

CM5000

Central Management System

User's Manual

V2.1.1.1

COPYRIGHT

©2014 AVer Information Inc. All rights reserved.

All rights of this object belong to AVer Information Inc. Reproduced or transmitted in any form or by any means without the prior written permission of AVer Information Inc. is prohibited. All information or specifications are subject to change without prior notice.

TRADEMARKS

"AVer" is a trademark owned by AVer Information Inc. Other trademarks used herein for description purpose only belong to each of their companies

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

In no event will AVer Information Inc. be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages.

CONTACT INFORMATION

Taiwan & International No. 157, DA-An Rd., Tucheng Dist., New Taipei City, Taiwan TEL: 886-2-2269-8535 Web Site: <u>http://www.aver.com/</u>

Contents

CHAF	PTER 1	1 INTRODUCTION	1
СНАР	PTER 2	2 CMS INSTALLATION	2
2.1	Systen	n Requirements	2
2.2	Installi	ing the CMS Software in Windows	2
2.3	Run th	ne CMS System	3
СНАР	PTER 3	3 MONITORING REMOTE NVR/DVR SERVERS	4
3.1	Add the	e NVR/DVR server	4
A	dd a DVI	R/NVR server by DVR List dialog box	4
U	sing Auto	o Search to add a DVR/NVR server	6
3.2	Delete	the NVR/DVR server	8
3.3	Edit the	e NVR/DVR server	8
3.4	Monito	pring the NVR/DVR server	9
3.	4.1	Add/Delete the Monitor Page	10
3.	4.2	Rename the Monitor Page	11
3.	4.3	The Icons on Monitored Channels	11
3.	4.4	Enable/Disable the Monitored Channel	12
3.	4.5	Refresh the Status of Remote NVR/DVR server	13
3.5	Playba	ack in Preview Mode	14
3.6	Playba	ack in Playback Mode	15
3.7	Digital	PTZ Function	16
3.8	Conne	ect/Disconnect the Monitored Channel	18
3.9	Select	the Stream of Monitored Channel	19

3.10 Enat	ole/Dis	able the Sound of the Channel	
3.11 Swite	ch Mul	tiple Screen to Single Screen Display	21
3.12 Hide	the C	amera List Section	
3.13 Scre	en Ch	annel Display Mode	
CHAPTER	4	USING THE CMS SYSTEM	24
4.1 Fami	iliarizir	ng Functions of Preview Mode	24
4.1.1	E-m	nap Setting	27
4.1.2	Usi	ng the PTZ Control Panel	
4.2 Fami	iliarizir	ng Functions of Playback Mode	
4.2.1	Usi	ng the Event Search	
4.2.2	Usi	ng the Visual Search	
4.2.3	To E	Bookmark a Section of the Video	
4.2.4	Bac	kup the Playback Video	
4.2.4	4.1 I	Manual Backup	
4.2.4	4.2	Schedule Backup	
4.2.5	Usi	ng the QPlayer to Playback Backup File	
Fam	niliarizi	ng Functions of Qplayer	51
4.2.6	Out	put a Video Clip	
4.3 Com	pact N	Node	
4.3.1	Fan	niliarizing Function in Preview Compact Mode	
4.3.2	Fan	niliarizing Function in Playback Compact Mode	61
4.4 Log '	Viewei	r	65
4.4.1	Usi	ng the Event Log Viewer	65
4.4.2	Usi	ng the Alarm Log Viewer	

		Viewing the	Alarm Event	68
		Searching th	ne Alarm Event Logs	70
	4.4	.3 Using	g the POS Log Viewer	72
4	4.5	Snapshot the	e Screen	73
С⊦	IAP	TER 5	CUSTOMIZING THE CMS SYSTEM	74
5	5.1	Setup the La	inguage of CMS System	75
5	5.2	Import/Expor	rt the System Configuration	75
5	5.3	User Accoun	It Management	76
5	5.4	Setup Monito	Dr	78
СН	IAP [.]	TER 6	CUSTOMIZING THE REMOTE NVR/DVR SE	RVER 79
6	6.1	Configuring t	the Remote NVR/DVR Server	80
	6.1	.1 Syste	em Setup	80
		General Sys	stem Setting	81
		System Adv	anced Setting	82
		Davligh	It Saving Time Setting	83
			nizing System Login Setting	
			nizing System Miscellaneous Setting	
			n Update	
		Import 1	the NVR System Configuration	
		•	the NVR System Configuration	
		•	ling the NVR Firmware	
			ing the IP Camera Module Patch	
	6.2	.2 Netwo	ork Setting	91
		Setup the N	VR Server Name	93
		Network Adv	vanced Setting	94
		Setup t	he Transmitting Camera	
			he UPnP	

	Setup the Bandwidth Limit	95
	Setup the Network Port	
6.2.	3 Storage Setting	97
	Setup Hard Disk and Event Log Recycle Time	
	Hard Disk Calculator	
6.2.	4 Camera Setting	100
	Connecting an IP Camera	101
	Configuring the IP camera	104
	Info	105
	Basic	106
	Preference	107
	Exposure	109
	Stream	110
	ROI	111
	Smart Stream	112
	Privacy Mask	113
	Motion Detection	114
	Sensor	115
	Relay	116
	MFZ	117
	Setup Camera PTZ function	118
	Setup IP PTZ	118
	Setup Analog PTZ	119
6.2.	5 Schedule Setting	121
	Setup Recording Schedule	121

	Setting	g up the Alarm Schedule
6.2	.6	Alarm Setting
	Setup	the Alarm Condition
	Setup	the Alarm Action
6.2	.7	User Account Setting
	Create	an User Account
	Delete	an User Account
6.2	.8	I/O Setting
	Senso	r Setting
	Relay	Setting
6.2	.9	Setup the iPOS

Chapter 1 Introduction

The CM5000 (also call CMS) is a central monitoring system that enables user to monitor up to 16 NVR/DVR servers through an internet connection.



Chapter 2 CMS Installation

This chapter describes how to install the CMS software.

2.1 System Requirements

The system spec requirements for CM5000 are listed in following table:

	Minimum	Recommended	
CPU	Intel Core i5 3.3GHz	Intel Core i7 3.2GHz	
Main Memory	1GB	2GB or higher	
Video Memory	512MB	1GB or higher	
Hard disk	160GB or higher		
OS	Windows XP, Windows Vista, Windows 7, Windows 8		
Network	10~100 Mbps Ethernet		
Others	DirectX 9.0 or above		

2.2 Installing the CMS Software in Windows

- 1. Place the installation CD into the CD-ROM drive then click Install CM5000.
- 2. Select the language of CM5000 system.
- 3. Please carefully read the license agreement. Click Yes to accept the agreement.
- 4. Then, follow the on-screen instructions to complete the installation.
- 5. When the installation is completed, click **Finish**.
- User may now run the CMS program. To run the application, click CM5000 icon (Start-> SAVer > CM5000.

2.3 Run the CMS System

- Click CM5000 icon (Start> > AVer > CM5000 to run the CMS application.
- 2. For the first time login, enter the default ID **admin** and default password **admin**. User may change the login password in User Management(see also <u>Chapter 5.1</u>)

Please enter	your user I	D and pass	sword.
User ID			
Password			

3. After login the CMS system, user should see the preview mode of CMS system.



- 4. To add the remote NVR/DVR server for monitoring, refer to Chapter 3.
- 5. To use the CMS system, refer to Chapter 4.
- 6. To configure the remote NVR/DVR server, refer to Chapter 5.

Chapter 3 Monitoring Remote NVR/DVR Servers

CMS can monitor up to 1000 NVR/DVR servers. The default is 16 NVR/DVR servers, for more than 16 NVR/DVR servers monitoring that user needs to purchase the license. Please contact your local dealer for CMS license purchase.

3.1 Add the NVR/DVR server

There are two ways to add the NVR/DVR for monitoring and configuring. The descriptions will be in following contents.

Add a DVR/NVR server by DVR List dialog box

 In preview UI, click Setup to call out Setup window. In Setup window, click ▷ icon of CMS Setting. Next, select the NVR management and the NVR management page is displayed.

() Setup) CM5000	
ST Exit	
Setting	
GOS Setting Min Hungement	
	NVR Management
	NVR List Select. No. Server Name IP Address Port User Name Model Status
	Add Edt Deete
	Search List
	No. Server Name IP Address Port Model

- 2. Click Add button and NVR Information dialog will appear.
- 3. Enter the following data in DVR List dialog box.
 - Server Name: Name of remote NVR/DVR. The name of NVR/DVR server will display when CMS system is connected with NVR/DVR server.
 - **IP/Domain Name:** Enter the IP address of DVR/NVR server. Also, user can enter the domain name instead of IP address if the domain name is available.

- **Port**: The network port of DVR/NVR server. The default is 80.
- User Name: The ID uses to login DVR/NVR server.
- Password: The password uses to login the DVR/NVR server.

NVR Information Server Name		
IP/Domain Name	-	
Port		
User Name		
Password		
	L	

- 4. Click **Apply** to make a connection.
- 5. When connection is successful, click ▷ icon of NVR Management and all connected NVR/DVR servers are listed.

CM5000	
T tat	
8	
CMS Setting	
에 R Management. 편 725A 편 725A 편 725A	
E F25A	
- 725A	
	NVR. Management
	NVR List
	Select No. Server Name IP Address Port User Name Model Status
	2 F25A 10.100.91.55 80 admin E5016 Connected
	3 F2SA 10.100.91.54 80 admin ES016H Connected
	Add Edit Delete
	AND COR Desire
	Search List
	Search
	No. Server Name IP Address Port Model

Using Auto Search to add a DVR/NVR server

- Click Setup tab and click ▷ icon of CMS Setting, then, click NVR Management. The NVR Management dialog will appear on screen.
- 2. Next, click **Search** button to start searching remote NVR/DVR servers.

() Setter CM5000	
d∏ East	
Setting	
Image: Setting NvR Management.	
NVR Management	
	NVR Management
	NVR List
	Select No. Server Name IP Address Port User Name Model Status
	Add Edit Detete
	Hour (cost) Denter
	Search List
	Search
	No. Server Name IP Address Port Model

3. After search completing, select the NVR/DVR server that has been found by CMS system and click **Add** button.

() tetta) CM5000		
I Exet		
Setting a CHS Setting CHS MR Management		
	NVR Management	
	NVR List	
	Select No. Server Name IP Address Port, User Name Model Status	
	Search List	
	Search	
	No. Server Name IP Address Port Model	
	1 F25A 10.100.91.37 80 E5016H	
	2 F25A 10.100.91.55 80 E5016	
	3 P34 18.100.91.94 80 E93164	

4. The NVR Information dialog will appear. Enter the **User Name** and **Password** of remote NVR/DVR server and click **Apply** to make a connection.

Server Name	F25A
IP/Domain Name	10.100.91.37
Port	80
User Name	
Password	

 User should see the NVR/DVR server list in DVR List section after connection is successful.

CM5000	
] Eat	
CMS Setting	
NVR Management	
름 F25A 른 F25A	
F25A	
G	
	NVR. Management
	NVR tist
	Select No. Server Name IP Address Port User Name Model Status
	☑ 1 F25A 10.100.91.37 80 admin E5016H Connected
	Z F25A 10.100.91.55 80 admin E5016 Connected
	3 F25A 10.100.91.54 80 admin E5016H Connected
	Add Edit Delete
	Search List
	Search
	No., Server Name IP Address Port Model

3.2 Delete the NVR/DVR server

- Click Setup tab and click ▷ icon of CMS Setting, then, click NVR Management. The NVR Management dialog will appear on screen.
- 2. Select the NVR/DVR server that user wants to delete.
- 3. Next, click Delete button.

() return CM5000	
T fort	
Setting	
CMS Setting	
INR Hanagement	
E F25A	
2 F25A 2 F25A 2 F25A	
	NVR Management
	NVR List
	☑ 1 F25A 10.100.91.37 80 admin E5016H Connected
	2 F234 10:100:91:35 80 30mm 20169 Comected 3 F25A 10:100:91:54 80 admin 10:169 Connected
	Add Edt Delete
	Search List
	Search
	No. Server Name IP Address Port Model

3.3 Edit the NVR/DVR server

- Click Setup tab and click ▷ icon of CMS Setting, then, click NVR Management. The NVR Management dialog will appear on screen.
- 2. Select the NVR/DVR server that user wants to edit.
- 3. Next, click Edit button and the NVR Information dialog will appear.
- 4. In NVR Information dialog, the NVR/DVR server data is displayed and user can modify the NVR/DVR server's information.
- 5. When is done, click **OK** to apply the new settings.

3.4 Monitoring the NVR/DVR server

In CMS system, user can monitor camera channel from different NVR/DVR server. When CMS system is restart or re-login, CMS system will automatically reconnect the NVR/DVR server.

- 1. In Preview mode, select the NVR/DVR server and click \triangleright icon to expand the camera list.
- 2. Drag the camera that user wants to monitor to the channel screen.
- 3. User will see the live video of the camera.



3.4.1 Add/Delete the Monitor Page

In CMS system, user can add up to 4 monitor pages for different monitor combinations.

1. In preview mode, click blank page tab to add a new monitor page.

Setup	СМ5000		
O Previe	w 😯 Playback	< Page,01	
🖻 📙 DVR 1		× cemeral	1 0 E

- In new monitor page, user can drag the cameras from different NVR/DVR server to channel screen for monitoring.
- 3. To delete a monitor page, click **X** on page tab.

Setup	СМ5000			
O Preview	😵 Playback	< Page.01	Page.02	
🖢 📕 DVR 1	d I	え Chennel01	● E た Char	nel02

3.4.2 Rename the Monitor Page

- 1. Click on text of monitor name (Page #). User should see mouse cursor is flashing.
- 2. Next, use delete or backspace button on keyboard to erase the original name and enter the new name.
- 3. When is done, click anywhere on screen to leave the page tab.

The second secon	Page,01
🗄 🛃 DVR 1	to E
	¥
Setup CM5000	ŧ
	+
Setup CM5000	TPE Site

3.4.3 The Icons on Monitored Channels

There are some icons on monitored channels and they are explaining in following.

六	Indicates the monitored camera motion recording status on NVR/DVR site.	
	- Red color: The monitored camera is motion recording on NVR/DVR site.	
	- Gray color: The monitored camera is not motion recording on NVR/DVR site.	
	Click to playback the monitored camera live video instantly.	
	Enable/disable audio play of monitored camera. User can click the icon to enable	
,	or disable the play of audio.	

3.4.4 Enable/Disable the Monitored Channel

[Note] This action will apply to remote NVR/DVR site.

In Camera list, user can enable/disable the camera. When camera is disabled, monitor and record function are both disabled on remote NVR/DVR site. In CMS system, user won't be able to see the live video of the camera.

Right-click on the camera in Camera list section, select disable or enable the camera.





3.4.5 Refresh the Status of Remote NVR/DVR server

[Note] This function can be operated in preview mode only.

The refresh function allows user to update the remote NVR/DVR server status immediately. Right-click the DVR in Camera List section and select **Refresh**.



3.5 Playback in Preview Mode

Click **E** icon on channel to instantly playback the recorded video on remote NVR/DVR server in preview mode. User can playback multiple channels at the same time.

Move the mouse cursor on channel screen, the playback tool bar will appear and use it to control playback status.

Playback tool bar

K ≪ II ▶ ▶ IÞ FI @ = ×1 13:01:24

Button	Function
I	Go to the beginning of video.
44	Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x.
П	Briefly stop playing the recorded video.
	Play the recorded video.
44	Play the recorded video file at the speed of 2x, 4x, 8x, 16x, 32x, or 64x.
	Go to the next frame.
14	Go to the end of video.
d∎	Call out the calendar to select the date and time for playback.



3.6 Playback in Playback Mode

In CMS system, user can view the recorded video of monitored channel which are recorded on remote NVR/DVR server.

- 1. Click **Playback** tab.
- In playback mode, the CMS will start playback the recorded video from remote NVR/DVR server. If the remote NVR/DVR server doesn't record, there is no recorded video for playback.
- 3. All monitor pages are playback at the same time when the system switches to the playback mode.



3.7 Digital PTZ Function

[Note] This function can be operated both in preview and playback mode. The following description is based on preview mode.

The digital PTZ function allows user to enlarge the selected area to view.

1. Right-click on the channel screen and mark **Digital PTZ** to enable digital PTZ function.



2. When the digital PTZ is enabled, the cursor is changed to cross and user can select an area to enlarge the view.



3. The selected area will be enlarged and a sub-window will appear at right bottom of screen. User can move the gray frame of sub-window to view other area of screen in enlarge view.



4. To disable the digital PTZ, right-click on channel screen and un-mark the Digital PTZ. The channel screen view will back to normal view.

3.8 Connect/Disconnect the Monitored Channel

[Note] This function can be operated in preview mode only.

Right-click on monitored channel and un-mark the "**Connect**" to disconnect the connection. When the monitored channel is disconnected, the live video cannot be seemed. Mark the **Connection** again to bring back the live video view.





