, click 'Change Password'



button, and confirm to reset the password to default value.

4.3.5.3 Delete Users

The administrator can delete the users

Configuration Steps

- i. In the 'User Manager' interface, select the user to be deleted.
- ii. Click 'Delete'

, 80

button and confirm to delete the user.

4.3.6 Log Query

A user can check logs pertaining to alarms and CMS operation. Th following steps are an example of log query.

Configuration Steps

i. In the 'System Config' menu, click 'Log Query'



icon to access the 'Log Query' interface.

- ii. Select Log Type as 'Alarm'.
- iii. Select an alarm type from the 'alarm' dropdown box.
- iv. Select the date and time for the records to be checked.

1 Notice: User can query the data for one date at a time.

- v. Click with icon to select a particular channel for the query.
- vi. Select the required channels and 'Control Center Log' as per the requirement.
- vii. Once selected click button and the interface will search the information as per the set parameters, and display the same on the screen.

4.3.7 Export & Import Local Config

User can export or import local configuration. The following steps are an example.

Configuration Steps

- i. In the 'System Config' menu, click 'Export & Import Local Config' icon to access the 'Export & Import Local Config' interface.
- ii. Click 🛄 icon to choose the path to save the export file or to import the configuration file.
- iii. Click 'Export' or 'Import' button to export or import the configuration file.
- iv. After finishing the above operation, click 'Exit' button.

4.4 E-Map

E-Map is used to stimulate an area under surveillance using pictures and maps.

4.4.1 Change Icon

Configuration Steps

i. Click

E-Map button to enter into E-Map interface.

- ii. Select a camera on the map, right click, and choose 'Change Icon'.
- iii. 'Change Icon' dialogue box will popup. Select an icon and click 'OK' to change the icon of the camera.

4.4.2 Delete Camera

Configuration Steps

- i. Click E-Map button to enter into E-Map interface.
- ii. Select a camera on the map, right click, and choose 'Delete'.
- iii. Click 'Yes' on the confirmation box to delete the camera from the map.

Notice: The above-mentioned steps must be made after a user has added E-map and camera in the map configuration interface.

4.4.3 Map Alarm

Map alarm refers to a visual alarm in the E-Map. Once the camera is, it would blink when in an alarm condition. However, this will involve linking the camera with the alarm/event in the 'Local Config'. The schedule for the alarm type should be set in 'Server Config'.

Configuration Steps

- i. Enter into 'E-Map' interface.
- ii. Select a map from the map tree.
- iii. Double click on the blinking camera to view the live images.
- iv. Click 'Exit' button to exit the display of live images.

If a user selects 'Auto preview when alarm' item in the map configuration interface, the live image will automatically pop up when in an alarm condition. Only 16 alarm pictures are allowed to pop up. If a user selects 'Auto switch alarm map' item in the map configuration interface, the alarm map will be displayed when you enter into the E-map interface.

User can right-click on the map alarm display area for the following operations:

Return to parent map: return to parent map from a sub-map.

Full Screen: for a full screen mode, it can be displayed on the primary monitor or the secondary monitor.

Exit Full screen: click 'Exit Full screen' to exit from full screen mode.

4.5 Video Search

Click 'Video Search' tab from the main taskbar to access the interface. The main functions of video search are video Playback and Backup.

4.5.1 Video Playback

Supports Local Playback and Remote Playback



Fig 4.14 Remote Playback

User can search and playback video files of different channels for different dates. User can select a maximum of 16 channels for simultaneous playback. This system supports local playback and remote playback. The local playback refers to playing

recorded files which have been saved locally (i.e. the computer). The remote playback refers to playing the recorded files from the DVR. Although these two types play recorded files from different paths, they have the same settings and control operations. Here we take remote playback for example.

