

User's Manual

Version 1.0.5.9

Digimerge Technologies Inc.

Copyrighto2008 Digimerge Technologies Inc.

All rights reserved. This material, information and instructions for use contained herein are the property of Digimerge Technologies Inc. No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any languages in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of Digimerge Technologies Inc.

Liability. Digimerge Technologies Inc. provides this manual "as is" without warranty of any kind, either express or implied, including but not limited to the implied warranties or conditions of merchantability or fitness for a particular purpose. In no event shall Digimerge Technologies Inc. its directors, officers, employees or agents be liable for any indirect, special, incidental, or consequential damages (including damages for loss of profits, loss of business, loss of use or data, interruption of business and the like), even if Digimerge Technologies Inc. has been advised of the possibility of such damages arising from any defect or error in this manual or product.

Specifications or information contained in this manual are furnished for informational use only, and are subject to change at any time without notice, and should not be constructed as a commitment by Digimerge Technologies Inc. Digimerge Technologies Inc. assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual, including the products and software described in it.

Trademarks. Product and cooperate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

Translated material. Any discrepancies, errors or omissions in non-English versions of this manual should be referenced to the English version for clarification.

Digimerge Technologies Inc.

TABLE OF CONTENTS

1. INTR	ODUCTION	7
2. SYST	EM REQUIREMENTS	8
3. INSTA	ALLATION	8
4. STAF	RTING CMS SOFTWARE	11
4.1 Cre	eating administrator's password	11
4.2 Cre	eating a new user's password	12
4.3 Log	gin	12
5. CMS	main window-Layout	13
5.1. File	э	14
5.1.1. L	_og Off	14
5.1.2. E	Exit	14
5.2. Vie	?W	15
5.2.1.	Device Manager	15
5.2.1.1	Add Item	15
5.2.1.1.1	Model	16
5.2.1.1.2	Name	16
5.2.1.1.3	IP address	16
5.2.1.1.4	Port number	16
5.2.1.1.5	Connect through IP Server and MAC Address	16
5.2.1.1.6	User ID and Password	16
5.2.1.1.7	Apply or Cancel	16
5.2.1.2	Edit Item	17
5.2.1.3	Delete Item	17
5.2.1.4	Connect DVR	18
5.2.1.5	Disconnect DVR	18
5.2.1.6	Search DVR	18
5.2.1.7	Preview window display per channel	19
5.2.2. L	ive Screen and Live Monitor	19
5.2.2.1	Split screen display	20
5.2.2.2	Full screen display	21
5.2.2.3	Disconnect one channel	21
5.2.2.4	Disconnect all channels	22
5.2.2.5	Audio On	22
5.2.2.6	Snapshot	23

5.2.2.6.1	Print a captured image	23
5.2.2.6.2	Save a captured image	24
5.2.2.6.3	Cancel a captured image	25
5.2.2.7	PTZ Control	25
5.2.3. E	-Map Monitor	26
5.2.3.1	Add New Map	27
5.2.3.2	Add Sub Map Link	28
5.2.3.3	Edit Map	28
5.2.3.3.1	Map link icon	29
5.2.3.3.2	Name and File name	29
5.2.3.3.3	Camera icon	29
5.2.3.3.4	Display a camera direction	30
5.2.3.3.5	Remove a camera	30
5.2.3.4	Remove Map Tree	30
5.2.3.5	Dock the CMS E-Map Monitor	31
5.2.4. 8	Status Monitor	31
5.2.4.1	DVR status indication	31
5.2.4.2	No	31
5.2.4.3	Name	32
5.2.4.4	IP address	32
5.2.4.5	MAC address	32
5.2.4.6	Channel number	32
5.2.4.7	DVR Type	32
5.2.4.8	Record Status	32
5.2.4.9	Version	32
5.2.4.10	HDD Capacity	32
5.2.4.11	Free Space	32
5.2.4.12	Last Updated	32
5.2.4.13	Status	33
5.2.4.14	Docking the window	33
5.2.5. L	ocal Data Viewer	33
5.2.5.1	Health Data	34
5.2.5.2	Event Data	34
5.2.5.3	Record Data	35
5.2.6. F	ile Player	36
5.2.7. 8	System Log	37
5.3. DV	R	38

5.3.1. E	DVR Menu	38
5.3.1.1	Quick Setup	40
5.3.1.2	Screen	40
5.3.1.2.1	Auto Sequence	40
5.3.1.2.2	Display	41
5.3.1.2.3	Title	41
5.3.1.2.4	Multi-screen	42
5.3.1.2.5	Covert	42
5.3.1.2.6	Spot	43
5.3.1.2.7	Camera	43
5.3.1.3	Record	44
5.3.1.3.1	Record	44
5.3.1.3.2	Record program	44
5.3.1.3.3	Audio	45
5.3.1.3.4	Holiday	45
5.3.1.4	Event	46
5.3.1.4.1	Event	46
5.3.1.4.2	Motion detection	46
5.3.1.4.3	Face detection	47
5.3.1.4.4	Sensor input	47
5.3.1.4.5	Relay output	48
5.3.1.5	System	48
5.3.1.5.1	System	48
5.3.1.5.2	HDD	49
5.3.1.5.3	Clock	49
5.3.1.5.4	Advanced setup	50
5.3.1.6	Link	50
5.3.1.6.1	Network	50
5.3.1.6.2	RS-232C	51
5.3.2. E	DVR Copy	53
5.3.3. 5	Search & Play	54
5.3.3.1.	Time Search	54
5.3.3.2.	Calendar Search	56
5.3.3.3.	DVR Log Search	57
5.3.4. F	Record Schedule	58
5.4. Too	bls	59
5.4.1. C	Dption	59

5.5.	Window	61
5.5.1.	Dock All Windows	61
5.5.2.	Undock All Windows	61
5.6.	Help	.62
5.6.1.	About	62
5.7.	Live Monitor icon	.62
5.8.	Device Manager icon	62
5.9.	Add Item icon for Group Monitor	62
5.10.	Edit Item icon for Group Monitor	.63
5.11.	Del Item icon for Group Monitor	64
5.12.	Record Start/Stop icon	.64
5.13.	Record Schedule icon	65
5.14.	Time Search icon	65
5.15.	Calendar Search icon	.65

1. INTRODUCTION

With this CMS, Central management software allows administrator to manage several DVR systems through network located in different sites from one point of control. You can monitor the DVRs through network at any time. You can also proceed to set up the remote system configuration

Unlimited number of devices

This CMS is enterprise-level software which encompasses monitoring of up to 64 different sites and enables recording of an unlimited number of cameras. The CMS connects, monitors, manages and records all Artnix DVR family products and IP server family products.

Unlimited e-map

The location of a site does not have to be restricted to just one map. Different views and different angles can be added for strategic camera placement and status updates.

Multiple monitor support

This CMS allows detachment of its six major components: live view, health status, e-map, playback, preview, and camera groups for simultaneous, detailed control and accurate monitoring at a glance.

Status report

This CMS reports the status of each device in real-time so that immediate responses can be deployed. Visual and Audio cues are displayed in various screens to attract an immediate attention.

2. SYSTEM REQUIREMENTS

Before installing this CMS, make sure that your computer meets the following recommended requirements as shown in Table 1.