3.9 Select the Stream of Monitored Channel

[Note] This function can be operated in preview mode only.

User can select the stream of monitored channel by right-click on screen channel.

3.10 Enable/Disable the Sound of the Channel

[Note] This function can be operated both in preview and playback mode.

User can click the audio icon (\blacktriangleleft) to mute (\blacktriangleleft) the sound of channel. Click audio icon (\blacktriangleleft) again to turn on the sound.



Preview mode



Playback mode

3.11 Switch Multiple Screen to Single Screen Display

[Note] This function can be operated both in preview and playback mode. The following description is based on preview mode.

In multiple screen display mode, user can double-click on the channel screen to switch to single display screen mode. Double-clicking again on channel screen, the screen display will switch back to multiple screen display mode.



Preview mode



Preview mode

3.12 Hide the Camera List Section

[Note] This function can be operated both in preview and playback mode. The following description is based on preview mode.

User can hide the camera list section to have larger view of screen.

In preview mode/playback mode, click < icon next to preview tab and the camera list will be hided.



To show the camera list again, click > icon.



3.13 Screen Channel Display Mode

[Note] This function can be operated both in preview and playback mode.

The CMS system has provided 7 types of screen display mode – single (___), QUAD (___), 9-split screen (___), 16-split screen (___), 8-split screen (___), 13-split screen (___), and 33-split screen (___). To select the screen display mode, click on the screen display icon. To reset to default screen mode, select the form and all monitored cameras will be cleared.



Preview mode



Playback mode

Chapter 4 Using the CMS System

The CMS system is divided into 3 parts – preview, playback, and setup mode. Functions of each mode will be described detail in following chapters.

4.1 Familiarizing Functions of Preview Mode

The preview mode is where user monitors cameras of remote NVR/DVR server and operates logs, PTZ, E-map, and snapshot function.



Name	Function
(6) E-map	To load up to 8 desired E-maps in *.JPG and *.PNG image
	format, and locate cameras, sensors, and relays to desired
	positions (see also <u>Chapter 4.1.1</u>).
(7) Event Log Viewer	Search and display the record of activities that take place in the system (see also <u>Chapter 4.4.1</u>).
(8) POS Log Viewer	Search and display POS event logs (see also Chapter 4.4.3).
(9) Date and Time	It shows the current system date and time.
(10) Split Screen Mode	It provides 7 kinds of split display modes for your selection. User
	can select the split display modes by clicking the split mode
	icon. To reset all monitored cameras, select $\textcircled{lackslash }$ and all
	camera channels will be cleared.
	ne of the video in the multiple-screen mode, double click on the only want to display.

To only display one of the video in the multiple-screen mode, **double click** on the video screen you only want to display.

(11) AutoScan	Click it to start auto cycle display each channel.
(12) Full screen	Use the entire area of the screen to only display the video. To
	return, press the right button of the mouse or ESC on the
	keyboard or click the arrow icon.



Name	Function
(13) System Information	Click it to view NVR system's version and copyright.
	Information ×
	CM5000 Current Software Version 2.0.1030.35 Copy Right
	Isolaticual Projectly Information for Alter Information Inc., CAP (1988) 52013 Alter Information Inc., All Rights Reserved. This program is protected by copyright law and international treatles. Used to the program or any portion of Its program, or any produced or transmitted in any form, responded or transmitted in any form, inc. Alter Information Inc. reserves the rights to modify its modes, including
(14) Minimize	Minimizing the CMS system in system tray.
(15) Power button	Call up the Power dialog box.
	In the Power dialog box, user may do the following:
	Power

	User ID admin Level Administrator Exit Compact Login Cancel
	 Exit: To shutdown the CMS system. Compact: Switch to compact mode(see also <u>Chapter 4.3</u>).
	- Cancel: To exit Power dialog box.
(16) Alarm	Click Alarm Status button to view the alarm event and search
	alarm event(see also Chapter 4.4.1)
(17) Snapshot	Catch a static recording image and save it as a JPG or PNG file

in USB pen drive device(see also Chapter 4.5)

4.1.1 E-map Setting

Holds up to 64 maps in *.jpg and *.PNG format. The map is hierarchy in structure and users can add a map on another map. User also may add the DVR icons on the map.

- 1. Click (E-map) icon in preview mode.
- 2. The E-map dialog box will appear in the left corner of preview screen.



- 3. Click 🗗 icon on E-map dialog box to expand the E-map dialog box on the preview screen.
- 4. Click **Edit** button to switch to E-map setup mode.



5. Then, click the Map number (1 to 8) that user want to setup.



Next, click 2 icon to setup name of E-map and load a map figure. When the E-map Setting dialog box appears, click the open file icon (2) to locate and select the map. Enter a name for this E-map in Name column. Click OK to save the setting.

Name Map	1		
🖲 Remote	O DVR	DVR 1	M
Image Path	world-map.jpg		

7. When the inserted map appears on the E-map screen, user may now drag the NVR icons to its place on the map. Icons on the map can be relocated anywhere. If user is going to locate the icon on the map to other area, click **Edit** button and right-click on the NVR icon on the E-map and click **remove** to put the NVR icon back to the Resource list.



8. Also, user can add a map layer under the map (map 1~8). Select the map (map 1~8) and click icon to add a map layer under the selected map. Enter a name for the new map layer. In E-map Setting dialog box, select **Remote** to add a map save in CMS site and select **DVR** to put the map of remote site on map. Then, click i to locate the map image file to insert it. Click **OK** to save the setting. User should see the map icon ((located on map. To modify the map layer, select the map layer and click i con.

Name Map 1.:	[]		
💿 Remote	O DVR	DVR 1	
Image Path 👿	orld-map.jpg		6
9. When the inserted map appears on the map list, user can relocated the map icon anywhere on the map. Double-click on map icon; it will switch to the map layer. To delete the map layer, select the map layer and click button to delete the map layer. When setup is done, click OK to save the setting.



- 10. To exit E-map mode, click 🗙 icon.
- 11. When alarm occurred, the icons on the map will turn to flash status.



4.1.2 Using the PTZ Control Panel

User can control PTZ camera through PTZ control panel in preview mode. Enable and set up the PTZ camera; refer to chapter of *Setup PTZ Camera Function*.

- 1. Select the camera has PTZ function enabled.
- 2. Next, click 👢 (PTZ) icon to call out PTZ control Panel in preview mode.



3. The functions' description of PTZ control panel is as following.



Name	Function
(1) Camera preset position number	Move the PTZ camera to the preset point.
(2) Group AutoPan	Select to automatically operate PTZ camera in group.

Function
Adjust the moving speed of the PTZ camera lens. This speed will apply to the (11) Direction buttons ' moving speed only.
Save the PTZ camera preset position number. Select the camera
and click the preset position number and save it.
Operate the PTZ cameras automatically based on the selected
camera group preset position number. User needs to select the (4)
Group AutoPan, then, click (5) Auto Pan button.
Zoom in and out the image.
Adjust the focus manually to produce clear image.
Display the PTZ camera number that is being operated.
Move and position the focal point of the PTZ camera. The support of
direction button depends on the PTZ camera.

4.2 Familiarizing Functions of Playback Mode



Click **playback** tab to switch to playback mode.

Name	Function
(1) Playback	Switch to Playback mode. This allows you to view the recorded video of monitored cameras.
(2) Setup	Click Setup button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication(see also <u>Chapter 6</u>)
(3) Preview	Switch to Preview mode. This allows you to view live camera display.
(4) Camera list	Lists all cameras of NVR. Click + to expand the list.
(5) E-map	To load up to 8 desired E-maps in *.JPG and *.PNG image format, and locate cameras, sensors, and relays to desired positions (see also <u>Chapter 4.1.1</u>).
(6) Searching	 CMS supports 2 types of searching in playback mode: Event Search: Search from the recorded activities that were recorded in event log such as Sensor, Motion, Video Loss (see also <u>Chapter 4.2.1</u>). Visual Search: Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second (see also <u>Chapter 4.2.2</u>).

Name	Function
(7) POS Log Viewer	Search and display POS event logs (see also Chapter 4.4.3).
(8) Status bar	Display the recorded date, time and play speed.
(9) Date	Select the date on the calendar and the time to where to start playing the recorded video file.



- Date: click the date on calendar to select. The date in bold text indicates there has recorded file. Click ③ and ③ icon to switch the date or click ▼ icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
- Time: In Time box, select the hour, minute, and second to setup the playback start up time.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

(10) Date and Time	It shows the current date and time.
(11) Split Screen Mode	Select from 7 kinds of split screen type to playback the recorded
	video file of all the camera, or one camera over the other or
	alongside on a single screen. To reset all monitored cameras,
	select $$ and all camera channels will be cleared.



To only display one of the video in the multiple-screen mode, **double click** on the video screen you only want to display.

Name	Function
(12) Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.
	When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(13) Snapshot	Catch a static recording image and save it as a *.JPEG or *.PNG file in pen drive device or local hard disk drive (see also <u>Chapter</u> 4.5).
(14) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for later reference (see also <u>Chapter</u> <u>4.2.3</u>).
(15) Backup	Save the playback file to USB pen drive or local hard disk (see also <u>Chapter 4.2.4</u>).
(16) System Information	Click it to view CMS system's version and copyright.
(17) Minimize	Minimizing the CMS system in system tray.

Name	Function
(18) Power button	Call up the Power dialog box.
	In the Power dialog box, user may do the following:
	Power
	User ID admin Level Administrator Exit Compact Login Cancel
	- Exit: To obutdown the CMS overlam
	 Exit: To shutdown the CMS system. Compact: Switch to compact mode (see also <u>Chapter 4.3</u>).
	 Login: To login in different account. Default user ID is
	admin and password is admin.
	- Cancel: To exit Logout dialog box.
(19) Alarm Log Viewer	Click button to view and search the alarm event logs (see also Chapter 4.4.2.).
(20) ¬ F (Segment)	Keep a portion of the recorded video to repeat playback; also can output the segment video to the pen drive device. Click the video to set the segment video. User can drag the triangle mark to set the video segment (see also <u>Chapter</u> 4.2.6).
(21)	Save the segmented video file in *.avi format (see also <u>Chapter</u> <u>4.2.6</u>).
(22) Playback Control	From left to right order:
Buttons	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of 1/2x,
	1/4x, or 1/8x. The playback speed will show on the screen.
	Rewind: Wind back the recorded video file.
	I Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2x, 4x,
	8x, 16x, 32x, or 64x. The playback speed will show on the
	screen.
	Next : Go to the next frame.

Name	Function
(23) (23) (200 / 2	To expand the playback time bar from an hour to minute.
(24) Hide the progress bar	Click to close up the progress bar. Click again to open up.
(25) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track. Using the Zoom In/Out button (I / III)) to expand the playback time from an hour to minute.
	Meaning of color in progress bar: - Red: Sensor record
	- Green: Motion record
	- Blue: Always record(normal record)
	- Yellow: Video loss
	- White: No record data

4.2.1 Using the Event Search

In playback mode, user can use Event Search to find the specific event to playback.

- 1. Select the channel that user wants to search.
- 2. Click (Search) icon, then select (Event Search) icon. The Event Search

dialog box would appear at side area.



- 3. In the Event Search dialog box, check the type of condition user wants to search. Then, set the **Start Date/Time** and **End Date/Time**.
- 4. Next, click **OK** to start searching.
- 5. When the Event list appears, click and select the item user wants to view; but not all the events can be playback such as Sensor.
- 6. To close the Event Search dialog, click \mathbf{X} icon.

scafth	Condition	[7] Sens	or .	P vde	Loss		Motion			
			ite/Time				16:43:40	4		
		End Dat		2014/0			16:43:40	(A)		
		LIN DB	et mine	2014/0	1/20		10,40,40			
							Sea	rch		
Search	Result									
No.	Server Name	Camera	Ţ	pe	:	28	t Date/Time		End Date/Time	
06	DVR 1	01	Video 8	.055	2014/	01,	27 23:00:01		2014/01/27 23:59:59	
07	DVR 1	01	Video I	.055	2014/	01	28 08:00:00		2014/01/28 08:59:59	
08	DVR 1	01	Video I	.055	2014/	01	28 09:00:00		2014/01/28 09:59:59	
09	DVR 1	01	Video I	.055	2014/	01/	28 10:00:01		2014/01/28 10:42:29	
10	DVR 1	01	Video I	.055	2014/	01,	28 10:45:14		2014/01/28 10:50:56	
11	DVR 1	01	Video I	.055	2014/	01	28 10:51:29		2014/01/28 10:52:17	
12	DVR 1	01	Motion		2014/	01	28 10:52:23		2014/01/28 10:52:31	
13	DVR 1	01	Motion		2014/	01/	28 10:52:43		2014/01/28 10:52:43	
14	DVR 1	01	Motion		2014/	01	28 10:52:45		2014/01/28 10:52:46	
15	DVR 1	01	Motion		2014/	01	28 10:52:48		2014/01/28 10:52:52	
16	DVR 1	01	Motion		2014/	01	28 10:52:56		2014/01/28 10:52:59	
17	DVR 1	01	Motion		2014/	01	28 10:53:05		2014/01/28 10:53:09	
18	DVR 1	01	Motion		2014/	01	28 10:53:12		2014/01/28 10:53:13	
19	DVR 1	01	Motion		2014/	01	28 10:53:15		2014/01/28 10:53:18	
20	DVR 1	01	Motion		2014/	01	28 10:53:23		2014/01/28 10:53:34	
										More

4.2.2 Using the Visual Search

In playback mode, user can use Visual Search to find the specific time to playback.

1. Click (Search) icon, then select (Visual Search) icon. The Visual Search

dialog box would appear under the area.

- In the Visual Search dialog, select the date. Click () and () icon to switch the month or click ▼ icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
- 3. Next, setup the search time period by clicking spin buttons to setup the hour, minute, and second.



4. Then, click Search to start searching.

- 6. To playback the selected video, click |>> button or double-click on selected video screen.



4.2.3 To Bookmark a Section of the Video

User can bookmark a specific time of video section.

1. Using the mouse to move the playback time progress bar to the time that user wants to bookmark.



2. Then, click 😥 icon. The Bookmark dialog box is appeared on the screen.

Select	A La	Conven	Times	Mark
Select	No.	Server	Time	Mark

 Click Add button to create the new reference mark in the bookmark list. Enter a short description or name for the mark and click Apply button to save the bookmark. To exit bookmark Editor dialog box, click Cancel button.



4. Select and click one in the bookmark list to review the file.

Select	No.	Server	Time	Mark
	1	F25A	2013/05/13 14:14:55	001

- 5. To modify the bookmark, select the bookmark and click **Edit** button.
- 6. To delete the bookmark, select the bookmark and click **Delete** button.

Select	No	Server	Time	Mark
	1	F25A	2013/05/13 14:14:55	001

To close the Bookmark dialog box, click 🗵 icon.

4.2.4 Backup the Playback Video

4.2.4.1 Manual Backup

Backup the recorded files to external USB pen drive or local hard disk drive. In Manual Backup dialog box, user can select different channels or time period to backup at the same time. The backup files can be playback on PC by Qplayer application which is included when user select to include player while backup. Play backup file on PC refer to <u>Chapter 4.2.5</u>.

- 1. Click **Playback** tab to switch to playback mode.
- 2. Click **Backup** () button and select **Manual backup** (). Then, the Manual Backup dialog box is appeared.
- 3. In Manual Backup dialog box, select the following settings:
 - Channel: Select the channels that user wants to backup. Mark All to select all channels.
 - **Select date and time:** Select the date and time period that user wants to backup.
 - Include Player when backup: Including the player for playback the backup file on PC.
 - Backup File Size: Display the total size of the backup file. If there are more one backup file, there will be total size of all backup files. Click Calculate Size button to calculate.
 - **Backup Path:** Selecting a save path for backup file.
- 4. After selecting the backup file conditions, click **OK** to start backup.

Server Name DVF	•
	03 04 05 06 07 08 09 10 11 12 13 14 15 16 19 20 21 22 23 24 25 26 27 28 29 30 31 32 2014/01/28 16:52:29 + 2014/01/28 16:52:29 +
] Include player w	Add Add
ackup Files Size	Calculate Size
ackup Path	

 User can backup multiple recorded file (different channels and different time period) at the same time. Repeat the above steps to create the backup file and click Add button. The multiple backup files limit is 3 files at the same time.



 When all backup files have created, click OK button to start archiving the selected file to USB pen drive or local hard disk drive.

4.2.4.2 Schedule Backup

Set a backup schedule on selected NVR/DVR server, channel, and time; the backup action will be executed on schedule time everyday.