Number	Buttons	Meanings
1		Play button. Once searched, select the recorded file and click this button to play record files
2		'Pause' button. While playing, click this button to stop playing. To continue playing, use the Play button.
3		'Stop' button. When in play or pause mode, click this button to stop playing.
4		'Playing Speed' button. When playing, click this button and select playing speed with the drop down menu. Available options: 1/4X, 1/2X, 1X, 2X, and 4X.
5		'Next Frame' button. When in pause mode, adjust the required channel to single channel display mode and click this button to play frame by frame.
6		Playing Scale Marker Δ . Once a recorded file has been searched, a user can use this scale on the timeline for a precise time to playback. Right click on the marker pointer to amplify or contract the time scale.
7	START	'Start of backup stamp' button. Select it to start stamping the record of a channel for backup.
8	END	'End of backup stamp' button. Select it to end the backup stamp.
9	8	'Erase backup stamp' button. Select it to clear up its backup stamp.
10		'Backup' button. Select it to backup the record during the period of start to end of backup stamp.

Please refe	er GUI object	ts for the playbacks
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Configuration Steps

v.

- i. In the 'System Config' menu, click 'Record Playback'
- ii. Select the 'Record Type' from available options (Schedule, Manual, Motion, Sensor).
- iii. Click button, select the date for the required record.
- iv. Click with button to select the channels.
 - Click button to search. Once searched, the record file will be displayed on the right hand side.
- vi. Drag playing scale marker for the required timeline, and click Δ (pointer) to amplify the time scale.
- vii. Click viii button or drag marker to play the recorded file.

Notice: The default precision of time scale is 15 minutes and the range of scale is 0-24 which denotes 24 hours of a day. Click Δ^{-} to amplify scale for a 1 minute precision. The scale range 0-60 denotes minutes of an hour.

4.5.2 Video Backup

Remote backup Select Time By Time Start Time: 2008-7.15 15:55:22 Image: Colspan="2">Record Type O By Time Start Time: 2008-8.14 15:55:22 Image: Colspan="2">Motion Image: Colspan="2">Select Time O By Event End Time: 2008-8.14 Image: Time Image: Colspan="2">Motion Image: Colspan="2">Select Time Backup Path: C:\Program Files\ControlCenter\BackupData Image: Colspan="2">Colspan="2">ControlCenter\BackupData Event Type Device Name Channel Name Start Time End Time			Backup		
Backup Path: C:\Program Files\ControlCenter\BackupData	O By Time	Select Time Start Time: 200	 😂 🔽 Schedule	e 🔽 Manual	Select Ch Search Backup
	Backup Path:	Path: C:\Program Files\C			
Image: Second se					



User can backup files for a date range based on time or events. There are two types of backups: local and remote backup. The former is to take the backup of local recordings (files residing on the computer) and the latter (Remote Backup) is to take backup from the remote DVR.

Backup by Time

To backup record files by time, user needs to set the 'Start time', 'End Time' and select 'Channels'.

- i. On 'Video Search' toolbar, click 'Backup'.
- ii. Select 'By Time' option to backup the recorded files based on date and time.
- iii. Select the required date and time for the record period.



- iv. Click www.button to select the channels.
- v. Click 'OK' button to go back to 'Backup' Interface.



Click Backup button to begin searching and backing up the recorded files.

Notice: The user can define the backup path as required.

Backup by Event

vi.

For taking backups based on events, user needs to set Start Time, End Time, and Record Type and then select Channels.

- i. On 'Video Search' toolbar, click 'Backup'.
- ii. Select 'By Event' to backup the recorded files based on events.
- iii. Select Date and Time.
- iv. Select the required events in 'Record Type' box. (Schedule, Manual Motion, Sensor)

- v. Click with button to select the channels.
- vi. Click 'OK' button to go back to 'Backup' Interface.
- vii. Click 📈 bu

Click

ix.

button to search the recorded files.

viii. Select the files required to be backed up from the listed files.



Backup button to backup the files.

🖑 Notice: The user can define the backup path as required.

5 Use Method for IP-Tool

botice: Do not power off when updating.