	Recommended
OS	Windows XP or Vista
CPU	Pentium IV 2.8 Ghz
RAM	512MB
Video Card	128MB
Free Space	2GB
Resolution	1024x768x32
DirectX	DirectX 9.0c
Network	Ethernet 10/100B-TX
Port	Port 5400 ~ 5499 TCP

Table 1. Hardware Requirements

3. INSTALLATION

🕞 Setup - CMS	
	Welcome to the CMS Setup Wizard
	This will install CMS 1.00.00.5_test on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	<u>N</u> ext > Cancel

Insert the program CD into the CD-ROM or DVD-ROM drive of the computer and you can see the CMS_Setup.exe file.

Double-click on the setup file, and the program will start the installation.

Click on Next to continue.

i 🖗 Setup - CMS	The CMS will be installed in its default
Select Destination Location Where should CMS be installed?	folder of C:\Program Files\DVR\CMS. If the
Contra collicitati CMC into the Official college	folder needs to be changed, click on
Setup will install CMS into the rollowing roller.	"Browse " button and then select a
E:\#Program Files\#DVR#CMS Browse	different folder.
	If you select the folder to be installed, click
	the Next button to continue.
At least 21.7 MB of free disk space is required.	
(Back Next > Cancel	

i Setup - CMS	The progra
Select Start Menu Folder Where should Setup place the program's shortcuts?	its default
Seturi will create the program's shortcuts in the following Start Menu folder	to be char
To continue, click Next. If you would like to select a different folder, click Browse.	and then s
Browse	And if yo
	program's
	the "Don't
Don't create a Start Menu folder	If you sele
Cancel	the Next

am's shortcuts will be installed in folder of CMS. If the folder needs nged, click on "Browse..." button elect a different folder.

ou don't want to create the shortcut in the start menu, check create a Start Menu folder" below.

ect the folder to be installed, click button to continue.

😼 Setup - CMS	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing CMS, then click Next. Additional icons: I Create a gesktop icon	
(<u>B</u> ack) <u>N</u> ext > C	ancel

Click the Next button.

If you don't want to create a desktop icon, do not check the "Create a desktop icon".

Setup - CMS Image: CMS Ready to Install Setup is now ready to begin installing CMS on your computer. Image: CMS	Click the button to install CMS
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\#Program Files\#DVR\#CMS	
Start Menu folder: CMS	
Additional tasks: Additional icons: Create a desktop icon	
<u></u>	
<u>S</u>	
< Back Install Cancel	

🔂 Setup - CMS	
Installing Please wait while Setup installs CMS on your computer.	
Extracting files C:₩Program Files₩DVR₩CMS₩DvrViewer.exe	
	Cancel

And the program will start the installation.

🕞 Setup - CMS	
	Completing the CMS Setup Wizard Setup has finiched installing CMS on your computer. The application may be launched by selecting the installed icons. Click Finish to exit Setup. Launch CMS
	<u> </u>

Click **Einish** the button to

complete the installation.

If you want to open the CMS now, check the "Launch CMS" and then Link the button.

4. STARTING CMS SOFTWARE

Locate the CMS icon on the desktop and double-click on it to run the software. The program can also be located in START-Programs-CMS.

4.1 Creating administrator's password



When the CMS is run for the first time, it will ask for the administrator's password. Input a password of up to 20 alphanumeric characters in Password and Confirm Password and click the "Submit" button.

NOTE: You have to input the setting password whenever run the CMS so please note it not to forget.

Registe	r 🛛 🔀
(į)	You have successfully registered the account,
	ОК

And you can see the message window like the left picture. Click the "OK" button.



Input the registered password and click the "OK" button.

4.2 Creating a new user's password



If you want to create a user password additionally, click the "Options>>" button and you can see "Register New User" item like the left picture. Check the "Register New User".



And you can see the password window to create the user's password.

Input the desired user name, password and confirm password and then click the "Submit" button.



And you can see the message window like the left picture. Click the "OK" button.

4.3 Login

There are two kinds of password, Administrator password and User password. Each one has different authority.

- Administrator: Can control all functions of the CMS and authorize each user.
- User: ① Can see "Group" and "Live Screen".
 - ② Can see "Preview" on E-map but cannot change, add or delete the location.
 - ③ Can see DVR name, Channel number, DVR type and Status on "DVR List" but cannot enter "DVR menu" and "DVR copy" window.

- ④ Cannot enter "Data Search" window and "System log" window.
- (5) Cannot change the record setup
- (6) Can set up only some parts in Option menu.

G Type	Type your user name and password						
User name:	Administrate	or					
Password:							
	ОК	Cancel	Options <<				
📕 Register New User							

Input a User name and a Password on the left password window and then click "OK" button.

5. CMS main window-Layout

If you login successfully, the following CMS main window will be appeared.

The main window provides the entire functionality, the control of CMS and the status of connected DVRs.



5.1. File 5.1.1. Log Off

You can log off when you step out.



Click on "File" and then click on "Log Off" to log off the CMS.



And you can see the left password window. If you want to log in the CMS again, you have to input the password and click the "OK" button. If you want to close the CMS window, click the "Cancel" button.

5.1.2. Exit



Click on "File" and then click on "Exit" to close the CMS window.

5.2. View

5.2.1. Device Manager

The CMS can manage DVR search, DVR list up, DVR status and data search etc.

Click on "View" and click on "Device Manager" or click the Device Manager icon and you can see the Device Manager window.

CMS	
lla Vaco DyF. India Window Help	
© 25 Divise Mansar 25 pt 5 pt Ø Lier Steven ■ Li-Mac Manhar Sata Panhar	
Trist Dita Viewe Fie Page Nation org	



1	2 3	4 5	6				
🕱 De	vice Mana	ager					
¢.	Ø	≝ ⊈	4				
CH No.	Model	Name		IP Address	MAC Address	Status	UD.

5.2.1.1 Add Item

Device Manager D									
No.	Model	Name	IP Address	MAC Address	Status				

Click the "Add Item" icon to be indicated on the left picture and the below window will be open.

F 🖉 🗐		4			
ЭН					Property
No. Model	Name	IP Address	MAC Address	Status	Model DVR 🗸
1					Name IP Address Port 5400 Connect through IP Server MAC Address User ID Password Apply Cancel

5.2.1.1.1 Model

Select a model, DVR or another device to be listed. The CMS can support some products of other companies to have a partnership.

5.2.1.1.2 Name Input a desired name of DVR to be listed.

5.2.1.1.3 IP address

Input IP address of a DVR to be listed.

5.2.1.1.4 Port number

Input a Port number of a DVR to be listed.

5.2.1.1.5 Connect through IP Server and MAC Address

If you want to connect by dynamic IP, check the "Connect through IP Server" and MAC address input blank will be available.

And input MAC address of a DVR to be listed.

If you check the "Connect through IP Server", the DVR will be connected using MAC address not IP address.

5.2.1.1.6 User ID and Password

Input User ID and Password of a unit to be listed. In case of DVR, you don't need to input user ID.

5.2.1.1.7 Apply or Cancel

If you want to register the DVR(or another device) in the DVR list, click the "Apply" button or press the "Enter" button of keyboard. Or if you want to cancel the registration, click the "Cancel" button or press the "Esc" button of keyboard.