Schedule backup is operated as following rules:

- Each NVR/DVR server only can be backup one schedule task at a time.
- CMS system can perform 3 backup schedule tasks (different NVR/DVR server) at a time. When one schedule task is completed, the following schedule task will start.
- When backup schedule is completed, the schedule task will be removed from Processing Task list.
- All completed schedule tasks are shown on Report page.
- Schedule task will be removed when:
 - There is no recorded data to backup.
 - The network connection is loss.
 - User has deleted the backup schedule.
- 1. Click **Playback** tab to switch to playback mode.
- Click Backup () button and select Schedule backup (). Then, the Schedule Backup dialog box is appeared.

ocessing	Task	Schedule	Storage Setting Report				
Select	No.	DVR	Data From	Data To	File Size	Progress	Status
							Del

3. Set the storage path. Before starting to set the backup schedule, user needs to set a storage path.

Select **Storage Setting** tab. In Storage Setting page, click **Add** button and browse the storage path location to add a storage path. The storage path can have more than one but at least one storage path is required for backup.

ocessing Task	Schedule S	torage Setting Repor	t		
Backup Pat	h				
Select		Location		Free Space	Used Space
D:\	backup			70.60 GB	15.71 GB
					Add Delete
Space Mana	gement				Add Delete
	gement	er 7 🚖 Days		 	Add Delete
Delete Re	corded Data Aft	er 7 b Days 30 d Days		 	Add Delete
✓ Delete Rep ✓ Delete Log	corded Data Aft			 	Add Delete
✓ Delete Rep ✓ Delete Log	corded Data Aft				Add Delete
	corded Data Aft				Add Delete

In Storage Setting page, user can setup logs data and hard disk space recycle. Click **Apply** to save the settings.

- Delete Recorded Data After Days: If user wants the system to automatically erase the data after a certain days, enable the Delete Recorded Data After check box and enter the numbers of days in Days text box.
- Delete Log Data After Days: If you want the system to automatically erase the event and alarm log after a certain days, enable the Delete Log Data After check box and enter the numbers of days in Days text box.
- **Recycle: Mark** to over write hard disk from older data when hard disk space is full.

4. Set the backup schedule. Click Schedule tab. In Schedule page, click Add button to set a backup schedule.

edule Ba	ckup						
rocessing	Task	Schedule	Storage Settin	g Report			
Select	No.	Pr	ocess Time	DVR	Data From	Data To	Status
						Add	Modify Delet

In Task Setting dialog box, select the time, NVR/DVR server, camera, data time and backup path. Click **Apply** to save the backup schedule. Click **Cancel** to back to the Schedule page.

- Process This Task at Everyday: Select the backup time to process on every day. The time period is based on 24 hours.
- Server Name: Select the NVR/DVR server that user wants to backup.



- **Camera:** Select the camera channel of NVR/DVR server that user wants to backup.
- Backup Path: Select the storage path for saving backup data. The storage path must

be set before setting up the backup schedule.

User should see the all backup schedules at Schedule page. To modify the backup schedule, select the schedule and click **Modify** button. Click **Delete** button to remove the selected schedule from schedule list.



When schedule status is disable, the backup schedule won't be able to execute; click the drop-down list and select **Enable**.

rocessin	g Task	Schedule	Storage Settin	g Report]			
Select	No.	Pro	ocess Time	DVR	Data From	Data To	Status	8
	1	2014/02	/05 12:00:00	DVR 1	2014/02/04 11:00:00	2014/02/04 13:00:00	Enable	•
	2	2014/02	/05 12:00:00	DVR 1	2014/02/04 11:00:00	2014/02/04 13:00:00	Enable	•
	3	2014/02	/05 12:00:00	DVR 1	2014/02/04 11:00:00	2014/02/04 14:00:00	Enable	•

 In Processing Task page, user can view all the processing backup schedule tasks. When schedule task is completed, this schedule task will be removed from processing task list. Double-click on processing schedule task, user can view the schedule detail information, but user cannot modify the schedule.

Select	No.	NVR	Data From	Data To	File Size	Percentage	Status	
	1	DVR 1	2013/12/23 00:00:00	2013/12/23 12:00:00	0.33 GB	0	BACKUP_STATUS_WAITING	
	2	DVR 1	2013/12/23 12:00:00	2013/12/24 00:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	
	3	DVR 1	2013/12/23 17:00:00	2013/12/23 18:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	
	4	DVR 1	2013/12/23 17:00:00	2013/12/23 18:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	:
	5	DVR 1	2013/12/24 12:00:00	2013/12/24 13:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	
	6	DVR 1	2013/12/24 13:00:00	2013/12/24 14:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	
	7	DVR 1	2013/12/24 14:00:00	2013/12/24 15:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	
	8	DVR 1	2013/12/24 15:00:00	2013/12/24 16:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	
	9	DVR 1	2013/12/24 16:00:00	2013/12/24 17:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	
	10	DVR 1	2013/12/24 00:00:00	2013/12/24 12:00:00	0.00 GB	0	BACKUP_STATUS_PENDING	

6. In **Report** page, user can view all completed backup schedule tasks.

	Task Sch	edule Storage	Setting Report	t			
Search	Condition						
Start D	ate 2/5/20	14 • Searc	ch				
No.	DVR	Task Begin	Task End	Data From	Data To	File Size	Result
1	DVR 1	2014/02/05 12:00:03	2014/02/05 12:00:03	2014/02/04 11:00:00	2014/02/04 13:00:00	0.00 GB	No video recor
2	DVR 1	2014/02/05 12:00:08	2014/02/05 12:00:08	2014/02/04 11:00:00	2014/02/04 13:00:00	0.00 GB	No video recor
3	DVR 1	2014/02/05 12:00:13	2014/02/05 12:00:13	2014/02/04 11:00:00	2014/02/04 14:00:00	0.00 GB	No video recor

4.2.5 Using the QPlayer to Playback Backup File

You can playback the backup files by using QPlayer applications on the PC. When you back up the recorded file, QPlayer applications are automatically included in the backup folder if user has enabled the selection of **Inculde player when backup** when backup recorded file. With QPlayer, it is similar in Playback mode and supports different split screen types to view all the video at the same time.

To run the application, go to backup folder and select Qplayer folder, then, double-click **Qplayer.exe**.



Familiarizing Functions of Qplayer

(5) Export

In Qplayer main UI, click File ()> Open File to located the backup file folder.

The functions of Qplayer will be described in following:



(2) Split Screen Mode		Select from 7 kinds of split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.			
Î	, , ,	ne of the video in the multiple-screen mode, double click on the only want to display.			
(3) Ca	amera list	Lists all cameras. Click + to expand the list. User can select and drag the camera to desire channel location.			
(4) Date and Time		It shows the current date and time.			

I	Export function includes 2 functions – Snapshot and Print.	

- **Snapshot:** Catch a static current screen image and save it as a *.JPEG or *.PNG file on local hard disk.
 - Print: Print out the current Qplayer screen.

Name	Function
(6) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for later reference (see also <u>Chapter</u> <u>5.1.1</u>).
(7) Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.
	Image: Contrast of the system of the syst
(8) System Information	Click it to view CMS system's version and copyright.

(9) Minimize

To minimize the Qplayer on the task tray.

Name	Function				
(10) Power button	Call up the Power dialog box.				
	In the Power dialog box, user may do the following:				
	Power				
	Exit Compact Login Cancel				
	- Exit: To shutdown the CMS system.				
	- Cancel: To exit Logout dialog box.				
(11) On Screen Keyboard	If the keyboard is not available, you may use the Virtual Keyboard.				
	Esc 1 2 3 4 5 6 7 8 9 0 - = <=				
(12) Status bar	Display the recorded date, time and play speed.				
(13) Playback Control	From left to right order:				
Buttons	Previous: Go back to the previous frame.				
	Slower: Play the recorded video file at the speed of 1/2x,				
	1/4x, or 1/8x. The playback speed will show on the screen.				
	Rewind: Wind back the recorded video file.				
	II Pause: Briefly stop playing the recorded video file.				
	Play: Play the recorded video file.				
	Faster: Play the recorded video file at the speed of 2x, 4x,				
	8x, 16x, 32x, or 64x. The playback speed will show on the				
	screen.				
	Next : Go to the next frame.				
(14) (Zoom in/Zoom out)	To expand the playback time bar from an hour to minute.				
(15) Close up progress bar	Click to close up the progress bar. Click again to open up.				

Name	Function
(16) Progress bar	Show the progress of the file being played. You may move the
	bar to seek at any location of the track.
	Using the Zoom In/Out button to expand the playback time from
	an hour to minute.
	1 1
	Meaning of color in progress bar:
	- Red: Sensor record
	- Green: Motion record
	- Blue: Always record(normal record)
	- Yellow: Video loss
	- White: No record date
	Meaning of color in progress bar: - Red: Sensor record - Green: Motion record - Blue: Always record(normal record) - Yellow: Video loss

(17) Calendar

Select the date on the calendar and the time to where to start playing the recorded video file. Click **OK** to start playback.



- Date: click the date on calendar to select. The date in blod text indicates there has recorded file. Click ③ and ③ icon to switch the date or click ▼ icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
- Time: In Time box, select the hour, minute, and second to setup the playback start up time.

				Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

4.2.6 Output a Video Clip

- 1. Switch the playback screen to 1 single screen display mode.
- 2. Using and a button to expand the time bar for easy to set the segment period.
- 3. Click \square \square (Segment) button to set the mark.
- Then, drag the ¬▼ 𝒫 mark (segment) to set video period portion. To cancel segmentation, click ¬▼ button (Segment) again.

0.00 1633-00	16 IŬ 00	16.05.00	26 00:00	13:33:00	15 50 00	340.00 1545.00	15.8.00	15:30:00	15:25:00	30
						15.45.05		Control Prints		-
										-

1013/201	11 15:50:18 =1	_	_	717	mp (e) = 1	2	_	_	
cameral	15:28:00	15.90.00	15.(\$100	15.40.00	15-65-00	15 58 <mark>0</mark> 00 38366 P	15.95-00	36.00.00	1648.00	16 IÌ) 00	1613-00	25
camera1 camera2 camera3	-				_							_
camera4				_	_	_		_	_	_	_	_

5. Click **Output Video Clip** button (

Server	DVR 1				
Start Date/Time	2014/01/28	16:01:49			
End Date/Time	2014/01/28	16:05:58			
Export Key F	rame Only				
Export Key Fi	rame Only ext (Including Came	era Name, Date	, POS Info	ormation)	
Export with T	Service and the service of the servi			ormation)	

- **Start Date/Time:** Displays the begin time and date of segment video file.
- **End Date/Time:** Displays the end time and date of segment video file.
- Export Key frame only: Only save the key frame of video segment; this can reduce the size of export video.
- Export with text(including camera name, date, POS information): Mark to export the camera name, date, and POS information and display on screen while playback.
- Save path: Where to save the segment video file. Click Rescan Device to detect the external USB pen drive if NVR system didn't detect it.
- Require Space: Displays the file size of segment video file. The information will display after select the channels in Advanced dialog box.

Advanced: To select the specific channels. Click **OK** to save the setting.

Server		DVR	1				
Start Date/Ti	me	201	4/01/2	8 -	16 -	01 -	49 -
End Date/Tin	201	4/01/2	8 -	16 -	05 -	58 *	
	2 [3	4	5		7	8
	10 [] 11	12	13	14	15	16
□ 9 □	10 [18 [11 19	□ 12 □ 20	□ 13 □ 21			16 24

- 6. Click **Export** button to save wanted segment portion.
- 7. To playback the output video clip, double-click the output video file (*.avi).

4.3 Compact Mode

The preview and playback are both supported compact mode. To switch to Compact mode, click power button (located at upper right corner) and select **Compact** button in Power dialog box.

User ID	admin			
Level	Administrator			

To switch back to Advance mode, click power button and select **Advanced** button.

User ID		admin			
Leve	I	Adminis	trator		

The following chapters will describe the function buttons on preview and playback compact mode.

4.3.1 Familiarizing Function in Preview Compact Mode



Name	Function
(1) Setup	Click Setup button to configure settings for cameras, recording,
	network, scheduler, backup, sensors, relays, alarms and user
	authentication(see also Chapter 6).
(2) Split Screen Mode	It provides 6 kinds of split display modes for your selection. User
	can select the split display modes by clicking the split mode
	icon. To reset all monitored cameras, select $\textcircled{ extsf{D}}$ and all camera
	channels will be cleared.
ດີ - When the NV	R system is in multiple-screen mode, user can click the video
screen of the c	amera and Drag on where user wants to relocate it.
- To only diaplay	and of the video in the multiple screen mode, double click on the

- To only display one of the video in the multiple-screen mode, **double click** on the video screen user only wants to display.

(3) AutoScan

Click it to start auto cycle display each channel.

Name	Function
(4) Full screen	Use the entire area of the screen to only display the video. To
	return, click the arrow icon at bottom of right.
	Click to switch back to normal display mode.
	When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(5) Snapshot	Catch a static recording image and save it as a *.JPG and
	*.PNG file in USB pen drive device or local hard disk drive (see
	also <u>Chapter 4.2.7</u>).
(6) System Information	Click it to view CMS system's version and copyright.
(b) bystem mornation	Information ×
	CM5000 Current Software Version 2.0.1030.35 Copy Right Intelectual Property Information for Aver Information Inc. Copyright © 2013 Aver Information Inc. A Rights Reserved. This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civi and criminal penalties. No part of this document may be reproduced or transmitted in any form, or by any means without the prior written permission CAVEr Information Inc. AVer Information Inc. reserves the rights to models, including
(7) Minimize	Minimizing the CMS system in system tray

(7) Minimize

Minimizing the CMS system in system tray.

Name	Function
(8) Power button	Call up the Power dialog box.
	In the Power dialog box, user may do the following:
	Power
	User ID admin Level Administrator
	Exit Advanced Login Cancel
	- Exit: To shutdown the CMS system.
	 Advanced: Switch to preview mode (advanced mode).
	 Login: To login in different account. Default user ID is admir and password is admin.
	- Cancel: To exit Power dialog box.
(9) Alarm Log Viewer	Click 🧊 button to view and search the alarm event logs (see
	also <u>Chapter 4.4.2</u>).



4.3.2 Familiarizing Function in Playback Compact Mode

Name	Function
(3) Full screen	Use the entire area of the screen to only display the video. To
(-)	return, press the right button of the mouse or ESC on the
	keyboard or click the arrow icon.
	Image: state of the state o
	When you switch to full screen in multiple-screen mode, Left
	click to toggle to only display one of the video in the
	multiple-screen mode or all.
(4) Snapshot	Catch a static recording image and save it as a *.JPG and
	*.PNG file in USB pen drive device or local hard disk drive.
(5) Bookmark	Mark a reference point when reviewing the recorded video file to
	which you may return for later reference (see also Chapter
	<u>4.2.3</u>).
(6) Backup	Save the playback file to USB pen drive or local hard disk (see
	also <u>Chapter 4.2.4)</u> .
(7) System Information	Click it to view NVR system's version and copyright.
	This program is protected by copyright law and international treates. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe divid and criminal penalties. No part of this document may be reproduced or transmitted in any form, or by any means without the prior written permission of AVer Information Inc. AVer Information Inc. reserves the rights to modfy its modes, including

Name	Function						
(8) Minimize	Minimizing the CMS system in system tray.						
(9) Power button	Call up the Power dialog box.						
	In the Power dialog box, user may do the following:						
	Power						
	User ID admin						
	Level Administrator						
	Exit Advanced Login Cancel						
	- Exit: To shutdown the CMS system.						
	- Advance: Switch to preview mode (advance mode).						
	- Cancel: To exit Power dialog box.						
(10) Alarm Log Viewer	Click 🧊 button to view and search the alarm event logs (see						
	also <u>Chapter 4.4.2</u>).						
(11) Playback Control	From left to right order:						
Buttons	Previous: Go back to the previous frame.						
	Slower: Play the recorded video file at the speed of 1/2x,						
	1/4x, or 1/8x. The play speed will show on the screen.						
	Rewind: Wind back the recorded video file.						
	I Pause: Briefly stop playing the recorded video file.						
	Play: Play the recorded video file.						
	Faster: Play the recorded video file at the speed of 2x, 4x,						
	8x, 16x, 32x, or 64x. The play speed will show on the						
	screen.						
	Next : Go to the next frame.						
(12) 🔤 / 🚎	To support the state has been for a set base to set out						
(Zoom in/Zoom out)	To expand the playback time bar from an hour to minute.						
(13) Progress bar	Show the progress of the file being played. You may move the						
	bar to seek at any location of the track.						
	Using the Zoom In/Out button to expand the playback time from an hour to minute.						
	Display the recorded date, time and play speed.						

Name	Function									
(15) Date	 Select the date on the calendar and the time to where to start playing the recorded video file. Date: click the date on calendar to select. The date in blod text indicates there has recorded file. Click and icon to switch the date or click ▼ icon next to month to select the month. To switch the year, click on the text of year and click spin button to select. Time: In Time box, select the hour, minute, and second to 									
	S	setup the playback start up time.								
	G	January, 2014					0			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat			
	29	30	31	1	2	3	4			
	5	6	7	8	9	10	11			
	12	13	14	15	16	17	18			
	19	20	21	22	23	24	25			
	26	27	28	29	30	31	1			
	2	3	4	5	6	7	8			
16:07:48							ОК			

4.4 Log Viewer

Show the record of activities (alarm, event, iPOS) that take place in the system. User can view and search for specific log. The following descriptions and figures are based on preview mode.