First, install the CMS software and the IP-Tool icon IPTool will display on desktop. Double-click the IP-Tool icon and an

information dialog box will pop-up as below:

Device name	IP Address	Subnet Mask	Gateway	Data Port	MAC	Device Type	Firmware version	Build	kenel	DerVe
disdestard	192 168 11 20	255,255,255,0	0.0.0.0	9008	0018AE-30 DD-04	IP Camera	112	90714	30222365	11
latte	192 168 11 45	255 255 255 0	192,168,11,1	9008	0018 AE 30 EE 0A	IP Camera	112	90806	20090609	1.1
WR	192 168 3 57	255 255 255 0	192,168,3,1	2000	12:34 56 78 98 76	DVR	26.6 beta4	20090810	20080912	1.3
0VR02	192,168,11,173	255,255,255.0	192,168,11.1	2211	0018AE 202083	DVR	264	20090505	20081212	1.2
DVR04	192,168,3,109	255.255.255.0	192.168.3.1	2000	00.18 AE-20.30 58	DVR			20080912	
WR	192.168.3.134	255 255 255 0	192.168.3.1	2000	00:34:58:78:38:12	DVR	2.7.0.beta1	20090805	20090629	1.2
hame	192.168.3.205	255 255 255 0	192.168.3.1	9008	0018 AE 30 01 89	IP Cameta	1.1.2	90618	20090609	1.1
vt-kke	192,168,3,219	255.255.255.0	192.168.3.1	1160	00148550.9A88	SuperDVR				
name	192.168.11.14	255,255,255.0	192.168.11.1	9008	00.18 AE 30 AE 19	IP Camera	1.1.2	90618	20090609	1.1
01-65	1921121117	25,255,250	I TRUMP IN A REAL	9000	00 10 AE 34 31 02	IE Carrie	112	9005	12022-005	11
234567890123456		255.255.255.0	192.168.11.1	9008	0018.AE 30:60.49	IP Camera	1.1.2	90801	18822365	1.1
name	192,168,11.53	255.255.255.0	192.168.11.1	9008	00.18 AE: 30 FF:53	IP Camera	1.1.2	90806	20090609	1.1
WR4	192.168.11.64	255.255.255.0	192.168.11.1	2000	00:34:78:58:1F:90	DVR	2.6.6.beta3		20080912	1.2
WR	192.168.11.66	255.255.255.0	192.168.11.1	2000	00.18 AE 20.2E 21	DVR	2.6.6.beta3		20080912	1.2
WR	192,168,11,68	255.255.255.0	192.168.11.1	2000	00:18 AE:51:23:44	DVR	2.6.6.beta3		20080912	1.2
name	192,168,11,69	255,255,255,0	192.168.11.1	9008	00:18.AE:30:01:38	IP Camera	1.1.2		20090609	1.1
2V/R	192.168.11.74	255.255.255.0	192.168.11.1	2000	00:34:78:58:10:2A	DVR	2.6.6.beta3		20090616	1.2
WR	192.168.11.82	255 255 255 0	192.168.11.1	2000	00.347858.01.23	DVR	263		20080912	1.2
DVR .	192,168,11,85	255.255.255.0	192.168.11.1	2000	00.11:22:33:44:5£	DVR	265		20081212	1.3
WR	192.168.11.110	255.255.255.0	192.168.11.1	2000	00:18 AE:32 F0:22	DVR	2.6.5		20090625	1.2
WR	192.168.11.145	255 255 255 0	192.168.11.1	2346	00:18:AE:20:14:55	DVR	2.7.0		20090604	1.3
OVR	192.168.11.146	255 255 255 0	192.168.11.1	2000	00:18:AE:20:44:CD	DVR	2.7.0.beta1		20080912	1.2
0VR2308M	192 168 11 147	255.255.255.0	192,168,11,1	2346	00.18 AE 20.04 E5	DVR	2.7.0	20090731	20080912	1.2
vt+kk202	192,168,11,217	255.255.255.0	192.168.3.1	1160	00.01 29 D7:08:63	SuperDVR				
6x8-20090527CJ	192.168.11.221 192.168.11.225	255 255 255 0 255 255 255 0	192.168.3.1 192.168.3.1	1160	00 E0 4C F6 5F F5 00 24 10 29 7C 10	SuperDVR SuperDVR				

Click 'OK' button and start the IP-Tool. Refer to the picture below. The device can be searched on net. If it can't be searched, please check the accession of PC and device.