5.2.1.2 Edit Item

		4 4 4			
4	Edit Item				
No.	Model	Name	IP Address	MAC Address	Status
(1	DVR N-6	DVR 453630	211.174.251.198	000A2F204359	ок
12	DVR P-7	DVR 453632	211.174.251.197	000A2F001063	OK
13	DVR N-9	DVR 453633	211.174.251.174	000A2F20AAAA	OK
4	DVR N-8	DVR 453634	211.174.251.178	000A2F205755	OK
15	DVR N-7	DVR 453771	211.174.251.216	000A2F203CCC	OK
16	DVR N-8	DVR 453772	211.174.251.222	000A2F205BAF	OK
17	DVR N-1	DVR 453773	211.174.251.219	000A2F20053B	0k.,
18	DVR N-6	DVR 453775	211.174.251.217	000A2F001068	OK
19	DVR N-8	DVR 453776	211.174.251.221	000A2F20829E	OK

Highlight a desired DVR in DVR list and click the "Edit Item" icon to be indicated on the left picture and the below edit window will be open.

NOTE: Refer to chapter $5.2.1.1.1 \sim 5.2.1.1.7$ for more information of edit window.

÷	2 5	2 4	7				
CH 🧧			8 8888)	Property	12
No.	Model	Name	IP Address	MAC Address	Status	Model	DVR
1	DVR N-6	DVR 453630	211.174.251.198	000A2F204359	OK	Name	DVR 453630
12	DVR P-7	DVR 453632	211.174.251.197	000A2F001063	ОК	IP Address	211.174.251.198
3	DVR N-9	DVR 453633	211.174.251.174	000A2F20AAAA	OK	Port	5400
4	DVR N-8	DVR 453634	211.174.251.178	000A2F205755	OK	POIL	5400
15	DVR N-7	DVR 453771	211.174.251.216	000A2F203CCC	OK	Connect t	hrough IP Server
6	DVR N-8	DVR 453772	211.174.251.222	000A2F205BAF	OK	MAC Address	000A2F204359
7	DVR N-1	DVR 453773	211.174.251.219	000A2F20053B	OK	Licer ID	
8	DVR N-6	DVR 453775	211.174.251.217	000A2F001068	OK	User ID	
19	DVR N-8	DVR 453776	211.174.251.221	000A2F20829E	OK	Password	*****

5.2.1.3 Delete Item

	25	446	7		
н 🧧		I Item 🗐 🗐 🗐	9 9995		
No.	Model	Name	IP Address	MAC Address	Status
1	DVR N-6	DVR 453630	211.174.251.198	000A2F204359	OK
12	DVR P-7	DVR 453632	211.174.251.197	000A2F001063	Request Status
3	DVR N-9	DVR 453633	211.174.251.174	000A2F20AAAA	OK
4	DVR N-8	DVR 453634	211.174.251.178	000A2F205755	OK
15	DVR N-7	DVR 453771	211.174.251.216	000A2F203CCC	OK
16	DVR N-8	DVR 453772	211.174.251.222	000A2F205BAF	OK
7	DVR N-1	DVR 453773	211.174.251.219	000A2F200538	OK
-8	DVR N-6	DVR 453775	211.174.251.217	000A2F001068	OK
919	DVR N-8	DVR 453776	211.174.251.221	000A2F20829E	OK

Highlight a desired DVR in DVR list and click the "Del Item" icon to be indicated on the left picture.



If you want to delete the selecting list, click the "Yes" button. Or if you don't want to delete the selecting list, click the "No" button.

5.2.1.4 Connect DVR

CH 🥅 No.	990	Connect DVR			
No.					
	Model	Name	IP Address	MAC Address	Status
1	DVR N-6	DVR 453630	211.174.251.198	000A2F204359	Stoped
2	DVR P-7	DVR 453632	211.174.251.197	000A2F001063	Request Status
3	DVR N-9	DVR 453633	211.174.251.174	000A2F20AAAA	OK
4	DVR N-8	DVR 453634	211.174.251.178	000A2F205755	OK
\$	DVR N-7	DVR 453771	211.174.251.216	000A2F203CCC	OK
6	DVR N-8	DVR 453772	211.174.251.222	000A2F205BAF	OK
7	DVR N-1	DVR 453773	211.174.251.219	000A2F20053B	OK
18	DVR N-6	DVR 453775	211.174.251.217	000A2F001068	OK
9	DVR N-8	DVR 453776	211.174.251.221	000A2F20829E	OK

Highlight a connecting DVR in DVR list and click the "Connect DVR" icon to be indicated on the left picture.

If the DVR is connected normally, you can see "OK" in Status and the DVR icon will be green.

5.2.1.5 Disconnect DVR

÷.	28	226	7		
:н 💽		Discon	nect DVR 🗐 🗐 🗐)
No.	Model	Name	IP Address	MAC Address	Status
11	DVR N-6	DVR 453630	211.174.251.198	000A2F204359	OK
12	DVR P-7	DVR 453632	211.174.251.197	000A2F001063	Request Status
3	DVR N-9	DVR 453633	211.174.251.174	000A2F20AAAA	OK
4	DVR N-8	DVR 453634	211.174.251.178	000A2F205755	OK
15	DVR N-7	DVR 453771	211.174.251.216	000A2F203CCC	OK
6	DVR N-8	DVR 453772	211.174.251.222	000A2F205BAF	OK
17	DVR N-1	DVR 453773	211.174.251.219	000A2F20053B	OK
	DVR N-6	DVR 453775	211.174.251.217	000A2F001068	OK
9	DVR N-8	DVR 453776	211.174.251.221	000A2F20829E	OK
		one noorro		000110 1000070	

Highlight a disconnecting DVR in DVR list and click the "Disconnect DVR" icon to be indicated on the left picture.

If the DVR is disconnected normally, you can see "Stopped" in Status and the DVR icon will be gray.

5.2.1.6 Search DVR

Within a local area network environment (LAN), it is possible to automatically scan and list available DVRs to be added to the DVR list.

🖲 De	vice Man	ager							
A CH									
No.	Model	Name	IP Address	MAC Address	Status				

Click the "Search DVR" icon to be indicated on the left picture.

lo	DVR Name	IP Address	MAC Address
1	ANX DVR-XYVP	211.174.251.198	000A2F204359
2	ANX DVR-XY VP	211.174.251.217	000A2F001068
3	ANX DVR-XYVP	211.174.251.177	000A2F203EA8
4	ANX DVR-XYVP	211.174.251.219	000A2F20053B
5	ANX DVR-XY VP	211.174.251.178	000A2F2090F5
6	ANX DVR-XYVP	211.174.251.221	000A2F20829E
7	ANX DVR-XYVP	210.219.197.253	000A2F20AAAA
8	ANX DVR-XYVP	211.174.251.216	000A2F203CCC
9	ANX DVR-XY VP	211.174.251.197	000A2F001122
10	ANX DVR-XYVP	211.174.251.222	000A2F205BAF
11	ANX DVR-XYVP	211.174.251.207	000A2F201A8A

And the left window will be open.

- Local IP: IP address of the PC to be installed CMS
- Scan: To search the available DVRs
- Add Selected: To add the selected DVR to the DVR list.
- Add All: To add all available DVRs to the DVR list.
- Close: To close the DVR search window.

5.2.1.7 Preview window display per channel

		2 2 6	2		
)
0,	Camera 1	Name	IP Address	MAC Address	Status
1	DVR N-6	DVR 453630	211.174.251.198	000A2F204359	ок
12	DVR P-7	DVR 453632	211.174.251.197	000A2F001063	Connecting.0
13	DVR N-9	DVR 453633	211.174.251.174	000A2F20AAAA	OK
14	DVR N-8	DVR 453634	211.174.251.178	000A2F205755	OK
15	DVR N-7	DVR 453771	211.174.251.216	000A2F203CCC	OK
6	DVR N-8	DVR 453772	211.174.251.222	000A2F205BAF	OK
17	DVR N-1	DVR 453773	211.174.251.219	000A2F20053B	Request Status
18	DVR N-6	DVR 453775	211.174.251.217	000A2F001068	OK
	DUD NLO	DUD 452776	211 174 251 221	000825209205	OV

Highlight a desired DVR and double-click a desired camera icon.