4.4.1 Using the Event Log Viewer

The event log viewer is supported in preview mode only.

- Click the Event Log Viewer () button in preview mode. 1.
- The Event Log Viewer dialog box is appeared and located at bottom of left side screen. 2.

User can click 🗗 icon to expand the Event Log Viewer dialog box on the screen.


3. To filter the logs, select and click the select **Type -- System**, **Network**, **Operation**, **Event**, or **All**.

Server Name DVR 1 Type AI Type AI Start Date/Time 2014/01/27 16:19:41 Keyword Search Search Result No. Server Name Camera Type Time Event	earch (Condition —		26		
Start Date/Time 2014/01/27 * 16:19:41 End Date/Time 2014/01/28 * 16:19:41 Keyword			Server Name	DVR 1		•
End Date/Time 2014/01/28 16:19:41 Keyword Search Result			Туре	Al		•
Keyword Search			Start Date/Time	2014/01/27 -	16:19:41	A. Y
Search Result			End Date/Time	2014/01/28 -	16:19:41	* *
zarch Result			Keyword			1
zarch Result					Foorg	
					Jearc	
No. Server Name Camera Type Time Event	earch F	tesult				
	No.	Server Na	me Camera	Type	Time	Event

- 4. Set the Start Date/Time and End Date/Time period to search the logs.
- 5. User also can search specific logs by specific **Keyword**.
- 6. Click **Search** button to start searching. The search results are displayed in the below column. Click **More** button to display more event logs.

Search	Condition		20			
	S	erver Name	DVR 1		-	
	т	ype	Al		-	
	S	tart Date/Time	2014/01/27	• 16:1	9:41 🗘	
	E	nd Date/Time	2014/01/28	• 16:1	9:41 🗘	
	к	eyword				
					Search	
					Scarch	
Bearch	Result					
No.	Server Name	e Camera	Туре		Time	Event
1	DVR 1		Operation	2014/01	/27 17:12:25	Enter play
2	DVR 1	01	Event	2014/01	/27 18:07:09	Video Loss
3	DVR 1	03	Event	2014/01	/27 18:19:39	Video Loss

7. Click on the event log can view the log video. The screen will switch to Event log playback screen.



8. Click **Export** button can output the log result list to local hard disk drive or external USB pen drive in *.cvs file format.

4.4.2 Using the Alarm Log Viewer

The alarm log viewer is both supported in preview and playback mode.

Viewing the Alarm Event

Alert and display warning information.

- 1. Click Alarm (🔳) button on preview or playback mode.
- 2. The Alarm Log Viewer dialog box is appeared and located at bottom of left side screen.

 \hat{n} User can click 🖃 icon to expand the Alarm Log Viewer dialog box on the screen.

3. Then, click Event tab to view all alarm events.



- 4. Clicking Alarm reset button to reset all alarm event status.
- 5. Clicking **Refresh** button to refresh the alarm events list.

vent	Search			
No.	Camera	Time ∇	Event	-
01		2013/04/08 10:23:13	Alarm reset.	
02		2013/04/08 10:15:30	Alarm reset.	
03		2013/04/03 18:00:00	Alarm reset.	
04		2013/04/03 17:00:00	Alarm reset.	
05		2013/04/03 16:00:01	Alarm reset.	
06		2013/04/03 15:00:00	Alarm reset.	
07		2013/04/03 14:00:00	Alarm reset.	1111
08		2013/04/03 13:00:00	Alarm reset.	
09		2013/04/03 12:00:00	Alarm reset.	
10		2013/04/03 11:00:00	Alarm reset.	
11		2013/04/03 10:00:00	Alarm reset.	
12		2013/04/03 09:00:02	Alarm reset.	
13	04	2013/04/03 09:00:01	Camera <04> video loss !!!	
14	03	2013/04/03 09:00:01	Camera <03> video loss !!!	
15	02	2013/04/03 09:00:01	Camera <02> video loss !!!	
16	01	2013/04/03 09:00:01	Camera <01> video loss !!!	
17	04	2013/04/03 09:00:00	Camera <04> video loss !!!	÷

6. Double-click on alarm event can playback the event video.



Searching the Alarm Event Logs

Searching the specific alarm event.

n

- 1. Click Alarm (🔲) button on preview or playback mode.
- 2. The Alarm Log Viewer dialog box is appeared and located at bottom of left side screen.

User can click 🗗 icon to expand the Alarm Log Viewer dialog box on the screen.

3. Then, click **Search** tab in Alarm Log Viewer dialog box.

Image: Contract of the sense of the sen	Setup	СМ5000							4 -
 B anes/ B anes/	Treview	😨 Playback	Page.01) 🗑 🗙 🔞 🗆
 B anes/ B anes/	- A DVR 1		A conternat	4×E	k constat	中日大日の	oraŭ .	小田大ののかり	
 B anes/ B anes/	> Kamer	ral	111					- ANDER	I THE REAL
 Grands Grands	Image:	ra2	120			AR AR 454 3			and I would
 Barandi Barandi Saran			CONTRACTOR OF STREET,		A Man Main				
 Barandi Barandi Saran			A second	Aster					
 Barandi Barandi Saran								Non mole	A State of the second
Constant									a the second
Bandal			1- Martin	1945					100
 Constitution Const				Charles 1				de la constante	
Head State H					Im I	- A - March	11		
Branstit Branstit Dramstit	> Kill camer	ra11	大 centered	(e)	大 carearan	中日大福和	ave7	中日大 coverage	
B Canada						24 84			A TRUE
Branstit			12						A STATE OF THE STATE
A DEC TO DE LA DESTINACIÓN DE					A CONTRACTOR				
A DEC TO DE LA DESTINACIÓN DE			Sausta 1/1	1 Patrice				Tel lon	0-1-1-1
A DEC TO DE LA DESTINACIÓN DE	Fall camer	ra16		and the second				NO TO CO	All adda the
Na cardina de la				1 Lander					TY O
Na cardina de la				Aller		7			19
Na cardina de la								A AND AND	
Na cardina de la					I LUN	4 5 A m		the barrents	
Na cardina de la					43 Trans	THE A GEAR	Marts	THE A GUINE HIS	NAME OF TAXABLE PARTY.
time La were trained and the second	0 0701	800.m 808.e.				M M			
Res Cardina Ca	Alarm Log View	wer						144	
Sire fame Ones Greek Sire fame Sire fami Sire fami Sire fami Sire fami Sire fami	Event Search		Sausitta	T Para					S. AL
Sire fame Ones Greek Sire fame Sire fami Sire fami Sire fami Sire fami Sire fami	Search Condi	tion			SEL CO				Al alan
Conset Mexic Sale Dar Prine Sale Dar Prine				A AND I					
Seed •	DVR 1	•		A		7			2.7
214640/27 • 12564 10460/28 • 12564 10460	Camera							-	
214640/27 • 12564 10460/28 • 12564 10460	Select			10 E	A consecutive	40 Fil & com	and a second sec	to El A comment	
214640/27 • 12564 10460/28 • 12564 10460	Start Date/Tim		Link in and		43 Dames				THE PARTY OF THE PARTY OF
	2014/01/27	7 • 17:30:43				M M			A THE CONTRACT
AVer All All All All All All All All All Al	End Date/Time	e				2 - C - C - C - C - C - C - C - C - C -			CONTRACTOR
AVer All All All All All All All All All Al	2014/01/28	8 • 17:30:43		1 2	ALL ALL				
AVer All All All All All All All All All Al	Keyword		NESSO (1)			AT A STATE		a a	9 6 9 9
AVer All All All All All All All All All Al	luc:			and the second					A CANA
		AVOr	1200	-102					100
TALAN DOE STORAGE			一 四	A Star				1	5
	20	14/01/28 17:34:41			Im I	1 4			

4. In Alarm Log Viewer dialog box, select the **Camera** that user wants to search. Multiple cameras selection is allowed.

vent	Search			
Sea	rch Conditi	on		
		Camera Start Date/Time End Date/Time	Select Camera 1 Camera 2 Camera 3 Camera 4 Camera 5	
-	rch Result -	Keyword	Camera 6	Search

- 5. Set the searching period at **Start Date/Time** and **End Date/Time** column.
- 6. Searching by specific keyword, enter the keyword in **Keyword** column.
- 7. Click Search button to start searching.
- 8. The search result will list in below column. Click **More** button to display more event logs.

vent	Search							
Sea	ch Cond	ition						
		C	amera	Camera 1 0	Camera	2	💌	
		S	art Date/Time	2013/04/02	2 -	20:30:07	-	
		E	nd Date/Time	2013/04/02	2 -	20:32:07	-	
		К	eyword					
						-		
						Sea	rch	
_	ch Resu				-			
No		amera	Tin				rent	
01	02		2013/04/02 2	0:30:07	Camer	ra <02> vide	o loss !!!	
02	03		2013/04/02 2	0:30:07	Came	a <03> vide	o loss !!!	
03	04		2013/04/02 2	0:30:07	Came	a <04> vide	o loss !!!	
04	01		2013/04/02 2	0:30:08	Came	a <01> vide	o loss !!!	
05	02		2013/04/02 2	0:30:08	Came	a <02> vide	o loss !!!	
06	03		2013/04/02 2	0:30:08	Came	a <03> vide	o loss !!!	
07	04		2013/04/02 2	0:30:08	Came	a <04> vide	o loss !!!	
08	01		2013/04/02 2	0:30:09	Came	a <01> vide	o loss !!!	
na	02		2013/04/02 2	0.30.00	Camo	-07 vida	loss III	•

- 9. Click **Export** button can save the search result list to external USB pen drive.
- 10. Double-click on alarm event can playback the event video.



4.4.3 Using the POS Log Viewer

Search the iPOS event.

- 1. Click POS Log Viewer (💼) button on preview or playback mode.
- 2. The POS Viewer dialog box is appeared and located at bottom of left side screen.



User can click \blacksquare icon to expand the POS Log Viewer dialog box on the screen.



- 3. In POSViewer dialog box, select the Camera that user wants to search.
- 4. Set the searching period at Start Date/Time and End Date/Time column.
- Searching by specific keyword, enter the keyword in Keyword column. Mark Match whole words exactly option to 100% match the keyword that user has entered.
- Click Search button to start searching. The search result will list in below column. Click More button to display more event logs.
- 7. Click **Export** button can save the search result to external USB pen drive.

iearch Ce	ondition						
		Camera	Select		- 11	•	
		Start Date/Time	2013/04/07 -	11:15:	52		
		End Date/Time	2013/04/08	11:15:	52	٩	
		Keyword					
			Match whole wor	d exactly			
					Sear	ch	
	11.121						
iearch R							
No. /	Camera	Time		8	051	Data	
NO. /	Camera	Tame		\$	OS I	Data	
(16), /	Camera	Time		5	051	Data	
160. /	Camera	Tame		5	051	Data	

4.5 Snapshot the Screen

Taking a quick capture of current display screen and save in *.jpg and *.PNG format to local hard disk.

1. In preview or playback mode, Click the snapshot icon (i) and the save as dialog box is

appeared.

- 2. User can rename the File name. Default file name is "snapshot.jpg".
- 3. Select the save location.
- 4. Click Save button to save the captured image file to selected location.
- 5. The captured screen is looks like the figure below.



Preview mode

Chapter 5 Customizing the CMS System

User can setup language of CMS system, export/import configuration file, manage user accounts, and monitor setting.

Click **Setup** tab to call out Setup window. Click **Exit** button will close the Setup window and back to preview window.

() tetu) CM5000	
d¶ est	
Setting + CHS Setting	
	CMS Setting
	General User Ransgement Honitor
	General User Hanagement Homitor
	System Name CM5000
	Current Software Version 2.0.1030.35
	Language Engkh •
	Configuration
	Import Export
	Apply Cancel

5.1 Setup the Language of CMS System

- 1. Click Setup tab to call out setup mode of CMS system.
- 2. In CMS Setting dialog box, select the system language from Language drop-down list.
- 3. Click Apply to save the setting.

System Name	CM5000	
Current Software Version	2.0.1030.35	
Language		
Language	English	•
Configuration		
	Import Export	

5.2 Import/Export the System Configuration

Click Setup tab to call out setup mode of CMS system.

- Import: To regain the same settings back from previously backup configuration file.
- **Export:** Backup a copy of all the settings and allows user to regain the same settings back.

eneral	User Management	Monitor		
Syste	m Information			
Syste	em Name	CM5000		
Curre	ent Software Version	2.0.1030.3	5	
Langu	Jage			
Langu	iage		English	•
Confi	guration			
		Import	Export	
-				
				Apply Cancel

5.3 User Account Management

User can create the user accounts for logging to CMS system.

- 1. Click Setup tab to call out setup mode of CMS system.
- 2. In CMS Setting page, click User Management tab.

eneral	User M	1anagem	ent Monitor		
User 1	Inform	ation —			
Sort	by No.	•			
Selec	t No.	Name	Level	Description	
	1	admin	Administrator	Admin	
User S	Setting	j			Add Delete
Descri					
Passw Confir	ord m Pass	word			
Auti		ion Leve	el O Administ	rator	
	trol Riq etup				
□s	layback				

- 3. Enter the Name, Description, Password, and Confirm Password for the new user account.
- 4. Select the Authorization Level User or Administrator.
- Select the Control Right Setup, Playback or Preview. The user level authority is preview in default.
- 6. Click Apply to create the account.
- 7. The user accounts are listed in User Information section.

eneral	User N	lanagen	nent Monitor		
User I	nform	ation –		μ	
Sort b	by No.	•			
Selec	t No.	Name	Level	Description	
	1	admin	Administrator	Admin	
	2	Guest	User		
-					
User S Name Descrij	ption				Add Delete
Name Descrij Passwe Confirr	ption ord m Pass iorizat		rel ⊙ Administ	rator	Add Delete
Name Descrip Passwo Confirm Auth Ut	ption ord m Pass norizat ser trol Rig	word		rator	Add Delete

- 8. To create another user account, click Add to clear previous enter information and repeat above steps.
- 9. To delete the user account, select the user account and click **Delete** button.

5.4 Setup Monitor

The CMS system supports up to 4 monitors. User can setup each monitor for different display. Click **Setup** tab to call out setup mode of CMS system. In CMS Setting page, click **Monitor** tab. The CMS system will detect the monitors automatically. User can set each monitor to display different function of UI – Preview, Playback, Emap, Alarm, POS, Event Log. Only preview UI can be set in multiple monitors. Emap, Alarm, Event log, POS button only show in main monitor (Monitor 1).

	User Manag	ement Monito	or	
Monit	or 2			
Display	Disable	*		
Monit	or 3			
Display	Disable	*		
Monit	or 4			
Display	Disable	*		

Chapter 6 Customizing the Remote NVR/DVR Server

CMS system allows user to setup and modify settings of monitored NVR/DVR servers.

- 1. Click Setup tab to call out setup mode of CMS system.
- Click ▷ of CMS Setting and click ▷ of NVR Management to expand the NVR/DVR server list.
- Select the NVR/DVR server that user wants to configure and switch to the NVR/DVR server setup window.
- 4. To backup CMS setup window, click Back buton.

CM5000		
Back		
ced DVR Setting		
9		
F2SA		
System Setting		
Kamera Management		
1 Aarm Setting		
2 User Setting		
Schedule Setting		
	F25A	1
	E25A	
	Server Name	F2SA
	Current Firmware Version	2.1.1014.16
	IPCam Module	1.7.103.2
	Received Bandwidth	1293059 Bps
	Transmitting Bandwidth	105689 Bps
	Temperature	40 T / 104 T
	reinpelatore	40 0 / 104 F

6.1 Configuring the Remote NVR/DVR Server

6.1.1 System Setup

- 1. Click Setup tab to call out setup mode of CMS system.
- Click ▷ of CMS Setting and click ▷ of NVR Management to expand the NVR/DVR server list.
- Select the NVR/DVR server that user wants to configure and switch to the NVR/DVR server setup window.

In Setup mode, user should see the **System Information** dialog box is displayed at the first place. In System Information dialog box, it displays the information of *Server name*, *Current Firmware Version*, *IPCam Module*, *Received Bandwidth*, *Transmitting Bandwidth*, and *Temperature*.

The setup sections are divided into System Setting, Camera Management, Alarm Setting, User Setting, and Schedule Setting.

In the following chapters will describe all.

() Setup) CM5000			
Best			
Advanced DVR Setting			
Setting			
# # #25A			
System Setting			
Ke Camera Management			
10€ Aarm Setting ► 28 User Setting			
 Schedule Setting 			
	F25A		
		1	
	Server Name	F25A	
	Current Firmware Version	2.1.1014.16	
	IPCam Module	1.7.103.2	
	Received Bandwidth	1293059 Bps	
	Transmitting Bandwidth	105688 Bps	
	Temperature	40 ℃ / 104 平	
	1		

General System Setting

Setup the language of NVR system, video type, system date and time, synchronize the system time.