IP Tool										
If no any devices f	iound, please make si	ure that you don't rur	n ControlCenter sol	tware.						
Device name	IP Address	Subnet Mask	Gateway	Data Port	MAC	Device Type	Firmware version	Build	kernel	DevVer
Device name	II Address	JUDHOLMASK	udicividy	Data Fort	MAC	Device Type	T INTRACTO VOISION	Duild	Kenner	Devver
sdfsdfasdfasdf	192.168.11.20	255.255.255.0	0.0.0.0	9008	00:18:AE:30:DD:04	IP Camera	1.1.2	90714	30222365	1.1

When upgrading the program and kernel, the IP address of PC and device should be at the same network segment. If the network segment is different, user should change the IP address by selecting the device and right clicking 'network setup'.

name	192.168.11.45	255.255.255.0	192.168.11.1	9008	00:18:AE:30:EE:0A	IP Camera	1.1.2	90806 20090609	1.1
1234567890123456789	192.168.11.48	255 255 255 0	192.168.11.1	9008	00:18:AE:30:60:49	IP Camera	1.1.2	90801 18822365	1.1
name	192.168.11.53	browse with IE	2.168.11.1	9008	00:18:AE:30:FF:53	IP Camera	1.1.2	90806 20090609	1.1
DVR4	192.168.11.64	network setup	2.168.11.1	2000	00:34:78:58:1F:9D	DVR	2.6.6.beta3	20090717 20080912	1.3
DVR	192.168.11.66	Update Software	2.168.11.1	2000	00:18:AE:20:2E:21	DVR	2.6.6.beta3	20090710 20080912	1.3
DVR	192.168.11.68		2.168.11.1	2000	00:18:AE:51:23:44	DVR	2.6.6.beta3	20090710 20080912	1.3
name	192.168.11.69	Update Kernel	2.168.11.1	9008	00:18:AE:30:01:3B	IP Camera	1.1.2	90806 20090609	1.
0110	100 100 11 71	OFF OFF OFF O	100 100 11 1	0000	00.04.70.5040.01	01.00	0.0.01 . 0	00000740 0000040	

Modify IP address dialog box will appear like below:

Network setu	ıp				×
IP	192	. 168	. 11	. 48	
Subnet Mask	255	. 255	. 255	. 0	
Gateway	192	. 168	. 11	. 1]
User Name	admin			~	
Password	•••••	•			
Tip: Please ch ddress setup fai		assword	is corre	ct, wher	ı
	0	ĸ		Cancel]

Modify IP address and click OK button to exit the dialog box, IP-Tool will display the new IP address. Select the device and right click 'Update software' as shown below:

Update Software	X
IP	192.168.11.48
Port	9008
User Name	admin
Password	•••••
Update File:	C:\Documents and Settings\admin\Desktop\1.1.2.090801\T Browse
	Update Software Cancel

Click 'Update', start upgrading, and the progress bar will display as shown below. When upgrading doesn't disconnect PC to device, make sure power is on.

Update Software	×
IP	192.168.11.48
Port	9008
User Name	admin
Password	•••••
Update File:	C:\Documents and Settings\admin\Desktop\1.1.2.090801\T Browse Browse
	Update Software Cancel

When upgrade is finished, a massage box will pop up like below:

Port	9008
User Name Password	admin Update Success!
Update File:	ОК С:\Doc Кtop\1.1.2.090801\T Вrowse

Click OK button. Exit the update dialog box and the device will restart automatically.

Select the device. Right click	'Update kernel' and	d a dialog box wil	l appear as below:
--------------------------------	---------------------	--------------------	--------------------