And preview window will be displayed next to the selected camera icon.

If you double-click on the preview window, the preview window will be closed.

5.2.2. Live Screen and Live Monitor

You can display up to 64 channels with this CMS.

Click on "View" and click on "Live Screen" or select a desired DVR in GROUP MONITOR and click the "Live Monitor" icon or double-click a desired DVR in GROUP MONITOR.

is New MR Table Neders Hele								
ie Nep Thu Tools Support Tep								
🕤 🚯 De-Ine Manaper 🛛 📰 👘	69 📑							
D Live Screen								
E-Map Menter	CH 📻	nee (8888 B	888 B		1		P
Sistus Munitur - DAR]	435	terre	3F Address	ON: Address	chain	DAR Days	Record Store	Derson
🕅 Local Pata Maure	5.0	010 15360	211.171.251.178	00042F204399	16	п		2.885_T
En coranzola merici	12	D9R 403622	211.174.211.197	0002/201053	16	P		2.0010
Me Player	4 3	D/R -153653	211.174.251.174	00042F20AAAA	16	N	4838 ·····	2.88023
System Log	44	D9R-453624	211.174.211.128	000021205255	4	N		2.0002
		DIR +63771	211.174.251.216	00042F2090000	16	N	ABANANNANANANAN	2.88FB_
Table of the second second second	- A P	D9R 483722	211.124.221.222	III. IA/TOINEAT	4	N		2.191.0
tion procession (care)	-47	DIR +63773	211.174.201.219	00342F20053B	16	N	ABABABABABABABABA	2.5677
	Sec. 1	D9R 483725	211.174.201.217	INCOMPOSITOR OF	1h	N		2.191 1
- NIB DAY 403633 [010]	95	DNR -03776	211.174.201.221	00002F20029E	0	N	04 NO	2.00013
- "We DWR +C0600 [019]								
- Nije EVR +02620 [OH IC]	_							
NR 45622 [OH IL]								
Sile (25) (536321 OH (21)								
THE PAR ADVANT/ HIST	1							
The part of the last	-							
diameter of the second second second								
- 400 tox8 400400 [0114]								
- 100 [0000 [0000] 0000 [0000]								
🗄 🞻 DVR HE3632 (DOCA2FC00068 - DVR.) 🛛								
1 HO 159692 RVR 499692								
Sig (20 49692 104 21								
THE PART OF A STATE OF A ST								
and the second second								
all the sector () and]								
- mga DVR 403632 [016]								
- New DWR 403632 [016]								
- Web EVR +00632 [047]								
Sile (VS +52622 OH 0								
Sile (VD 45/6321/04/91								
The set depend of the lot	0							

							(- 🗆 🖂
Die giew Dyfi Jaols Bindew Help								
🕲 🛷 🌡 🔗 🕹 🐇 🕇	i 🕞 🕯							
Live Monitorypup repeation	CH.							•
a 🐠 par nona (canas anno 1000)	A							
-Sim the encount court	Ata	. Nene	JP Acidnes	Apr. Address	Childen	Deg She	Republic	Vanan
This was appended to a 1		DvR 453630	211.174.251 198	00392F20H359	15	N	NUMBER DESIGNATION NEEDS AND	2 CDE_TES
The sup strate from 1	100	098 4538.52	211124251157	00.3429C000.53	15	P		239415_
- da para apropi curo i	13	DVK 403603	211.174.201.17+	000027200000	1.0	n	NAME.	2 00000
		042153631	211.171.201.178	00.029206755	4			2110013
-168 048 45300E CH0		0991403973	241.474.003.639	00.04292.000.00	1.5		IS IN THE IS INTERNAL AS INTERNAL	260600
Ngp Ovft 153630 [CH 6]		1000 000000	101 114 101 110	COLUMN THE PROPERTY	10		INVERSE AND A DESCRIPTION OF	7.000
- Nga Ovtr. 153630 [CH 7]		040 403710	201.074.001.017	0010050100100	16	N		2.005.700
Sec. 1 (1998) 1998 [CH 8]	10	042 455776	201.124.251.221	III ARE INCOME.	8	N	NAMES OF THE OWNER OWNER OF THE OWNER	225516
- Nin DVE (\$36301 CH 01								
tion to pays a second control of								
the new second cards								
and the state of the set								
-100 D48 453030 [CH (3]								
-160 D4R 453030 [CH14]								
-%# 548.453030 [CH LS]								
- Net DVR 453630 (CH L6)								
🗄 🛷 D/R. (926921.030A2F00.062 - D/R.1								
- 100 DVP 1596321 CH 1 1								
500 SVP 159521 CH 2 1								
THIS DOD ADDRESS CALCULAT								
The second second second								
- ap the issue (Crist								
-40 D0468537[CFS]								
"High DVR 452032 [CHIO]								
"iga GVR 453032 [CH 2]								
"iga GVR 453032 [CHO]								
-Nija DVR 453032 [CH 9]								
- Nin Ovt. (\$3032) (CH L0)	× <							2
	1000						2006-06-01 0 20	11-32-33



And you can see the live screen like the left picture. Select and drag a desired DVR or a camera from Group list or Device Manager to the live screen and the image of each channel will be displayed like the left picture.

Or if you double-click on a DVR or a Camera of Group list or click the Live Monitor icon on a DVR or a Camera of Group list, the live image to be selected will be displayed.

- R: If you click the "R" button to be indicated by the red circle of the left picture, the live screen will be arranged to 720x480, original ratio. And if you click the "R" button again, the live screen will be enlarged or reduced to meet each screen, normal ratio.
- D: If you click the "D" button to be indicated by the red circle of the left picture, the live screen will be docked to CMS main window. If you click the "x" button of the Live screen, the Live screen will be undocked.



And if you select a desired camera in GROUP MONITOR and click the "Live Monitor" icon or double-click a desired camera in GROUP MONITOR, you can see the Preview window of the selected camera. If you double-click on Preview window, the Preview window will be close.

5.2.2.1 Split screen display

If you click one of the buttons to be indicated by the red arrows of the below pictures, you can see each split screen like the below pictures.

For example, if you click the "49" button, you can see the live screen of 49 split (49 channels).



5.2.2.2 Full screen display



Double-Click a desired channel and the full screen of the channel will be displayed. If you want to return the previous split screen, double-click on full screen again.

5.2.2.3 Disconnect one channel



Click the right button of the mouse on a desired channel and highlight "Disconnect" and click the left button of the mouse to disconnect the selected channel.

5.2.2.4 Disconnect all channels



Click the right button of the mouse on a desired channel and highlight "Disconnect All" and click the left button of the mouse to disconnect all channels.

5.2.2.5 Audio On



Click the right button of the mouse on a desired channel and highlight "Audio On" and click the left button of the mouse to turn on the audio.



And if the audio turns on, the audio icon will be displayed on right above the selected channel like the left picture.

5.2.2.6 Snapshot



Click the right button of the mouse on a desired channel and highlight "Snapshot" and click the left button of the mouse to capture the image.



And the snapshot image window will be displayed.

5.2.2.6.1





Click the "Print" button to be indicated by the red circle of the left picture to print the captured image.