In System Configuration dialog box, click **General** tab. After changing the settings, click **Apply** button to save the settings. To un-save the new settings, click **Cancel** button.



- Language: Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
- Date/Time: Select the date and time where NVR is located. Click S and S icon to switch the month or click ▼ icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
- Video Format: Change and select the proper video system according to your camera video system. If the video system setting is wrong, the video would appear abnormal.
- Synchronize with Time Server: Adjust the NVR system time same as network time server.
 - > **Time Server:** Fill in the Time Server IP address or domain name.
 - Automatic synchronize at: Select Automatic Synchronize time to set automatic synchronize time on a daily basis.
- Update Now: User can click Update Now button to adjust time right away.

System Advanced Setting

In Advanced of System Configuration, user can setup the daylight saving time, system login setting, and some other system related setting.

In System Configuration dialog box, click Advanced tab.

After changing the settings, click **Apply** button to save the settings. To un-save the new settings, click **Cancel** button.



Daylight Saving Time Setting

User can setup daylight saving mode as user is desired.

- 1. Select the mode of Daylight saving.
 - > Mode 1: Mode 1 is setting up specific start date/time and end date/time.
 - Mode 2: Mode 2 is setting up fixed day of month in every year for start and end date/time.
- 2. Setup the Star Date/Time and End Date/Time for Daylight saving period.
- 3. **Daylight Bias:** Assign a time that it is for daylight saving time offset in your time zone. For example: if the time zone is in U.S. Eastern, the time offset is 1 hour.
- 4. Click Apply to save the setting.

neral	Advanced	Config/Update
	ylight Savir	ng Time
	lode1	
Star	t Date/Time	2014/1/27 🔹 11:26:09 🛓
End	Date/Time	2014/1/27 💌 11:26:09 🗼
Day	light Bias	
-0 M	lode2	
Star	t Date/Time	January 💌 first 💌 Sun 💌 17 🛓
End	Date/Time	January * first * Sun * 17 *
	light Bias	00 A Hrs.
Login Defau Miscel AutoS	to login after It User Ilaneous Se	system boot up admin • tting
Login Aut Defau Miscel AutoS Playba	to login after It User Ilaneous Se can Period ack Mode [system boot up admin tting 3

Customizing System Login Setting

Enable the conditions in Login section you want the system to automatically carry out. Click **Apply** to save the setting.

- Auto Login after system boot up: Execute the NVR when the operating system is started.
- Default user: Automatically log in to the selected default user when the NVR system is executed.

neral	Advanced	Config/Update
Day	y <mark>light Savi</mark> r	ng Time
_⊡ M	lode1 —	
Starl	t Date/Time	2014/1/27 💌 11:26:09 🗼
End	Date/Time	2014/1/27 🔹 11:26:09 🗼
Dayl	ight Bias	
M	lode2	
Starl	t Date/Time	January • first • Sun • 17 +
End	Date/Time	January 👻 first 💌 Sun 👻 17 👻
Dayl	ight Bias	January first * Sun * 17 * 00 $\frac{1}{2}$ Hrs. * </th
Dayl	ight Bias to login after t User (laneous Se can Period	00 ↓ Hrs.
Dayl	ight Bias to login after It User (Ianeous Se can Period ack Mode (00 Hrs.

Customizing System Miscellaneous Setting

Enable the conditions in **Miscellaneous** section you want the system to perform. Click **Apply** to save the setting.

- Auto Scan Period: Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.
- Playback Mode:

Select the mode of playback the video.

- ✓ Select date and time: Select the date and time which user wants to playback.
- ✓ Play the last file: Automatically playback the video from the last hour
- ✓ Instant Playback: Automatically playback the video which has just recorded.
- Date Format: Select the date format which wants to display in Select date and time playback mode

	Advanced	Config/Update
1000 Series	ylight Savir Iode1	ng Time
		2014/1/27 🔹 11:26:09 🗼
End	Date/Time	2014/1/27 🔹 11:26:09 🗼
Day	light Bias	
no M	lode2	
Star	t Date/Time	January
End	Date/Time	January 🔻 first 🔹 Sun 👻 17 🛓
Day	light Bias	00 * Hrs.
Login		
Defau Misce l AutoS Playba	to login after It User (laneous Se can Period ack Mode (3 ⊕ Instant playback ▼
Aut Defau Miscel AutoS Playba	to login after It User (laneous Se can Period ack Mode (admin tting

Configuration Update

In Configure Update, user can import the backup configure file to NVR system and export the configure file. Also, user can update the NVR system's firmware and IP camera patch file.

In System Configuration dialog box, click Configure/Update tab.

CM5000	
But	
Advanced DVR Setting	
Setting	
・ 置 F25A ・ 圏 System Setting	
A R System Setting	
System Configuration	
Network	
Storage	
Randware Device	
Mg Camera Management	System Configuration
🙀 Alarm Setting	General Advanced Config/Update
b Setting	
🕫 🎆 Schedule Setting	Version
	Firmware 2.1.1014.16 Update
	IPcam Nodule 1.7.103.2 Update
	Configuration
	Import Export

Import the NVR System Configuration

To regain the same settings back from previously backup configuration file.

1. Copy the backup configuration file that user has exported previously to PC.

General	Advanced	Config/Update		
Versio	on	**********		
Firmw	are 2.	1.1014.16	Update	
IPcam	Module 1.	7.103.2	Update	
Config	juration —	Import E	xport	

- 2. In Configure/Update page, click Import button in Configuration section.
- 3. In Import dialog box, select the backup configuration file path.
- 4. Then, click Import button to import the configuration file.

Export the NVR System Configuration

Backup a copy of all the settings and allows you to regain the same settings back.

1. In Configure/Update page, click **Export** button in Configuration section.

General	Advanc	ed	Config/	Update			
Versio	on —						
Firmw	are	2.1.	1014.1	5	Up	date	
IPcam	Module	1.7.	103.2		Up	date	
Config	guration	-	T	nport	xport		
			[1	nport			

- 2. In Export dialog box, select the save path for saving the backup configuration file.
- 3. Next, click Export button.
- To restore the backup configuration file to NVR system, refer to chapter of *Import the NVR* System Configuration.

Upgrading the NVR Firmware

To update the firmware of NVR system.

- Plug the USB pen drive that contains the NVR firmware file or copy the firmware file to local hard disk drive. To get the newest NVR firmware, go to website <u>http://www.aver.com</u> > Support > Download center.
- 2. In Configure/Update page, click **Update** button of Firmware.

General	Advand	ed	Config/	Update					
Versio	n				_		_		
Firmw	are	2.1	1014.16	5	- [I	Updat	e		
IPcam	Module	1.7.	103.2			Updat	e		
Config	juration	1				_		 	
			Ir	nport	Ехро	rt			

- 3. In upgrade dialog box, locate the firmware file. The system will check the firmware file and shows the firmware file name and version information.
- 4. Click Upgrade button to process.

Upgrading the IP Camera Module Patch

To update the firmware of NVR/DVR system.

- 1. Plug the USB pen drive that contains the IP camera patch file or copy the firmware file to local hard disk drive.
- 2. In Configure/Update page, click Update button of IPCam Module.

General	Advanced	Config/Update	
Versio	on —		
Firmw	are 2	.1.1014.16 Update	
IPcam	Module 1	.7.103.2 Update	
Confi	guration –	Import Export	
		Export	

- 3. In upgrade dialog box, locate the IP camera patch file. The NVR system will check the patch file and show the patch file name, and version information.
- 4. Click Upgrade button to process.

6.2.2 Network Setting

Select type of IP mode, setup the IP address of NVR/DVR, and configure the DDNS.

() Setter) CM5000	
But	
Advanced DVR Setting	
Setting	
Setto 4 7524 4 7524 5 7525 5 7555 5 7555	Network Advance With days 0 bit 16 42 42 52 70 O land: P 0 close O land: P 0 close P land: P 0 close
	Set as Default Gateway
	0 PMv6 PMv6 Pmv6 Pmv6 Pmv6 Pmv6 Pmmv6 Pmmv
	DORS
	Domain Name
	ID
	Password
	Server Name dyndms.org •
	Server Port 80
	an Apply Cancel Refresh

- 1. In Network dialog box, click Networking 1 tab.
- 2. MAC Address: Displays the MAC address of Ethernet port on LAN card.
- 3. Select the IP mode Static IP, DHCP, PPPOE.
 - > Static IP: Assign a fixed IP address for NVR server
 - **IP ADDRESS:** Assign a constant IP address which a real IP addresses given from ISP.



Do Not assign the NVR server to 1.0.0.0 network segment. It will be caused the NVR cannot access to Internet due to the un-recognize to 1.0.0.0 IP segment.

- Mask: It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to NVR system.
- Gateway: A network device act as a passageway to internet. Enter the network gateway IP address
- **DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
- > **DHCP:** Uses DHCP server assigning NVR server an IP address.

- PPPoE: Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE mode. Enter User ID and Password that is given by your ISP for PPPOE connecting authority.
- 4. Set as default gateway: The NVR system supports dual LANs, but only one LAN port can be set as default gateway.
- 5. Setup the DDNS. To use this feature, go to http://dyndns.org register. Only the LAN port is set as default gateway can be set DDNS function.
 - > **Domain Name:** The user has applied on DDNS website.
 - > ID: The account ID that user has created on DDNS website.
 - > **Password:** The password that user has setup on DDNS website.
 - > Server Name: The domain name server that user has applied the domain name.
 - > Server Port: The port is use to connect the domain name server.
- 6. After enter all necessary information, click Apply button to save the settings.
- 7. To setup the Network 2, click Network 2 tab and follow above steps.

letwork1	Netw	ork2	Advanced	i		
MAC Addre	ess 00	-18-1a	-62-82-a	9		-
Static IF	P					
O DHCP						
IP Infor	matio	n—				
IP 1	192.16	8.222.	111	Gateway	192.168.222.254	
Mask 2	255.25	5.255.	0	DNS		
Set as	Defau	It Gate	way			
			10000			
O PPPOE						
PPPoE						
PPPoE	d [
User ID Password						
PPPoE – User ID Password						
PPPoE – User ID Password DDNS – Domain I	Name					
PPPoE User ID Password DDNS Domain I ID	Name		dns.org			

Setup the NVR Server Name

Assign a name for the NVR system. Alphabet letters and numbers only.

- 1. In Network dialog box, enter the desire name in Server Name column.
- 2. Click **Apply** button to save the settings.

	L Netw	ork2	Advanced		
MAC Add	tress 00	-18-1	a-62-82-2	9	
O Statio	IP				
	b				
IP Inf	ormatio	n—			
IP	10.100).91.	54	Gateway	10 .100.91 .254
Mask	255.25	5.255	5.0	DNS	10.100.1 .5
User II					
Passwi					
DDNS		-			
DDNS Domai	n Name				
DDNS	n Name				
DDNS Domai					
DDNS Domai ID	ord	dyr	ndns.org		

Network Advanced Setting

User can setup camera transmitting, UPnP function, bandwidth limit setting, and network port setting.

- 1. In Network dialog box, click Advanced tab.
- 2. Click Setting to configure.

erver Nam	e		
		vanced	
UPnP	ng Cameras Iandwidth Limit	Setting Setting Setting	
Network F	ort	Setting	

Setup the Transmitting Camera

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using Remote site control and iPhone/Andorid Viewer. To select all the cameras, enable the **ALL** check box.

🗹 A	АШ									
I	1 🗹	2	•	3	•	4	5	6	7	8
I 9	•	10		11		12	13	14	15	16

Setup the UPnP

Assign a port number of NVR for UPnP service. Click **OK** to save the setting.

This function is working when the router had enabled the UPNP function and had opened the port, which had assigned for UPNP setting, for the DVR system.

🗌 Enable	UPnP	
Port 80		
		 2

Setup the Bandwidth Limit

Set the network bandwidth consumption limit for remote accessing. Click **OK** to save the setting.

🗌 Enable I	Bandwidth Lim	it
Total Limit	1024	KB/s

Setup the Network Port

Assign a **Network Port** for remote accessing connection.

ort Setting		
Network Port 80		
	DK Ca	ncel

6.2.3 Storage Setting

In storage setting, user can add the storage path, remove the storage path, format hard disk, and set the hard disk recycle time.

In setup mode, select the DVR/NVR server and click Storage selection.



Setup Hard Disk and Event Log Recycle Time

- Delete recorded after Days: If user wants the system to automatically erase the data after a certain days, enable the Delete recorded data after check box and enter the numbers of days in Days text box.
- Delete event and alarm log after Days: If you want the system to automatically erase the event and alarm log after a certain days, enable the Delete event and alarm log after check box and enter the numbers of days in Days text box.

ystem HDD List					
Name	Туре	Capacity	Free Space	Status	S.M.A.R.T.
SATA-3 WD10EALX-559BA0	N/A	953869 MB	788863 MB	Normal	ок
Hard Disk Calculator					

Hard Disk Calculator

Estimate the hard disk recording capacity. The result of calculation is a rough value which only for reference. The hard disk record capacity will be varied by the real record quality and complexity of video scene.

1. In Storage Setting dialog box, click Hard disk calculator button.

System HDD List					
Name	Туре	Capacity	Free Space	Status	S.M.A.R.T.
SATA-3 WD10EALX-559BA0	N/A	953869 MB	788863 MB	Normal	ок
Hard Disk Calculator					
Hard Disk Calculator	fter	7	Days		

2. In Hard Disk Calculator dialog box, enter the expect hard disk size in Expected HD Size(GB) or expect recording time in Expected Record Time(Days), and then click Calculate button. The Total Recording time(Days) column is displayed the current hard disk recording capacity. Click OK to exit the hard disk calculator window. The hard disk calculation is based on the recording setup and current hard disk capability.

otal Recording Time (Days)	8.7~11.1
HDD Calculator	
Expected HD Size (GB)	
Estimated Recording Time (Da	ys)
	Calculator
The HDD size required for your his calculated result due to var complexity and combinatorial s nstallation sites. It is user's resp letermine appropriate HDD size	ieties of surveillance scenes ettings used in the actual onsibility to verify and

6.2.4 Camera Setting

To connect and configure the IP camera.

In setup mode, select the DVR/NVR server and click Camera Setting.

anced DVR Setting	Camera Management				
9					
F2SA	- Camera List				
System Setting		IP Address Protocol	Model Status	FPS Btrate	
Camera Management					
Ng Camera 2	1 P 10.100.91.29	Aver	FIG000-R Connected		
Kg Camera 3	2 IP • 10.100.91.48	Aver	FB3027 Connected	23 2687894	4 Detail
Ng Camera 4	3 P • 10.100.91.45	AVer	FB3027 Connected	11 1233878	8 Detail
Ng Camera S	4 10 -		Fail	0 0	Detail
Camera 6				0 0	
Kill Camera 7	5 P •		Fal		Detail
Kig Camera 8	6 P *		Fal	0 0	Detai
Kamera 9	7 p •		Fal	0 0	Detail
Camera 10	8 29 -		Fal	0 0	Detail
Kg Camera 11	0		Eal	0 0	Detail
Camera 12					
Ke Camera 13	10 19 •		Fal	0 0	Detail
No Camera 14	11 P •		Fal	0 0	Detail
🗟 Schedule Setting	Camera Information Name Padress Poto Poto Poto Model IB002/1 Use Fame Peterson		_		
	Add to Camera 01 *				

Connecting an IP Camera

or a Cattle

- 1. In setup mode, select the NVR/DVR server and click the Camera Setting.
- 2. In Camera Information page is divided into 4 areas –, Camera List, Search List, and Capacity, and Camera Information
 - **Camera List:** List all camera channels. When the channel has connected IP camera, it displays the IP Address, Protocol, Model, connection Status, FPS, Bitrate, and configure detail button of the connected IP camera.
 - Search List: To perform the auto search IP camera on your LAN network and list search result.
 - **Capacity:** Display all connected IP cameras' resolution in Used (MP) column and the how many resolutions are available in Available (MP) column.
 - Camera Information: For entering the IP camera's parameters when connects the IP camera.