name	192.168.11.45	255.255.255.0	192.168.11.1	9008	00:18:AE:30:EE:0A	IP Camera	1.1.2	90806 20090609	1.1
name DVR4 DVR DVR name	192456789 192168.11.53 192168.11.64 192168.11.66 192168.11.68 192168.11.69	browse with IE network setup Update Software Update Kernel 20022002000	2168.11.1 2.168.11.1 2.168.11.1 2.168.11.1 2.168.11.1 2.168.11.1	9008 9008 2000 2000 2000 9008	00:18:AE:30:E0:49 00:18:AE:30:FF:53 00:34:78:58:1F:9D 00:18:AE:20:2E:21 00:18:AE:51:23:44 00:18:AE:30:01:38	IP Camera IP Camera DVR DVR DVR IP Camera	1.1.2 1.1.2 2.6.6.beta3 2.6.6.beta3 2.6.6.beta3 1.1.2	90801 18822555 90806 20090609 20090717 20080912 20090710 20080912 20090710 20080912 20090710 20080912 90806 20090609	1.1 1.2 1.2 1.2 1.2 1.1
	Update Kernel							×	
	IP	192.168	.11.48						
	Port	9008							
	User Name	admin							
	Password	•••••	•						
	Update File:	C:\Doct	uments and	d Setting	gs\admin\Deskto	p\1.1.2.0	90801\T	Browse	
					U	odate Kerr	nel 🗌	Cancel	

Enter into Update Kernel interface dialog box, input admin in the User Name text box and input 123456 in the Password text box. Click 'Brower' to select the Update file (mboot8180-8180). Click 'Update' button to start updating. When upgrading doesn't disconnect PC to device, make sure power is on. The update progress bar will display like below:

Update Kernel	X
IP	192.168.11.48
Port	9008
User Name	admin
Password	•••••
Update File:	C:\Documents and Settings\admin\Desktop\1.1.2.090801\T Browse Browse
	Update Kernel Cancel

When update is finished, a message box will pop up. After a while, the device will restart automatically.

6 Troubleshooting

Solutions for installing CMS system in Windows Server 2003, Windows 2007, Window XP, and Vista.

In case the VGA driver is not installed correctly, the CMS software screen will appear to be incomplete. The screen may also flash. Below are the steps:

1) Click 'Start' button, enter the 'dxdiag' command into the Run column and press Enter button. The DirectX Diagnostic Tool interface will pop-up. Refer to Fig 6.1.

iystem DirectXFiles Display Sound Music Input Network Mor	
Device	Drivers
Name: ATI Radeon X1200 Series	Main Driver: ati2dvag.dl
Manufacturer: ATI Technologies Inc.	Version: 6.14.0010.6925 (English)
Chip Type: ATI Radeon X1200 Series (0x791E)	Date: 4/27/2009 20:41:00
DAC Type: Internal DAC(400MHz)	WHQL Logo'd: n/a
Approx. Total Memory: 320.0 MB	Mini VDD: ati2mtag.sys
Current Display Mode: 1024 x 768 (32 bit) (75Hz)	VDD: n/a
Monitor: Plug and Play Monitor	DDI Version: 9 (or higher)
DirectX Features	
DirectDraw Acceleration: Enabled Disable	Test DirectDraw
Direct3D Acceleration: Enabled Disable	Test Direct3D
AGP Texture Acceleration: Enabled Disable	
Notes	
 No problems found. To test DirectDraw functionality, click the "Test DirectDraw" buttor To test Direct3D functionality, click the "Test Direct3D" button abor 	

Fig 6.1 DirectX Diagnostic Tool under Windows XP

Click 'Display' tab to check the VGA driver information. If the Device Information and the Driver Information is correct, make sure that the DirectDraw Acceleration and Direct3D Acceleration is Enabled.

2) Install the VGA driver in case it is not installed.

Notice: The default state of DirectX acceleration of Windows2003 Server and Vista system is disabled. Thus the user would need to enable this function.

A. Hardware Acceleration: Right-click on the Desktop \rightarrow Properties \rightarrow Settings \rightarrow Advanced \rightarrow Troubleshoot. Drag the scroll bar of the hardware to the Troubleshoot interface and press 'OK'. The screen may go blank for minute.

B. **DirectX Acceleration:** Click 'Start' and input 'dxdiag' command into the 'Run' column and press enter. The DirectX Diagnostic Tool interface will pop-up. Refer to Fig 6.2. Enable DirectDraw, Direct3D, and AGP Texture on the Display interface.



Fig 6.2 DirectX Diagnostic Tool in Windows Vista OS