Printer		
Name:	\\controller\000 LBP-2320 PCL	5e 🔽 Properties
Status:	Ready	
Туре:	IIII LBP-2320 PCL5e	
Where:	LPT1:	
Comment		
Print range		Copies
• All		Number of copies: 1
O Pages	from to	
(C) Palaci		23 23 Collate
	oon	





And you can see the message window like the left picture if the image is printed successfully. And then click the "OK" button.

5.2.2.6.2 Save a captured image



Click the "Save" button to be indicated by the red circle of the left picture to Save the captured image file in your PC.



Select the folder to save the file and input a desired file name in "FILE NAME" to be indicated by the red arrow of the left picture and then click the "Save" button to be indicated by the red circle of the left picture. The file format of the snapshot is JPEG.

5.2.2.6.3 Cancel a captured image



Click the "Cancel" button to be indicated by the red circle of the left picture if you don't want to save or print the captured image.





Click the right mouse button on a desired channel and highlight "PTZ Control" and click the left mouse button to open the PTZ control bar.



Pan, Tilt and Zoom cameras can be controlled remotely through the CMS.

a. Directional buttons / Autofocus

Move the PTZ camera using the directional buttons. Toggle Autofocus on or off by clicking on AF. b. Set preset points

Move the PTZ camera to the desired location, and then click on any of the 16 buttons to set a preset position.

c. Move to preset points

Click on any of the 16 buttons to move the PTZ camera to predefined preset position.

d. Zoom control

Zoom in and out by clicking on the – or + buttons.

- e. PTZ movement speed Select the movement speed ratio.
- f. Focus control

Focus in and out by clicking on the – or + buttons.

5.2.3. E-Map Monitor

E-map is a graphical overview to indicate the locations of the cameras. This feature is particularly useful during the installation of a new security system as site locations where camera installation seems most appropriate can be easily identified. E-Map also provides a visual grasp of the vicinity to users who are unfamiliar or new to the area under surveillance. By viewing an E-map, security personnel can identify the surroundings and rush to a location immediately and secure



Click on "View" and click on "E-Map Monitor".



5.2.3.1 Add New Map



Click the "Add New Map" icon to load a map into the E-Map Monitor.

NOTE: Map should support JPEG or BMP format.



Select a map you want to load and click the "Open" button.



You can see the map loaded into the E-map window.

5.2.3.2 Add Sub Map Link

If you want to add a sub-map, click the "Add Sub Map Link" icon or click the right button of the mouse on a desired list of E-map list and click on "Add Sub Map Link". The loaded sub-map is linked to the high map and if you double-click the link icon in the high map, you can open the linked sub-map directly.







Select a map you want to load and click the "Open" button.



You can see the map loaded into the E-map Monitor by sub-map.

And a blue map link icon will be created on left above of high map.

5.2.3.3 Edit Map

E-map editor provides the functions that enable user to set up the locations of cameras in the Emap to help the administrator to have the connection between camera and map. The map supports hierarchy structure and can let administrator easy to manage the remote cameras and DVRs. You can move the location of camera icon or map link icon or change the map name. NOTE: Only the administrator is authorized to create and edit the e-map and users can only monitor.



Select an editing map in e-map list and click the "Edit Map" icon.



5.2.3.3.1 Map link icon

Move the map link icon to a desired position.

If you double-click a map link icon, the linked map will be displayed.

5.2.3.3.2 Name and File name

Input a desired name and a file name of selected map and click the "Save" button.

5.2.3.3.3 Camera icon

Drag and drop a desired camera from Group list or Device manager into E-map editing window. And a camera icon will be created.



If you double-click the camera icon in the map, the preview window of each camera will be displayed in a map like the left picture.

Double-click again to close the preview window.

5.2.3.3.4 Display a camera direction

Click a desired camera icon in a map and click a desired camera direction icon.

5.2.3.3.5 Remove a camera



Click a desired camera icon in a map and click the "Remove Cam" button. And the selected camera icon will be removed. And you can see the left "Confirm Delete" window. If you want to delete, click the "Yes" button.

5.2.3.4 Remove Map Tree



Click the "Remove Map Tree" icon to delete the selected map and sub-maps.



If you want to delete the map tree, click the "Yes" button.

5.2.3.5 Dock the CMS E-Map Monitor

If you click the "D" button, the "CMS E-Map Monitor" window will be docked to CMS main window. If you click the "x" button of the "CMS E-Map Monitor" window, the "CMS E-Map Monitor" window will be undocked.

5.2.4. Status Monitor

The CMS can support Health Check function.

The CMS system automatically checks the DVR health status and save these health information in the database which can provide external application for usage. You can see the recording status per channel, HDD capacity and free space, last updated date and time and connection status etc. on "DVR Status Monitor" window.



Click on "View" and click on "Status Monitor".

2	3	4	5	6	7	8	9	10	11	12	13	
🛞 D VF	R Status <mark>Monito</mark>	r										
СН 🤶	1999 E	00000	998 9									
A No.	Name	IP Address	MAC Address	ChNum	DVR Type	Record Status	Version	HDD Capacity	% FreeSpace	Last Updated	Status	11
- (1	DVR 453630		000A2F204359		N		2.88E_TEST	381554 MB	79.0%	2008/09/01 13:01:26		
	DVR 453632	211.174.251.197	000A2F001063	16	P	N	2.88F16	152627 MB	95.9%	2008/09/01 12:57:52	OK	
3	DVR 453633	211.174.251.174	000A2F20AAAA	16	N	NNNN	2.88D28	238475 MB	81.2%	2008/09/01 12:58:36	OK	
14	DVR 453634	211.174.251.178	000A2F205755	4	N		2.88D28_L	152627 MB	99.9%	2008/09/01 12:58:04	OK	
15	DVR 453771	211.174.251.216	000A2F203CCC	16	N	NNNNNNNNNNNNN	2.88F8_EXB	78533 MB	0.1%	2008/09/01 12:59:02	OK	
96	DVR 453772	211.174.251.222	000A2F205BAF	4	N		2.88D22	152627 MB	0.1%	2008/09/01 12:59:26	OK	
17	DVR 453773	211.174.251.219	000A2F20053B	16	N	NNNNNNNNNNNNN	2.88F7	114498 MB	0.1%	2008/09/01 12:59:24	OK	
98	DVR 453775	211.174.251.217	000A2F001068	16	N	-E-E-E-E-E-E-E	2.88E_TEST	19465 MB	0.1%	2008/09/01 12:58:58	OK	
9	DVR 453776	211.174.251.221	000A2F20829E	8	N	N N N N N N N N	2.88D16_T	152627 MB	0.1%	2008/09/01 12:58:59	ок	

5.2.4.1 DVR status indication

- Green: Normal working
- Red: Event working
- Gray: Not enable check of edit window
- ? : Abnormal working

5.2.4.2 No.

It's a order to be listed in CMS.

5.2.4.3 Name

It's a name of DVR to be registered.

If you want to change a name, highlight a desired DVR and input a changing name in 17. a blank next to Name and then click the 27. "Save" button.

5.2.4.4 IP address

It's IP address of DVR to be registered.

5.2.4.5 MAC address

It's MAC address of DVR to be registered.

5.2.4.6 Channel number

It shows a DVR's channel number. For example, if the connected DVR is 16 channel, it'll be displayed 16.

5.2.4.7 DVR Type

It shows what kind of model.

5.2.4.8 Record Status

It shows recording status.