No.	Type	IP Address	Protoc	Model	Status	FPS	Bitrate	Detail	1
1	IP	10.100.91.61	AVer	SF1311H	Connected	14	28980	Detail	
2	P	10.100.91.61	AVer	SF1311H	Connected	14	28980	Detail	
3	IP	10.100.91.85	AVer	FB3027	Connected	26	33861	Detail	
4	₽	10.100.91.88	AVer	FD3020	Connected	27	27708	Detail	
5	IP	10.100.91.76	AVer	FB2027-2	Connected	27	27237	Detail	
6	IP		AXIS	207MW	Fail	0	0	Detail	
7	IP		AXIS	207MW	Fal	0	0	Detail	
8	P		AXIS	207MW	Fal	0	0	Detail	
9	IP		AXIS	207MW	Fail	0	0	Detail	
10	IP		AXIS	207MW	Fail	0	0	Detail	
11	IP		AXIS	207MW	Fal	0	0	Detail	
	IP		AXIS	207MW	Fail	0	0	Detail	
12	-								
13 apa	IP city ts	Used(MP) Available(MP) 154 / 31.66 No. ^ IP Address Port Prot	AXIS	20.7MW	Fal	0	0	Detai	×
13 Capa Al Cr Came	IP city — ts era In t ktress	Used(MP) Available(MP) 1.54 / 31.66 Search ActiveIP	AXIS	207MW	Fal	0	0	Detai	
13 Capa All Ch Came Name IP Ad Port	IP city ts era In to chess xcol	Used(MP) Available(MP) 154 / 31.66 formation 80 ©	AXIS	207MW	Fal	0	0	Detai	N N
13 Capa All C- Came Name Port Proto Mode	IP city ts era In t dress xcol f chan	Used(#P) Available(#P) <u>154</u> / 31.66 formation 80 80 Aver w Fe2027-1 w	AXIS	207MW	Fal	0	0	Detai	8
13 Capa All Cr Came Name IP Ad Port Proto Mode User	IP city	Used(#P) Available(#P) <u>154</u> / 31.66 formation 80 80 Aver w Fe2027-1 w	AXIS	207MW	Fal	0	0	Detai	8
13 Capa All C- Came Name IP Ad Port Port Widec User Passi	IP city – fs era In t kdress cool fl o Charn Name word	Used(#P) Available(#P) <u>154</u> / 31.66 formation 80 Aver v FB3027-1 v 1 1 1 1 1 1 1 1 1 1 1 1 1	AXIS	207MW	Fal	0	0	Detai	9
13 Capa All C- Came Name IP Ad Port Port Widec User Passi	IP city – fs era In t kdress cool fl o Charn Name word	Used(#P) Available(#P) <u>154</u> / 31.66 formation 80 80 Aver w Fe2027-1 w	AXIS	207MW	Fal	0	0	Detai	9
13 Capa All C- Came Name IP Ad Port Port Widec User Passi	IP city – fs era In t kdress cool fl o Charn Name word	Used(#P) Available(#P) <u>154</u> / 31.66 formation 80 Aver v FB3027-1 v 1 1 1 1 1 1 1 1 1 1 1 1 1	AXIS	207MW	Fal	0	0	Detail	
- 3. Click Search button to find IP cameras on LAN network.
- In Search list, select the IP camera that user wants to connect. Then, select the IP camera channel that user wants to connect the selected IP camera. Enter the User name and Password of IP camera if the connection authentication is required.
- 5. Click Apply button to make a connection.

	era Lis	1											
	. Туре				IP Address			Protoco				Bitrate	Detail
1	IP	10.100.91.61						Aver		Connected		26269	Detai
2	IP	10.100.91.61						Aver		Connected		26269	Detail
3	lb	10.100.91.85						Aver	FB3027	Connected		33742	Detail
4	IP	10.100.91.88						Aver		Connected		27715	Detail
5	IP	10.100.91.76						A\/er		Connected		27206	Detail
6	IP							AXIS	207MW	Fall	0	0	Detail
7	IP							AXES	207MW	Fail	0	0	Detail
8	IP							AXIS	207MW	Fal	0	0	Detail
9	IP							AXES	207MW	Fal	0	0	Detail
10	IP							AXES	207MW	Fal	0	0	Detail
11	IP							AXIS	207MW	Fal	0	0	Detail
12	IP							AXES	207MW	Fal	0	0	Detail
13	IP							AXIS	207MW	Fal	0	0	Detai
10	С.	1.54 / 31.6	<u> </u>	No			IP Address			ort Pr	otocs	A M	odel
am	iera Ini	formation		1	http://10.100.91.88:2	048/onvif/dev	ce_service		80	ONVE	F	Aver	
Nat	10			2	http://10.100.91.16.8	0/orwif/device	service		80	ONVE	F	Aver	
	ddress			3	http://10.100.91.85:8				80	ONVE		Aver	
18	t	80	2	4	http://10.100.91.33 8				80	001/3		AVer	
	locol	AVer	~	5	http://10.100.91.24:2				80	ONVE		Aver	
Port	ы	FB2027-1		6	http://10.100.91.76:2				80	ONVI		AVer	
Port		i be		Lz	http://10.100.91.41-2	000/ocutides	na servina		80	0664	F.	Halo	100302
Port Prot	o Chara												
Port Tot Mod	o Charre Name												
Port Prot Mod User													
Port Prot Mod Vide Liser	r Name tword	era 01											
Port Prot Mod Vide User Pass	r Name tword												
Port Prot Mod Vide User Pass	r Name tword	era 01	Cancel										

6. After connection is successful, user should see the live video is displayed.

	raList	t										
	Type			IP Address		Protocol		11		Bitrate	Detail	
	P	10.100.91.61				AVer		Connected		26140	Detail	
	P	10.100.91.61				Alver		Connected		26140	Detail	
	P	10,100.91.85				AVer	FB3027	Connected		32990	Detail	
-	P	10.100.91.88			 	Aver		Connected		27705	Detail	
	P	10.100.91.76				Aster		Connected			Detail	
6	P					AX25	207MW	Fal	0	0	Detail	
7	P					AX25	207MW	Fal	0	0	Detail	
8	p					AX2S	207MW	Fal	0	0	Detail	
9	P					AUDS	207MW	Fal	0	0	Detail	
10	p					AX25	207MW	Fal	0	0	Detail	
11	P					AVES	207MW	Fal	0	0	Detail	
12	p					AU2S	207MW	Fal	0	0	Detail	
13	2					AX25	207MW	Fal	0	0	Detal	
	1	Used(MP) Avalable(MP)	Search List Search ActiveP									
4 CH		1.54 / 31.66	Search ActivelP		P Adžess				otocol		todel	
a cH	s ra Inf	1.54 / 31.66	No. *	ALI	IP Address		80	Aver	otocol	17.30	OD-R	
4 CH Same Jame	s ra Inf	1.54 / 31.66	Search ActivelP	91.33	P Adress				otocol	PV30	OD-R	
VE CH Lame Lame P Ad	s ra Inf	1.54 / 31.66 formation camera5 10.100.91.76	Search Actively No. * U 10.100 9 10.100	91.31 91.33 91.24	IP Address		80	Aver	otocol	PV30	00°R 28 29-114	
arne Jame Jame P Ad	ts Tra Ind Stress	1.54 / 31.66 camera5 10.100.91.76 80 \$	Search ActiveP No. * 10:100 9 10:100 10 10:100	91.31 91.33 91.24 91.88	IP Address		80 80	Aver Aver Aver	otocol	PV30 PV30 PV20	00-R 28 29-TM 29-TM	
Al CH Jame Jame P Ad Port Froto	t ra Inf tress col	1.54 / 31.66 formation camera5 30.100.91.76 00 0 Aver w	Search ActiveP No. * 10:100 9 10:100 10 10:100 10 10:100 11 10:100	91.31 91.33 91.24 91.88 91.88	IP Address		80 80 80	Aver Aver Aver Aver	otocol	PV30 PV30 PV20 PD30	00-k 28 28-114 120-M 120	
Al CH Jame Jame Jame P Ad Port Foto Aode	s ra Inf dress col	1.54 / 31.66 formation carer a5 50.100.91.76 00 \$ Aver \$ F8.2027-2 \$	Search ActiveP No. * 0.100 9 10.100 10 10.100 10 10.100 10 10.100 11 10.100 12 10.100	91.31 91.33 91.24 91.88 91.16 91.16 91.05	P Adžess		80 80 80 80 80	Aver Aver Aver Aver	otocol	PV30 PV30 PV20 PD30 FD20	00-k 28 28-114 120-M 120 27	
Al CH Jame Jame Jame P Ad Port Foto Aode	t ra Inf tress col	1.54 / 31.66 formation carer a5 50.100.91.76 00 \$ Aver \$ F8.2027-2 \$	Search Active No. * 0 20.100 9 10.100 10 10.100 11 10.100 12 10.100 13 10.100	91.31 91.33 91.24 91.88 91.16 91.16 91.05	IP Address		60 80 80 80 80	Aver Aver Aver Aver Aver Aver	otocol	F930 PV30 PV20 F030 F030 F030	00-k 28 28-114 120-M 120 27	
41 CH Lame Lame P Ad Nort Nort Noto Adeo	s ra Inf dress col	1.54 / 31.66 formation carer a5 50.100.91.76 00 \$ Aver \$ F8.2027-2 \$	Search Active No. * 0 20.100 9 10.100 10 10.100 11 10.100 12 10.100 13 10.100	91.31 91.33 91.24 91.88 91.16 91.16 91.05			60 80 80 80 80	Aver Aver Aver Aver Aver Aver	otocol	F930 PV30 PV20 F030 F030 F030	00-k 28 28-114 120-M 120 27	
All CH Anne Anne Aort Proto Aodel Adeo	t ind tress col Charm	1.54 / 31.66 formation carer a5 50.100.91.76 00 \$ Aver \$ F8.2027-2 \$	Search Active No. * 0 20.100 9 10.100 10 10.100 11 10.100 12 10.100 13 10.100	91.31 91.33 91.24 91.88 91.16 91.16 91.05			60 80 80 80 80	Aver Aver Aver Aver Aver Aver	otocol	F930 PV30 PV20 F030 F030 F030	00-k 28 28-114 120-M 120 27	
li CH Jame Jame Jame P Ad Port Proto Adde Joer I Jame	t ind tress col Charm	1.54 / 31.66 convertads 10:00.91.76 Aver F8:0027-2 * eff	Search Active No. * 0 20.100 9 10.100 10 10.100 11 10.100 12 10.100 13 10.100	91.31 91.33 91.24 91.88 91.16 91.16 91.05			60 80 80 80 80	Aver Aver Aver Aver Aver Aver	otocol	F930 PV30 PV20 F030 F030 F030	00-k 28 28-114 120-M 120 27	
P Adi Port Proto Aode Adeo Joer I Passe	s ra Inf dress col Chann Vame kord	L54 / 31.66 common common common common common	Search Active No. * 0 20.100 9 10.100 10 10.100 11 10.100 12 10.100 13 10.100	91.31 91.33 91.24 91.88 91.16 91.16 91.05			60 80 80 80 80	Aver Aver Aver Aver Aver Aver	otocol	F930 PV30 PV20 F030 F030 F030	00-k 28 28-114 120-M 120 27	
li CH Jame Jame Jame P Ad Port Proto Adde Joer I Jame	s ra Inf dress col Chann Vame kord	L54 / 31.66 termation Cantrals Cantrals Cantrals Cantrals Cantrals Aver W R2023-2 W I I Image: State Image: State Image: State W Image: State Image: State	Search Active No. * 0 20.100 9 10.100 10 10.100 11 10.100 12 10.100 13 10.100	91.31 91.33 91.24 91.88 91.16 91.16 91.05			60 80 80 80 80	Aver Aver Aver Aver Aver Aver	otocok	F930 PV30 PV20 F030 F030 F030	00-k 28 28-114 120-M 120 27	

7. Also, user can enter the following data in Camera Information section and click **Apply** button to make a connection of the IP camera.

- Name: Give a name for the IP camera.
- IP Address: Enter the IP camera's IP address.
- **Port:** Enter the port of connecting IP camera.
- **Protocol:** Enter the brand name of the IP camera. For example: AVer, AXIS...etc.
- Model: Enter the model type of the IP camera. For example: FD2000
- User Name: The user name of IP camera for authentication when connect to the IP camera.
- Password: The password of IP camera for authentication when connect to the IP camera.
- Add to Camera: The channel that is going to connect the IP camera.
- 8. To configure the IP camera's detail setting, please refer to the chapter of **Configuring the** *IP camera*.
- 9. To connect another IP camera, repeat the above steps.

Configuring the IP camera

User can configure the IP camera's stream settings and related parameters.

In setup mode, select the NVR/DVR server and click \triangleright of **Camera setting** to expand the camera list. Then, select the **camera #** that user wants to configure it.

Some of functions are depended on IP camera has supported. If function tab is gray-out, the function is not supported for the IP camera.



■ Info

Display the name, IP, port, protocol, model, channel, Login ID, password, and resolution of IP camera.

	-	Preference		Stream	ROI	Smart Stream	Privacy	Mask	Motion Detection	Sensor	10
		Information camer				Model		FB3	027		
	ame	Contract				Video Ch	annel	1			-
N	ame Addres	s 10.10	0.91.48			=		_			_
N IF		s 10.10 80	0.91.48			User Nar	ne	adm	in		
N IF P	Addres	the second se	0.91.48			User Nar Passwor		adm			

Basic

Configure the Brightness, Contract, Hue, Saturation, and Sharpness of IP camera.

			13		E					
								100		
				734				100		
			7							
			1	1						
				Carl Bar	5					
	_	-								
Info	Basic	Preference	Exposure	Stream	ROI	Smart Stream	Privacy Mask	Motion Detection	Sensor	4
Vi	deo Ac	ijustment –	Exposure	Stream	ROI		Privacy Mask	Motion Detection	Sensor	
Vi Bi	deo Ad ightnes	ijustment –	Exposure	Stream	ROI	0	Privacy Mask	Motion Detection	Sensor	(1)
Bi	deo Ad ightnes ontrast	ijustment –	Exposure	Stream	ROI	0	Privacy Mask	Motion Detection	Sensor	(•)]
Vi Bi C	deo Ad ightnes ontrast ue	ijustment – s []	Exposure	Stream	ROI	0	Privacy Mask	Motion Detection	Sensor	
Vi Bi C	deo Ad ightnes ontrast	ijustment – s []	Exposure	Stream	ROI	0	Privacy Mask	Motion Detection	Sensor	
VI BI O HI Si	deo Ad ightnes ontrast ue	ijustment – ss D	Exposure	Stream	ROI	0	Privacy Mask	Motion Detection	Sensor	1
VI BI O HI Si	deo Ad rightnes ontrast ue aturatio	ijustment – ss D	Exposure	Stream	ROI	0	Privacy Mask			
VI BI O HI Si	deo Ad rightnes ontrast ue aturatio	ijustment – ss D	Exposure	Stream	ROI	0	Privacy Mask	Motion Detection		ncel

Preference

In Preference page, user can tune the IP camera white balance, select display color or black & white, set the flicker frequency, change the video orientation, and adjust the some advance settings. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



- > Color Setting
 - Color: Select the Color or Black&White mode.
 - B/W Image at Night: Enable/disable to switch to B/W during night mode.
- > White Balance: Adjust white balance in auto or manual mode.
- > Advanced
 - Wide Dynamic Range: WDR effectively balances the video image on the screen in both bright and dark areas to make it possible to see clear details. There are 3 levels for your choice or disable WDR.
 - Night mode priority: Select the one you want to prioritize during night mode image quality or frame rate.

 Denoise: Select Disable/2D/Auto to reduce the excessive noise on the video image. Select Auto and set the Sensitivity level.

Denoise Auto

Sensitivity 0

- AE Profile (Auto Exposure Profile): Select the auto exposure scenes Indoor, Outdoor, or ManualIRIS.
- IR-cut Filter: The IR cut filter is a mechanism that prevents the infrared light from hitting the sensor. During day time the IR light has an interfering effect on the image quality of the camera, which leads to corruption of color and contrast as well as blurring. At night time, the infrared light is used to achieve more detailed images in the dark or with low ambient light.
 - Auto: automatically switch on/off the IR cut filter. It uses the light sensor in front of the camera to determine the level of ambient light.
 - Day Mode: switch on the IR cut filter at all time to prevent the IR light from hitting the sensor so that the color will not be corrupted.
 - Night Mode: switch off the IR cut filter at all time to let the sensor receives the IR light which could help improve low light sensitivity.
 - Schedule: specify the time on when to switch off the IR cut filter to night mode. The time format is hh:mm and in 24-hour clock time.

IR-cut Filter	Schedule	Night from	00:00	(HH:MM) to	00:00	(HH:MM)
are out i neer	benedule	rugine ironn	00.00	(00.00] (

- Flicker: Select the flicker frequency.
- Image Orientation: To Flip or Mirror the video on screen.

Exposure

In Exposure page, user can set the exposure area, exposure mode, and calibrate the DC Iris. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.

						15			1			
							-					
								1		1		
			<u>a</u> 🖻									
						T A		2		2		
				1		X		1				
			1	RT.		1						
Info	Basic	Preference	Exposure	Stream	ROI	Smart St	ream	Privacy Mask	Motio	n Detection	Sensor	Relay 4
Ex	posure	Area	Exposure	Stream	ROI	Smart St	Ехро	osure		n Detection	Sensor	Relay 4
Ex (posure Entire S	Area	Exposure	Stream	ROI	Smart St	Expo	e a Auto a		n Detection	Sensor	Relay 4
● ● ●	posure Entire S Custom	Area Screen nize		Stream	ROI	Smart St	Expe Mode Expe	osure e ⊙ Auto ○ I osure Level		n Detection	Sensor	Relay 4
● ● ●	posure Entire S Custom	Area		Stream	ROI	Smart St	Expo Mode Expo Max.	osure ⊙ Auto ○ I osure Level Shutter		Detection	Sensor	Relay 4
● ● ●	posure Entire S Custom	Area Screen nize		Stream	ROI	Smart St	Expo Mode Expo Max.	osure e ⊙ Auto ○ I osure Level		Detection		Relay 4
● ● ●	posure Entire S Custom	Area Screen nize		Stream	ROI	Smart St	Expo Mode Expo Max.	osure ⊙ Auto ○ I osure Level Shutter		Detection		Relay 4
● ● ●	posure Entire S Custom	Area Screen nize		Stream	ROI	Smart St	Expo Mode Expo Max.	osure ⊙ Auto ○ I osure Level Shutter		Detection		Relay 4
● ● ●	posure Entire S Custom	Area Screen nize		Stream	ROI	Smart St	Expo Mode Expo Max.	osure ⊙ Auto ○ I osure Level Shutter		Detection		Relay 4
● ● ●	posure Entire S Custom	Area Screen nize		Stream	ROI	Smart St	Expo Mode Expo Max.	osure ⊙ Auto ○ I osure Level Shutter				

- Exposure Area: Select the exposure area to define the light distribution and bring out more details.
 - **Entire screen:** measure the entire screen to adjust the exposure.
 - Customize: measure the exposure to where the adjustable and movable frame on the screen is located. Move the spot to dark zone to adjust the light condition.
 - **Backlight compensation:** measure the exposure at the center of the screen.
- > Exposure List: Select to Auto or Manual adjust the exposure.
 - Auto: adjust exposure level from -2.0 to +2.0.
 - Manual: adjust max shutter and gain control.

Stream

User can setup **Codec**, **Resolution**, **FPS**, **Bitrate Mode**, and **Quality** of **Stream 1**, **and Stream 2** on the IP camera channel. The Stream 1 is enabled in default. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



The stream settings are depended on the IP camera has supported.

Info Basic Prefe	erence Exposure	Stream ROI Smart Resolution	Stream Pr FPS	ivacy Mask Motion Detect	ion Sensor Relay 4 Quality Bitrate
Stream 1	H264	 1920X1080 			Good
Stream 2	H264	* 640X480(TV) *			* Good *

ROI

ROI stands for Region on Interest. It helps users to optimize bandwidth and storage. Users can select 1 or 2 key area(s) to transmit as separate streams for targeted preview and recording.

- 1. Select the Sensor Mode and Stream.
- 2. Then, select the **Region of Interest** from drop-down list and a gray frame will show up. The gray frame size is depended on the **Region of Interest** that user has selected. Click on the frame and move it to the region that user wants to select.
- 3. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.

		I				
Info Basic	Preference	Exposure	Stream RO	Smart Stream	n Privacy Mask	Motion Detecti
Region Sensor M		N	ormal 🔹	2		
Stream		1	•			
Region o	Interest		•			
						Apply Cance

Smart Stream

Smart Stream optimizes bandwidth and storage space by increasing or decreasing quality for selected areas based upon criticality. Users can define up to 5 areas per stream to ensure sharp images for crucial areas, while saving bandwidth on non-essential areas. Typical applications include entrances, access gates, production lines, art galleries and museums.

After completing the setting, click Apply to save the setting and Cancel to keep the old setting.



- > Stream: Select the streaming source. This option is only applied to H.264.
- Quality: Select the Region 1/2/3/4/5 and set the high/low. Each region frame is corresponded to the color of text, ex: Region 1 is red frame. Drag the frame to select the area on screen.
 - High: video quality of selected area is better than that of un-selected area.
 - Low: video quality of selected area is worse than that of un-selected area

					a Ta			-					
							-			123 1			
						P							
					2 2		1						
					-			\mathbf{N}					
						E							
					1	1	In.		2				
		_			Stream	POT	Count 1	Classes			Empor	Balan	Recording Schedi 4
Info	Basic	Prefer	ence	Exposure					Privacy Mask	Ploton Detection	Sensor		Recording Schedi *
	1000		ence	Exposure	Jana	NO1	ovinan C 1	stream	Рпиасу Мазк	Motion Detection	Sensor	Reary	Recording Schedi 4
Re	egion S tream	ietting	Qual		1.000000			stream	Privacy Plask	Hoton Detection	sensor	reary	Recording Schedi 4
Res	egion S tream		Qual	ty	High •					Motion Detection	Sensor	Reary	Recording Schedi 4
Res	egion S tream	ietting	Quali	ty Igion 1			ion 4	High •	1	Protion Detection	Sensor	Reary	Recording schedi 4
Res	egion S tream	ietting	Quali	ty Igion 1 Igion 2	High •		ion 4	High •	1	Protion Detection	Sensor	Reary	Recording schedi 4
Res	egion S tream	ietting	Quali	ty Igion 1 Igion 2	High •		ion 4	High •	1	Plotion betection	Sensor	reary	Recording Scheol 4
Res	egion S tream	ietting	Quali	ty Igion 1 Igion 2	High •		ion 4	High •	1		Sensor	reary	Recording Scheol 4
Res	egion S tream	ietting	Quali	ty Igion 1 Igion 2	High •		ion 4	High •	1	Protion betection	sensor	reary	Recording Scheol 4

Privacy Mask

In Privacy Mask page, user can enable 3 privacy masks. Simply adjust the size and position the mask on the area user wants to conceal. The viewer will not be able to see the masked area. It will cover the video screen with black frame. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



Motion Detection

In the motion detection page, the frame will blink when the motion detected has reached the percentage threshold setting. This feature can be utilized to trigger a response in Event setting.

or Relay Recording Schedule MFZ PTZ 4
or Relay Recording Schedule MFZ PTZ 4
or Relay Recording Schedule MFZ PTZ (
or Relay Recording Schedule MFZ PTZ
or Relay Recording Schedule MFZ PTZ
ntage Monitor
50 0%
50 0%
50 0%

- 1. Enable the region check box (Region 1, Region 2, Region 3) to create a motion detection frame.
- 2. Move and adjust the frame to the area you want to detect the motion.
- Adjust the sensitivity and percentage. Sensitivity detects the motion on the screen and assesses the changes in pixel thru percentage. The motion detection will activate when the Monitor level reaches the defined percentage.
- 4. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.

Sensor

Setup the sensor of IP camera.

- 1. In Camera Management dialog box, click **Sensor** tab.
- 2. Click the drop-down list and select the sensor ID number.
- 3. Enter sensor name in Name column
- 4. In the Content section, display the NVR system automatically detects the camera and input relates information. Enter a short comment for this sensor in **Description** column.
- 5. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
- 6. Click Apply to exit and accept the setting and Cancel to exit without saving the setting.

smart Stream	_	Motion Detection	Sensor Relay	Recording Schedu	ile MFZ PTZ 4
JCHSOI OI					
Content					
Content Camera	camera2				
	camera2 AVer				
Camera Protocol Model					
Camera Protocol	AVer				Test

Relay

Setup the relay of IP camera.

- a. In Camera Management dialog box, click Relay tab.
- b. Click the drop-down list and select the relay ID number.
- c. Enter relay name in Name column
- d. In the Content section, display the system automatically detects the camera and input relates information. Enter a short comment for this relay in **Description** column.
- e. Click OK to exit and accept the setting and Cancel to exit without saving the setting.

mart Stream	Privacy Mask	Motion Detection	Sensor Rela	ay Recording	Schedule	MFZ PTZ	4
Relay 01 -	Name						_
Relay 01 •	Name						
Relay 01 • Content Camera	Name						
Content							
Content Camera	camera2						
Content — Camera Protocol	camera2 AVer FB3027						

■ MFZ



The IP camera has motorized lens can perform MFZ function(motorized focus and zoom).

To adjust the focus or zoom in/out the view of IP camera.



Name	Function
Auto focus	Automatically focus on where focus cursor ([+) has
	pointed.
[+] Focus near	To adjust the near side of focus.
E-3 Focus far	To adjust the far side of focus.
Step zoom in	To zoom in one step by step for fine focus adjusting.
Step zoom out	To zoom out one step by step for fine focus adjusting.
Continuous zoom in	Press to zoom in continuous.
Continuous zoom out	Press to zoom out continuous.
Reset	To reset the zoom back to the center of screen view in default value (1x).

Setup Camera PTZ function

Setup IP PTZ

User can enable PTZ function if the IP camera has supported.

- 1. In setup mode, select the NVR/DVR server. Then, click ▷ of **Camera setting** to expand the camera list.
- 2. Then, select Camera # > PTZ tab. In PTZ page, click Use PTZ to enable PTZ function.



- 3. Mark **User PTZ** check box to enable PTZ function.
- Preset Setting: use the control panel to adjust the position of the camera and select the Preset Number to assign a number for the camera current position. After is done, click Save to keep the settings.



- 5. **DwellTime:** for how long the camera stays in that position before it moves to the next one (the setup time period is 1~60 seconds). After is done, click **Save** to keep the settings.
- 6. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved. Mark the check box and set the time period in second.
- 7. Click Apply to save the settings.
- 8. After completing the PTZ setting, user can operate the PTZ function through PTZ control panel in preview mode (see also <u>Chapter 4.1.2</u>).

Setup Analog PTZ

User can enable PTZ function if the analog camera has supported.

- 1. In setup mode, select the NVR/DVR server. Then, click ▷ of **Camera setting** to expand the camera list.
- 2. Then, select Camera # > PTZ tab. In PTZ setup page, click Use PTZ to enable PTZ
- 3. In PTZ page, mark **Use PTZ** to enable PTZ function.



- 4. Connection Settings: select the following selections and click Save to apply the settings.
 - COMPort: The connecting port is fixed and can't be changed. The default is RS485 port.
 - ✓ **ID:** Assign an ID number for the PTZ camera.
 - Baud Rate: Please refer to the user's manual of the PTZ camera to make sure the baud rate.
 - ✓ Protocol: Please refer to the user's manual of the PTZ camera to make sure what protocol is using.
- Preset Setting: use the control panel to adjust the position of the camera and select the Preset Number to assign a number for the camera preset position. After is done, click Save to keep the settings.



6. **DwellTime:** For how long the camera stays in that position before it moves to the next one (the setup time period is 1~60 seconds). After is done, click **Save** to keep the settings.

5	-	Sec.					
	5	5 -	5 • Sec.	5 • Sec.	5 • Sec.	5 • Sec.	5 • Sec.

- 7. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved. Mark the check box and set the time period in second.
- 8. Click **Apply** to save the settings.
- 9. After completing the PTZ setting, user can operate the PTZ function through PTZ control panel in preview mode (see also <u>Chapter 4.1.2</u>).

6.2.5 Schedule Setting

In this chapter, it describes how to setup the recording and alarm schedule.

Setup Recording Schedule



The recording schedule default is "always record".

If the storage path is not set, the NVR system couldn't record.

- 1. In setup mode, select the NVR/DVR server. Then, click ▷ of **Camera setting** to expand the camera list.
- 2. Then, select Camera # > Record Schedule tab in Camera Setting.



 User also can select Schedule Setting; click ▷ to expand list of Schedule Setting and select Recording. Then, select the Camera and click Schedule Setting button to enter Record Schedule page.



4. Next, select the Recording Mode first. The recording modes are listed in following:

- Always Recording

Record the video from the selected camera and save it to the designated storage path.

- Event Recording

Start recording the video from the selected camera only when the system detects movement. Click **Detail** button to view event recording items. Now, only support motion recording on Event recording mode.



- Smart Recording

Automatically switch to recorded once a motion is detected and if there is no motion, it records at key frame only.

- No Recording

The system won't do any recording.

Camera 2	
To select or up-sele	Hask Motion Detection Sensor Relay Recording Schedule MFZ PTZ
	ct all 2 Apply to Camera 02
To select or un-sele blocks, click the are	ct all 2 Apply to Camera 02
blocks, click the are	ct all 2 Apply to Camera 02
blocks, click the are upper-left corner.	ct all 2 Apply to Camera 02 a in cording Event Recording Detail ng No Recording 3 Sec.
blocks, click the are upper-left corner.	ct all 2 Apply to Camera 02 a in ecording Ing No Recording No Recording
blocks, click the are upper-left corner.	ct all 2 Apply to Camera 02 a in cording Event Recording Detail ng No Recording 3 Sec.
blocks, click the are upper-left corner.	ct all 2 Apply to Camera 02 a in ecording Ing No Recording 3 Sec.
blocks, click the are upper-left corner.	ct all 2 Apply to Camera 02 a in ecording Ing No Recording 3 Sec.

5. After selecting the recording mode, select date and time on date time table.

6. If user wants to apply this record schedule to other or all camera channels, uses **Copy from** and **Apply to** function to apply to other camera channel.

				1				1		ł		1					
											10						
					2		E		2		ME.						
						1		-	-		17						
					-		/			10	-						
	1		14	1	1				1							[
mart Strea			-	_			-		Rel	ay R	ecord	ling Si	chedu	le M	1FZ	PTZ	1
mart Strea Copy from	Cam	era 02	-	_			-		Rel	ay R	ecord	ling Si	chedu	le M	1FZ	PTZ [•
Copy from	n Cam ng Mo	era 02 de us Reco	• A	Apply			-		Rel	ay R	ecord	E	vent F	Recor	ding	PTZ	
Copy from	n Cam ng Mo ontinuo mart Re	era 02 de us Reco	▼ ¢ ordin	Apply ng	to C		-		Rel	ay R	ecord	E		Recor	ding		•
Copy from Recordin Co Start Rec	n Cam ng Mo ontinuo mart Re cord Pr	era 02 de us Reco cording ior	▼ ≠ ordin g 3	Apply ng Sec.	to C		-		Rel	ay R	ecord O	E	vent F	Recor	ding		
Copy from	n Cam ng Mo ontinuo mart Re cord Pr	era 02 de us Reco cording ior	▼ ≠ ordin g 3	Apply ng	to C		-		Rel	ay R	ecord O	E	vent F	Recor	ding		
Copy from Recordin Co Start Rec	n Cam ng Mo ontinuo mart Re cord Pr cording	era 02 de us Reco cording ior	• A ordin 3 3	Apply ng Sec. Sec.	to C		-				0 0	E E	vent F o Rec	Recor	ding	Deta	
Copy from Recordin Construction Start Res Stop Rec	n Cam ng Mo ontinuo mart Re cord Pr cording	era 02 de us Reco cording ior	• A ordin 3 3	Apply ng Sec. Sec.	to C	amera	102				0	E E	vent F o Rec	Recor	ding g	Deta	
Copy from Recordin C C C C Sr Start Red Stop Red	n Cam ng Mo ontinuo mart Re cord Pr cording	era 02 de us Reco cording ior	• A ordin 3 3	Apply ng Sec. Sec.	to C	amera	102				0	E E	vent F o Rec	Recor	ding g	Deta	

- 7. Click **Apply** to save the recording schedule.
- 8. To stop recording, selecting "**No Recording**" and click on the date and week to disable the recording; then, click **Apply** to save the changes.

Setting up the Alarm Schedule

Setting up the schedule for alarm action that user has setup in Alarm setting (see also <u>Chapter</u> <u>5.2.6</u>). According to the alarm schedule, the alarm actions will be active and alarm will be issued when action has matched the conditions.

1. In setup mode, select the NVR/DVR server. Then, double-click the **Schedule setting** and select **Alarm Setting**.





- 2. Also, user can click **Alarm Setting > Alarm Schedule** tab to enter Alarm schedule page.
- 3. Select the **Enable** and click on the date and time to setup the schedule.



- 4. Next, click **Apply** to save the setting.
- 5. To disable the alarm schedule, select "**Disable**" and click on the date and time table and click **Apply** to save the changes.

6.2.6 Alarm Setting

To setup an alarm setting, user needs to complete following steps:

- 1. Setting up the alarm conditions
- 2. Setting up the alarm actions
- 3. Setting up the alarm schedule(see also Chapter 5.2.5)

In the following chapter, it describes how to setup the alarm condition and action.

Setup the Alarm Condition

- 1. In setup mode, select the NVR/DVR server. Then, select Alarm Setting.
- 2. User should see the Alarm Setting dialog box is displayed.

CM5000	
Back	
Advanced DVR Setting	
Setting	
 P2SA System Setting 	
Bystem Setting	
Aarm Setting	
Image: Auron Setting Image: Setting Image: Schedule Setting Image: Schedule Setting	
 wig schedue setting 	
	Alarm Setting
	Alarm Status Alarm Schedule Sensor Relay
	Select No. Name Description Camera Setting
	a Add Deete

3. Next, click Add to create a new alarm condition setting.

- In No. column displays the alarm setting number. The number of alarm is assigned by NVR system in default.
- 5. Enter alarm name and description for this alarm setting in Name and Description column.

)	ala	rm 1			ecript	'n							1			
iaaa			800	if Am	_	2000							L			
-999-	type		rgge	- # Am,	- 0	Trigge	r + A1									
Cam																
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
																Setting
16de	o Loss															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
V1	02	0.5	01	0.5	00	07	00	0.5	10		12	15	14	15	10	[a .w
																Setting
Sens	or-															System
High																Reboot
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Abnormal Reboo
Low																Hard Disk Failed
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
IP C	amera	a Sens	or													
Cont	tinuou	s Trigg	er Du	ration	0	Sec	5.									