- N: Normal recording
- E: Event recording
- S: Schedule recording
- -: Record off

5.2.4.9 Version

It shows firmware version of DVR.

5.2.4.10 HDD Capacity

It shows total HDD capacity to be installed in DVR including HDD expansion bays.

5.2.4.11 Free Space

It shows free space of HDDs to be installed in DVR including HDD expansion bay.

5.2.4.12 Last Updated

The CMS receives and updates information from DVRs every 1 minute and this shows the last updated time. So you can guess from when a DVR has a problem.

5.2.4.13 Status

It shows DVR's status.

- OK: DVR is connected normally.
- Connecting: It is trying to connect the DVR.
- Stopped: DVR is disconnected.
- Fail to Connect: It is failed to connect the DVR by wrong internet connection or wrong IP address.
- Fail to Get IP: It is failed to get the IP address using IP server.
- Invalid IP Address: The IP address is invalid.
- Denied from DVR: To be denied the login from DVR.
- ADMIN Already Connected: The administrator is already connected to the DVR.
- Wrong Password: The password is wrong.
- DVR ADMIN OK: It is normally connected to the DVR using administrator password.
- DVR USER OK: It is normally connected to the DVR using user password.
- Request Status: CMS is checking the DVR status.

5.2.4.14 Docking the window

If you click the "D" button of the "DVR Status Monitor" window, the window will be docked to CMS main window. If you click the "x" button of the "DVR Status Monitor" window, the window will be undocked.

5.2.5. Local Data Viewer

Any DVRs that are connected online can be accessed to do data search remotely from the DVR and then transmit to the CMS for remote playback.



Click on "View" and then click on "Local Data Viewer" to open "Local Data Search" window.

	Local Data Searc	h – DVH 4	53630-000	IA2F2U43	159			
	DVR - 000A2F204359	Health Data	Event Data	Record Dat	a			
		Date Time		Temp	Record	Version	HddFree	
-1	🚽 DVR 453630 🛛 💙	2008/09/03	14:23:47	0	· · · · ·	2.88	78.9%	
		2008/09/03	14:18:42	0		2.88	78.9%	
- 1	and the second s	2008/09/03	14:13:41	0	····	2.88	78.9%	
- 11	< 2008년 9월 እ	2008/09/03	14:08:40	0	· · · · ·	2.88	78.9%	
- 11	이 위 취 스 묘 그 드	2008/09/03	14:03:38	0	· · · · ·	2.88	78.9%	
	일 월 와 우 속 금 도	2008/09/03	13:58:38	0	· · · ·	2.88	78.9%	
	120456	2008/09/03	13:53:38	0	····	2.88	78.9%	
	7 8 9 10 11 12 13	2008/09/03	13:48:38	0	· · · · ·	2.88	78.9%	
	14 15 16 17 18 19 20	2008/09/03	13:43:37	0	· · · · ·	2.88	78.9%	
	21 22 23 24 25 26 27	2008/09/03	13:38:38	0		2.88	78.9%	
	28 29 30	2008/09/03	13:33:37	0	····	2.88	78.9%	
		2008/09/03	13:28:36	0	· · · · ·	2.88	78.9%	
		2008/09/03	13:23:36	0	· · · · ·	2.88	78.9%	
- H		2008/09/03	13:18:36	0		2.88	78.9%	
		2008/09/03	13:13:35	0		2.88	78.9%	
		2008/09/03	13:08:34	0	· · · · · · · · ·	2.88	78.9%	
		2008/09/03	13:03:34	0	· · · · ·	2.88	78.9%	
		2008/09/03	12:58:34	0	· · · · ·	2.88	78.9%	
		2008/09/03	12:53:34	0	· · · · ·	2.88	78.9%	
		2008/09/03	12:48:33	0	· · · · ·	2.88	78.9%	
		2008/09/03	12:43:32	0	· · · · · · · · ·	2.88	78.9%	
		2008/09/03	12:38:29	0	· · · · ·	2.88	78.9%	
		2008/09/03	12:33:25	0	· · · · ·	2.88	78.9%	
- 1		2008/09/03	12:28:25	0	· · · · · · · · ·	2.88	78.9%	
		2008/09/03	12:23:24	0	· · · · ·	2.88	78.9%	
		2008/09/03	12:18:23	0	· · · · ·	2.88	78.9%	
		2008/09/03	12:13:16	0	· · · · ·	2.88	78.9%	
		2000/09/05	12.10.10	0		2.00	101210	

5.2.5.1 Health Data

The CMS automatically checks the DVR's health status every 5 minutes and the health information will be saved in the database. The default folder to be saved the data is C\Program Files\DVR\CMS\CmsData\Administrator\MAC address of the DVR\Health.

- a. Click the "v" button and select a desired DVR.
- b. Select a desired date and you can see the data, time, temperature, record status, firmware version and HDD status like the above picture.

5.2.5.2 Event Data

When an event happened in a DVR, the information will be saved.

🖲 Local Data Searc	h - DVR 648791-0	00A2F001068		
DVR - 000A2F001068	Health Data Event Dat	a Record Data		
	DateTime	Ch DVR Mac	Event	~
💜 DVR 648791 🛛 💙	2008/09/11 15:08:46	8 000A2F001068	M -	_
	2008/09/11 15:08:46	16 000A2F001068	M -	
	2008/09/11 15:08:46	4 000A2F001068	M -	
< 2008년 9월 >	2008/09/11 15:08:46	12 000A2F001068	M -	
	2008/09/11 15:08:48	8 000A2F001068		
일 할 와 수 폭 금 보	2008/09/11 15:08:48	16 000A2F001068		
123456	2008/09/11 15:08:48	8 000A2F001068	M -	
7 8 9 10 11 12 13	2008/09/11 15:08:48	16 000A2F001068	M -	
14 15 16 17 18 19 20	2008/09/11 15:08:49	2 000A2F001068	M -	
21 22 23 24 25 26 27	2008/09/11 15:08:49	10 000A2F001068	M -	
28 29 30	2008/09/11 15:08:49	6 000A2F001068	M -	
	2008/09/11 15:08:49	14 000A2F001068	M -	
	2008/09/11 15:08:49	4 000A2F001068		
	2008/09/11 15:08:49	8 000A2F001068		_
	2008/09/11 15:08:49	12 000A2F001068		×

Click the "Event Data" tab and select a desired DVR and date and you can see the event information like the left picture.



If you double-click a desired list in "Event Data" list, the playback window will be displayed. NOTE: Refer to the 5.2.6 File Player for more information of playback window.

5.2.5.3 Record Data

You can save the live files of each camera in your PC and you can search and play in Record Data.

DVR - 000A2F204359	Health Data Event D	lata Record Data	
Control Control <t< th=""><th>Petition On 411.04 On 411.04 ON 41.04 ON 41.04 O</th><th>An overall feet Access feet 2000/0001140000 2000/0001140000 Refer</th><th></th></t<>	Petition On 411.04 On 411.04 ON 41.04 ON 41.04 O	An overall feet Access feet 2000/0001140000 2000/0001140000 Refer	

Click the "Record Data" tab and select a desired DVR and date and you can see the record data list.

The file name means channel and recording time. For example, Ch1(channel number)–20(recording time).dvr.



NOTE: Refer to the 5.10 Record Start/Stop icon for more information.

If you double-click a desired list in "Record Data" window, the saved live image will be played.

NOTE: Refer to the 5.2.6 File Player for more information of playback window.

5.2.6. File Player

You can display the "Playback" window not through the data search.



Click on "View" and then click on "File Player" to open the playback window.

S File Player	And you can see the File Player like the left
No Image	picture. If you click the " 🔄 " button to be indicated by the red arrow, you can select a desired file(.dvr) to play.
	—— h

The remote playback can be controlled just as on the DVR. The remote playback can be played in normal, slow, and fast modes in both forward and reverse direction.

a. Rewind

This button can be toggled for rewind speed of 2x, 4x, 8x, 16x, 32x, 64x and 128x.

b. Reverse slow

This button can be toggled for a slow reverse playback speed of 1/2x, 1/4x, 1/8x, 1/16x, 1/32x, 1/64x and 1/128x.

c. Reverse play

Normal speed playback in reverse direction.

d. Pause

Pause the playback during remote playback or live monitoring.

e. Play

Normal speed playback in forward direction.

f. Forward slow

This button can be toggled for a slow forward playback speed of 1/2x, 1/4x, 1/8x, 1/16x, 1/32x, 1/64x and 1/128x.

g. Fast forward

This button can be toggled for fast forward speed of 2x, 4x, 8x, 16x, 32x, 64x and 128x.

h. Channel select

Click a desired channel button or double-click on desired channel screen, the selected channel will be displayed by full screen. If you want to return the previous split screen, click the channel button or double-click on the screen again.

5.2.7. System Log

System log gives the complete information about users' login details. Each entry will bear the identity of the person who performed the operation.



Click on "View" and then click on "System Log" to open the "Log Info." window.

Check Password
Administrator's Password
Ok

Input the Administrator's password and then click the "OK" button.