6. Next, select "**Trigger if any**" to activate alarm if system falls to one of the conditions or "**Trigger if all**" to activate alarm if system falls to all conditions.

igger		rm 1	frigger	if Any	0	Trigge	r if Al	٦								
Cam Motio								-								
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
_	b Loss			-		l.					1					
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
																Setting
Sens	or –															System
High																Reboot
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Abnormal Reboot
Low																Hard Disk Failed
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
IP C	amera	a Sens	or													
Cont	inuou	s Trigg	ler Du	ration	0	Sec	5.									

 In Camera section, select and click on the camera number in Motion and Video Loss to set the condition for the system to alarm.

onditi	on	Action														
NO.	Na	me		De	escript	ion										
0	ala	rm 1														
higger	Туре	• • T	rigger	if Any	0	Trigge	r if Al									
Came							2						,			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
Video	Loc	_														Setting
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
Sens High	or—															System Reboot
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Abnormal Reboot
Low																Hard Disk Failed
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
		a Sensi Is Trigg	_	ration	0	Ser	2.									

 Motion: select and click on the camera number (01 to 16) to set the condition for the system to alarm. Click the Setting button to setup the system to send out the alarm when motion is detected and last the time that user has entered in Continuous trigger duration. The time range is 0~ 300 seconds.



Video Loss: click the camera number (01 to 16) to set the alarm condition when video is lost. Click the Setting button to setup the system to send out the alarm when video is lost and status last the time that user has entered in Continuous trigger duration. The time range is 0~ 300 seconds.

deo Loss Setting		
Continuous Trigger D	uration C) Sec.
	<u>j</u>	K) Cance

8. In **Sensor** section, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.

D.	Nar	me rm 1		De	escript	ion						_				
gger Came	era-	01	Trigger	if Any	0	Trigge	r <mark>if Al</mark>									
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
	o Loss															Setting
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
																Setting
Sens High	or —															System
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Abnormal Reboot
Low																Hard Disk Failed
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
		a Sens	_													
Cont	inuou	s Trigg	jer Du	ration	0	Sec										
		201 22 10 28	_	ration	0	Sec	2									

- IP Camera Sensor: To adjust sensor high/low that is connected on the IP camera.

Camera List	Conditions	
Camera: 1 (AVer - SF2121H-R IP: 10.100	No. Name H	High Low
Camera: 5 (AVer - FX3000-R IP: 10.100.	1 0	

- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.

9. In System section, mark the check box to set the conditions that are caused by system.

		rm 1														
igger C am Motic	era-	© 1	frigger	if Any	0	Trigge	er if All									
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
Video	o Loss															Setting
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
																Setting
Sens High																System Reboot
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Abnormal Reboot
Low																Hard Disk Failed
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
IP C	amera	a Sens	or													
Cont	inuou	s Trigg	er Du	ration	0	Sec	c.									

- **Reboot:** when the NVR system reboot without abnormal condition, the system will send out the alarm message.
- Abnormal Reboot: when the NVR system reboot in irregular condition, the system will send out the alarm message.
- Hard Disk failed: when the hard disk doesn't work normally, the system will send out the alarm message.
- 10. After setting all alarm conditions, click Apply to save the settings.
- 11. Next, user needs to set the alarm action when alarm has triggered. Please refer to chapter of *Setup the Alarm Action*.
- To modify the alarm condition setting, click Setting button of Alarm # that user has created. Remember to click Apply to save the changes after modification.

alarm St	atus	Alarm Schedule	Sensor	Relay		
Select	No	Name		Description	Camera	Setting
	1	alarm 1			01, 02, 03, 04	Setting

13. To delete the alarm #, select the alarm # that user wants to delete and click Delete button.

Alarm St	atus	Alarm Schedule	Sensor	Relay		
Select	No	Name		Description	Camera	Setting
	1	alarm 1			01, 02, 03, 04	Setting
			10		L	

Setup the Alarm Action

Setup the alarm action for system to perform when the alarm condition has been triggered.

- 1. In setup mode, select the NVR/DVR server. Then, select Alarm Setting.
- 2. Then, click **Setting** button of Alarm # that user has created in Alarm Information dialog box. Also, user can select the **Alarm#** from the list under Alarm Setting.



3. In Alarm Setting page, select the Action tab to switch to alarm action page.

14 1	5 16	Action	Detai
14 1	5 16	Launch E-Map	Detai
14 1	5 16	Launch E-Map	Detai
14 1	5 16	Launch E-Map	Detail
14 1	5 16	Spot Monitor	Detail
14 1	5 16		LOCUM
		Enlarge Camera View	Detai
14 1	5 16	Relay Output	Detai
	5 10	IP Camera Relay	Detai
		Play Warning Sound	
		Send E-Mai	Detai
		Gen Transmission via ETP	Detai
		PTZ Preset Point	Detail

 The No., Name, Description, and Priority column display the current alarm's information. The Trigger Type displays the current alarm's trigger condition. 5. In **Alarm Reset** section, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.

tigger Typ	karm 1 pe ⊙ 1	ngger if		criptio		r AL										
Alarm Re Sensor High															Action C Launch E-Map Spot Monitor Det	
01 0	02 03	04	05	06	07	08	09	10	11	12	13	14	15	16	Enlarge Camera View	
LOW 01 0	02 03	04	05	06	07	08	09	10	11	12	13	14	15	16	Relay Output De	tal
IP Ca	amera S	ensor													IP Camera Relay Del Play Warning Sound	ai
Alarm I	Reset Ti	me O	Se	ec.											Send E-Mai De File Transmission via FTP De TZ Preset Point De	tai

- IP Camera Sensor: To adjust sensor high/low that is connected on the IP camera.

amera List	Alarm Relay	
Camera: 1 (AVer - SF2121H-R IP: 10.100	No. Name	Status
Camera: 5 (AVer - FX3000-R IP: 10.100.	1	Off

- Alarm Reset Time: Set a time for the alarm auto reset. When an alarm happen such as motion detected and video loss, the alarm will reset at the alarm reset time.
- 6. In **Action** section, user may now set the alarm action for the system to perform when the alarm condition is activated.
 - Launch E-Map: Display mini E-map on the screen.

- Enlarge Camera View

Switch to only display video in Preview mode from where the alarm is activated.

- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
- b. Retrieve time: set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-set, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 0~ 300 seconds.

Camera O	1 💙		
Retrieve T	ime	0	Sec

Relay Output

Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

- a. Beside the Relay Output check box, click Detail.
- b. In the Relay Output dialog, select from the available relay list and in the **Status** column, set to **on/off** the relay operation when the alarm is activated.
- In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second (0 ~ 300 seconds).
- Click OK to exit and accept the setting and Cancel to exit without saving the setting.

No.	Name	Status
1		On
2		On
3		Off
4		Off
	etrieve T	Time 0 Sec.

- IP Camera Relay

Set to enable/disable the relay operation when the alarm is activated.

Camera List	Alarm Rela	ay	
Camera: 1 (AVer - SF2121H-R IP: 10.100	No.	Name	Status
Camera: 5 (AVer - FX3000-R IP: 10.100.	1	6	off

- Play Warning Sound: Play alarm sound.

- Send E-mail

Send an electronic text message. Beside the Send Email check box, click **Detail**. In the E-mail Setting dialog box, click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

Mail Server SMTP Server		
SMIP Server		: 25
Authentication		
User Name	Password	
Mail		
From		
То		
CC		
Subject		
Message		
Notice Interval 1 Minute		Test Account
Snapshot		
Enable		
Select Camera O1 🗸		
Video Size 352X240		

Mail Server

Enter the **SMTP Server** and **port**. If your e-mail system requires user identification, enable **Authentication** check box and enter **ID** and **Password**.

Mail

Fill the mailing information. Click **Test Account** button can exam the mail is workable or not.

- ✓ From: Enter the sender e-mail address.
- ✓ To and CC: Enter the recipient email address and separate it with comma or a semicolon (;).
- ✓ **Subject:** Enter the message title.
- ✓ Message: Type the message.
- ✓ Notice Interval: Set a time gap for mail re-sending when mail has failed to send.

Snapshot

When send out the email, the NVR system will snapshot image of the selected camera channel.

- Select Camera: Select the channel that will be snapshot when alarm email is sending out.
- ✓ Video Size: Select the size of vide that will be taken when snapshot. Auto means default size that chosen by NVR system.

- File Transmission via FTP

Upload file to remote computer thru FTP (File Transfer Protocol).

- ✓ FTP Setting
 - > IP: Enter FTP server's IP address
 - Port: Enter the port number of FTP connection.
 - ID& Password: Enter the ID and Password that use to login FTP server.

✓ Upload Video Clip

- Select Camera: Select the camera that the images will be captured and send when the any alarm is triggered.
- Before alarm (sec.)/After Alarm: To send the recorded image before and after alarm occurs, enter the

TP Setting-	
IP	
Port 2	21
Jser Name	
Password	
Jpload Video Select Camera	Camera 01
Before Alarm	1 🔽 Sec.
	1 🗸 Sec.

time that before alarm occurs in **Before alarm(sec.)** and **After alarm**.

- PTZ preset point

Position the PTZ camera based on the preset point setting. Beside the PTZ preset point check box, click **Detail**. In the Trigger PTZ Preset Setting dialog box, select the PTZ camera number then select the **Enable** check box. Select the position of the PTZ camera when the alarm is activated and ended. For the PTZ camera end point, user can also select on preset position or **Auto Pan** between preset position groups.

Select Camera	Camera 01	~
Preset Nur	nber	
Alarm Trigger	01	~
⊂Alarm Close		
💿 Alarm Clos	se 01	~
O AutoPan	1-4 9	- 12
	5-8 🗆 13	8 - 16

- 7. After setup all alarm actions, click **Apply** to save the settings.
- To modify the alarm condition setting, click Setting button of Alarm # that user has created. Remember to click Apply to save the changes after modification.

Alarm St	atus	Alarm Schedule	Sensor	Relay		
Select	No.	. Name	1	Description	Camera	Setting
	1	alarm 1			01, 02, 03, 04	Setting

6.2.7 User Account Setting

Only administrator level authority can access User Setting. The maximum user accounts are 32.

Create an User Account

 In setup mode, select the NVR/DVR server. Then, select User setting and the User Information dialog box is displayed.

The Admin is default user and cannot be deleted.
Any modification of account will be applied in next time login.

Back	
anced DVR Setting	
g 1725A	
F25A	
System Setting	
Kamera Management	
Aarm Setting	
Die User Setting	
admin	
R Schedule Setting	
	User Setting
	Sort by No*
	Select No. Name Level Description Setting
	🗆 1 admin Administrator. Setting
	E a autor exception activity
	Add Deite
	Add Utering

2. In User Information dialog, click Add to add a new user account.

3. In User Setting dialog, Select and fill in the following information.

Name								Remo	te Access Time nite
Description								30	Minute
Password									
Confirm Pas	ssword							Contr	ol Right ——
Authoriza	ation I	aval						⊡ ca	
 User 			or					Ala	
Visible Ca	mera							Pla	yback
								🗹 E-N	Лар
☑ 1	✓ 2	⊻ 3	☑ 4	⊻ 5	6	7	8	Por	wer OFF
9	✓ 10	✓ 11	1 2	1 3	14	1 5	☑ 16		
Time Spa									
Activation	Date	2014/2	2/7 -	Exp	oiry Date	2014/2	2/7 -		

- Name: Enter the user name.
- Description: Enter the user description.
- Password: Enter the user password.
- Confirm Password: Enter the same user password for confirmation.
- Authorization level: Select the status of the user. Administrator has full authority of control rights.
- Visible Camera: Select the camera number that would allow the user to access or view. To select all the cameras, enable the ALL check box.
- Remote Access Time: Enable Infinite check box to access DVR without time limit. If you want to set time limit, un-mark and enter the number of minutes in Minute text box.
- Control Right: Enable the items that would allow the user to access.
- Time Span: Set the user account a specific time period that user only can use given account to login DVR program in that specific period. Mark Enable check box and select the Activation Date and Expiry Date.

4. Click Apply to save the account setting. The user account is list in User Setting list.

() Setup CM5000	
Back	
Advanced DVR Setting	
	ImplifyIth

- 5. Adding another user account, repeat above steps.
- 6. Modifying the user account; click **Setting** of user account in User Information dialog.

Delete an User Account

User can remove un-wanted or expired user account.

- 1. Click **Setup** tab in Preview mode.
- 2. Then, click **User Setting** in Advanced NVR Setting section and the User Information dialog is displayed.
- 3. Mark the user account in User Information dialog; then, click **Delete** button.

iort by	No.	~				Sort b	/ No.	~			
Select	No.	Name	Level	Description	Setting	Select	No.	Name	Level	Description	Setting
	1	admin	Administrator	default	Setting		1	admin	Administrator		Setting
	2	TPEuser	User	user level	Setting						
					•						

6.2.8 I/O Setting

Setup I/O device status.

Sensor Setting

1. Click Setup tab > Alarm Setting > Sensor tab.

() Setter) CM5000	
Back	
Advanced DVR Setting	
Setting	
• 🛃 F2SA	
System Setting	
Camera Management	
Aarm Setting	
 Se user Setting 	
Schedule Setting	
	Alarm Setting
	Alarm Status Alarm Schudule Sensor Rekry
	Sensor 01 * Name
	Content
	Card No. 1
	Input No. 01
	Description
	Test
	Test
	Apply Conce
	(a) Mary Land

2. Click the drop-down list and select the Sensor #.

Alarm Status	Alarm Schedule Sensor Relay
Sensor 01 🔽	Name
Content -	
Card No.	1
Input No.	01
Description	
	1
Test	
	Test
	Apply Cance

- 3. Enter sensor name in Name column.
- 4. The system automatically detects the card and input number. In the **Content** section, user can enter a short description of sensor in **Description** column.
- 5. In the test section, click Test to check the sensor status. Red is high and Green is low.

6. Click Apply to save the setting. To exit without saving the setting, click Cancel button.

Relay Setting

1. Click Setup tab > Alarm Setting > Relay tab.

	CM5000	
strange of a constant of a con	General Back	
strange of a constant of a con	Advanced DVR Setting	
Aim Setting By System Strangpoint Image States Image States<	Setting	
Alem Stocks serve Mark		
Alem Stafes Alem Stafes Integration Integration Card too Integration Deceptors Integration Test Integration		Airm Setting
Rate (b) None Context Image: Context (b)		
Content General III Yeart No. 09 December 11 Text Text		
Tes		Content Card No. 11 Popt No. 01

- 2. Click the drop-down list and select the Relay #.
- 3. Enter relay name in Name column.
- The system automatically detects the card and input number. In the Content section, user can enter a short description of relay in Description column.
- 5. In the test section, click **Test** to trigger relay. **Red** is high and **Green** is low.
- 6. Click Apply to save the setting. To exit without saving the setting, click Cancel button.

rm Setting	
Alarm Status	Alarm Schedule Sensor Relay
Relay 01 💌	Name
Content -	
Card No.	1
Input No.	01
Description	
Test	
- Test	Test
	Apply Cancel
	(mail Apply) Cancer

6.2.9 Setup the iPOS

Set from which camera screen to display the data from the POS equipment. Click **Setting**, to set the POS Console Setting.

- 1. Click Setup tab. Click + to expand the System Setting list and select Hardware Device.
- 2. User should see the Hardware Device Setting dialog box is displayed.



3. In the Hardware Device Setting dialog box, click Add to set a new POS setting.

4. In the POS Mapping dialog box, fill and select the following settings. Click **OK** to save the settings and **Cancel** to exit without saving the new setting.

- Name: Enter a name to identify the POS.
- **Protocol:** Select the protocol.
- **Skip First:** Set the number of lines you want to be removed.
- Font Color: Select the text color of the POS data.
- Port Setting: Select the Local(Com port) where it is connected and Baud Rate.
- Map to Channel: Select to which camera number to display the transaction text.
- Text Filter: Enter the word you want to be removed.

POS	-					2
Name	POS1					
Protocol	General		~			
Skip First	0		\$	Line(s)		
Font Color						
Port Settin	ıg					
Local	COM1	~				
Baud Rate	9600	🗸 bps	1			
an as and	8					
Map to Ch						
Max 4 Char	nnels					
	2 🗆 3	4	5	6	7	8 🗌
□1 □: □9 □:		□ 4 □ 12	□ 5 □ 13	□6 □14	□ 7 □ 15	□8 □16
		1999	10.00	1000		
 9:		1999	10.00	1000		
9		1999	10.00	1000		
Text Filter		1999	13	1000		
9 Text Filter		1000	5.	1000		
9		1000	5. [6. [1000		

- 5. To setup another iPOS setting, repeat the above steps.
- 6. To modify the iPOS setting, click the Setting button of iPOS.