1 Adrr 2 Adrr 3 Adrr 4 Adrr 5 Adrr 6 Adrr 7 Adrr 8 Adrr 9 Adrr 10 Adrr 11 Adrr 12 Adrr 13 Adrr 14 Adrr 15 Adrr 16 Adrr 17 Adrr 18 Adrr 20 Adrr 21 Adrr 22 Adrr 23 Adrr 24 Adrr 25 Adrr 26 Adrr 27 Adrr 28 Adrr 29 Adrr	ninistrator ninistrator	Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected	$\begin{array}{c} 2009-69-11 \ \ \ \ 27 \ 1146-17 \\ 2009-69-11 \ \ \ \ \ 27 \ 1147-19 \\ 2009-69-11 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	MAC000AF2030CC MAC000AF2030CC MAC000AF00168 MAC000AF00168 MAC000AF00168 MAC000AF2030CC MAC000AF2030CC MAC000AF2030SB MAC000AF20358 MAC000AF20358	
2 Adrd 3 Adrd 4 Adra 5 Adrd 6 Adrd 7 Adrd 8 Adrd 9 Adrd 9 Adrd 10 Adrd 11 Adrd 12 Adrd 13 Adrd 14 Adrd 15 Adrd 16 Adrd 17 Adrd 20 Adrd 21 Adrd 22 Adrd 22 Adrd 23 Adrd 24 Adrd 25 Adrd 26 Adrd 27 Adrd 28 Adrd 29 Adrd	ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-Out DVR Disconnected Log-Out DVR Disconnected DVR Disconnected	$\begin{array}{c} 2000-00:11 \ \ \ 271 \ 11.47:19 \\ 2000-00:11 \ \ \ 275 \ 31.45:50 \\ 2000-00:11 \ \ \ 275 \ 31.45:50 \\ 2000-00:11 \ \ \ 275 \ 31.45:10 \\ 2000-00:11 \ \ \ 275 \ 31.45:10 \\ 2000-00:11 \ \ \ 275 \ 31.45:10 \\ 2000-00:11 \ \ \ 275 \ 31.45:10 \\ 2000-00:11 \ \ \ 275 \ 31.45:10 \\ 2000-00:11 \ \ \ 275 \ 31.45:10 \\ 2000-00:11 \ \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \\ 2000-00:11 \ \ 275 \ 41.95:10 \ 41.95$	MAC0000A2F200000 MAC0000A2F001122 MAC0000A2F001102 MAC0000A2F001060 MAC0000A2F001060 MAC0000A2F200000 MAC0000A2F200000 MAC0000A2F20092E MAC0000A2F20092E MAC0000A2F20092B MAC0000A2F20092B MAC0000A2F20092B MAC0000A2F20093B MAC000A2F20093B MAC000A2F20093B	
3 Adrd 4 Adrd 5 Adrd 5 Adrd 5 Adrd 5 Adrd 6 Adrd 8 Adrd 9 Adrd 10 Adrd 11 Adrd 12 Adrd 13 Adrd 14 Adrd 15 Adrd 16 Adrd 17 Adrd 19 Adrd 22 Adrd 21 Adrd 22 Adrd 23 Adrd 24 Adrd 25 Adrd 26 Adrd 27 Adrd 28 Adrd 29 Adrd	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	OVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-Out DVR Disconnected DVR Disconnected	$\begin{array}{c} 2000-00.11 \ \ \ \ 2\overline{C} \ \ 11.47;20 \\ 0000-00.11 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	MAC0000A2F2035CC MAC0000A2F001162 MAC0000A2F001068 MAC0000A2F001068 MAC0000A2F2035CC MAC0000A2F200500 MAC0000A2F200508 MAC0000A2F200508 MAC0000A2F200508 MAC0000A2F200508 MAC0000A2F200508 MAC0000A2F201068 MAC0000A2F201058 MAC0000A2F201058 MAC0000A2F201058 MAC0000A2F201058 MAC0000A2F200538	
4 Adrd 5 Adrd 5 Adrd 7 Adrd 8 Adrd 9 Adrd 9 Adrd 10 Adrd 11 Adrd 12 Adrd 13 Adrd 14 Adrd 15 Adrd 16 Adrd 17 Adrd 18 Adrd 20 Adrd 21 Adrd 22 Adrd 23 Adrd 24 Adrd 25 Adrd 26 Adrd 27 Adrd 28 Adrd 29 Adrd	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-Out DVR Disconnected DVR Disconnected	$\begin{array}{c} 2000-00:11 \ \ (2 \overline{s} \ 3:43:55 \\ 0000-00:11 \ \ (2 \overline{s} \ 3:44:03 \\ 0000-00:11 \ \ (2 \overline{s} \ 3:44:04 \\ 0000-00:11 \ \ (2 \overline{s} \ 3:44:12 \\ 0000-00:11 \ \ (2 \overline{s} \ 3:44:12 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 4:07:54 \\ 0000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \\ 0.000-00:11 \ \ (2 \overline{s} \ 5:07 \ $	MAC000A2F001122 MAC000A2F001060 MAC000A2F001060 MAC000A2F2030CC MAC000A2F2030CC MAC000A2F20302CC MAC000A2F203528 MAC000A2F20170A MAC000A2F201708 MAC000A2F201708 MAC000A2F201708	
S Adrd G Adrd R Adrd 8 Adrd 9 Adrd 10 Adrd 11 Adrd 12 Adrd 13 Adrd 14 Adrd 15 Adrd 16 Adrd 17 Adrd 18 Adrd 22 Adrd 21 Adrd 22 Adrd 23 Adrd 24 Adrd 25 Adrd 26 Adrd 27 Adrd 28 Adrd 29 Adrd	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-On DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-On Log-On DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected	$\begin{array}{c} 2000-00:11 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	MAC000A2F001068 MAC000A2F001068 MAC000A2F20050C0 MAC000A2F2050C0 MAC000A2F2052C5 MAC000A2F2052C5 MAC000A2F20538 MAC000A2F20170A MAC000A2F20158 MAC000A2F20538	
6 Adm 7 Adm 8 Adm 9 Adm 9 Adm 10 Adm 11 Adm 11 Adm 12 Adm 13 Adm 14 Adm 15 Adm 16 Adm 17 Adm 18 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected	$\begin{array}{c} 2006-06-11 \ \ \underline{2} \ \underline{2} \ 3 \ 3 \ 4 \ 4 \ 0 \ 5 \ 5 \ 4 \ 4 \ 5 \ 5 \ 4 \ 5 \ 5 \ 4 \ 5 \ 5$	MAC000A2F001068 MAC000A2F203CCC MAC000A2F203CCC MAC000A2F20829E MAC000A2F20829E MAC000A2F20538 MAC000A2F20170A MAC000A2F201708 MAC000A2F201708 MAC000A2F201708	
7 Adrr. 8 Adrr. 9 Adr. 10 Adrr. 11 Adrr. 12 Adrr. 13 Adrr. 14 Adrr. 15 Adrr. 16 Adrr. 17 Adrr. 18 Adrr. 20 Adrr. 21 Adrr. 22 Adrr. 23 Adrr. 24 Adrr. 25 Adrr. 26 Adrr. 27 Adrr. 28 Adrr. 29 Adrr.	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected	$\begin{array}{c} 2008-00-11 \leq \pi \\ 5008-00-11 \leq \pi \\$	MAC000A2F203CCC MAC000A2F200000 MAC000A2F20829E MAC000A2F203CCC MAC000A2F2053B MAC000A2F2053B MAC000A2F201508 MAC000A2F20829E MAC000A2F20829E	
8 Adrr 9 Adrr 10 Adrr 11 Adrr 12 Adrr 13 Adrr 14 Adrr 15 Adrr 16 Adrr 17 Adrr 18 Adrr 20 Adrr 21 Adrr 22 Adrr 23 Adrr 24 Adrr 25 Adrr 26 Adrr 27 Adrr 28 Adrr 29 Adrr	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected	$\begin{array}{c} 2008-08 \pm 11 \leq \pm 3 + 44 \leq 24 \\ 2008-08 \pm 11 \leq \pm 4 + 05 \leq 4 \\ 2008-08 \pm 11 \leq \pm 4 + 05 \leq 4 \\ 2008-08 \pm 11 \leq \pm 4 + 45 \leq 4 \\ 2008-08 \pm 11 \leq \pm 4 + 45 \leq 58 \\ 2008-08 \pm 11 \leq \pm 4 + 45 \leq 58 \\ 2008-08 \pm 11 \leq \pm 4 + 55 \leq 2008-08 \pm 11 \leq \pm 4 + 55 \leq 2008-08 \pm 11 \leq \pm 4 + 55 \leq 2008-08 \pm 11 \leq \pm 4 + 55 \leq 2008-08 \pm 11 \leq \pm 4 + 55 \leq 2008-08 \pm 11 \leq \pm 4 + 55 \leq 2008-08 \pm 13 \leq 27 = 9 + 55 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 27 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 95 \leq 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 \geq 10 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 = 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 = 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 = 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 = 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 = 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 = 28 \\ 2008-08 \pm 13 \leq 77 = 9 + 55 = 28 \\ $	MAC000A2F20000 MAC000A2F208295 MAC000A2F2032CCC MAC000A2F2032053 MAC000A2F20170A MAC000A2F20170A MAC000A2F201068 MAC000A2F20538	
9 Adm 10 Adm 11 Adm 12 Adm 13 Adm 14 Adm 15 Adm 16 Adm 17 Adm 18 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected	$\begin{array}{c} 2008-08-11 \ \underline{C} \stackrel{*}{\underline{a}} \ (107;54) \\ 2008-08-11 \ \underline{C} \stackrel{*}{\underline{a}} \ (139;44) \\ 2008-08-11 \ \underline{C} \stackrel{*}{\underline{a}} \ (145;54) \\ 2008-08-11 \ \underline{C} \stackrel{*}{\underline{a}} \ (145;55) \\ 2008-08-11 \ \underline{C} \stackrel{*}{\underline{a}} \ (145;52) \\ 2008-08-11 \ \underline{C} \stackrel{*}{\underline{a}} \ (145;52) \\ 2008-08-13 \ \underline{C} \stackrel{*}{\underline{a}} \ (145;52) \hline \underline{C} \stackrel{*}{\underline{a}} \$	MAC000A2F20829E MAC000A2F203CCC MAC000A2F20170A MAC000A2F20170A MAC000A2F201068 MAC000A2F201068 MAC000A2F201068 MAC000A2F200538	
10 Adm 11 Adm 12 Adm 13 Adm 14 Adm 15 Adm 16 Adm 17 Adm 18 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-11 오후 4:95:49 2008-08-11 오후 4:45:49 2008-08-11 오후 4:45:59 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 5:49:42 2008-08-13 오전 9:45:19 2008-08-13 오전 9:45:28	MAC000A2F203CCC MAC000A2F200538 MAC000A2F20170A MAC000A2F001068 MAC000A2F20829E MAC000A2F201068 MAC000A2F200538	
11 Adm 12 Adm 13 Adm 14 Adm 14 Adm 15 Adm 16 Adm 17 Adm 18 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	Log-In DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected	2006-08-11 오후 4:45:49 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:52 2008-08-13 오전 9:45:28 2008-08-13 오전 9:45:28	MAC000A2F203CCC MAC000A2F200538 MAC000A2F20170A MAC000A2F20170A MAC000A2F201068 MAC000A2F201068 MAC000A2F200538	
12 Adm 13 Adm 14 Adm 15 Adm 16 Adm 17 Adm 18 Adm 19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-Out DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:52 2008-08-11 오전 9:45:12 2008-08-13 오전 9:45:28 2008-08-13 오전 9:45:28	MAC000A2F203CCC MAC000A2F200538 MAC000A2F20170A MAC000A2F201708 MAC000A2F20829E MAC000A2F20829E MAC000A2F201068 MAC000A2F200538	
13 Adm 14 Adm 15 Adm 16 Adm 17 Adm 18 Adm 19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-Out DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 5:56:24 2008-08-11 오후 5:49:42 2008-08-13 오전 9:45:18 2008-08-13 오전 9:45:28	MAC000A2F200538 MAC000A2F20170A MAC000A2F20170A MAC000A2F201068 MAC000A2F20829E MAC000A2F200538	
14 Adm 15 Adm 16 Adm 17 Adm 18 Adm 19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:45:58 2008-08-11 오후 4:56:24 2008-08-11 오후 5:49:42 2008-08-13 오전 9:45:19 2008-08-13 오전 9:45:28	MAC000A2F20170A MAC000A2F001068 MAC000A2F20829E MAC000A2F001068 MAC000A2F001068 MAC000A2F200538	
15 Adm 16 Adm 17 Adm 18 Adm 19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-11 오후 4:45:58 2008-08-11 오후 4:56:24 2008-08-11 오후 5:49:42 2008-08-13 오전 9:45:19 2008-08-13 오전 9:45:28 2008-08-13 오전 9:45:28	MAC000A2F001068 MAC000A2F20829E MAC000A2F001068 MAC000A2F200538	
16 Adm 17 Adm 18 Adm 19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator ninistrator	DVR Disconnected Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-11 오후 4:56:24 2008-08-11 오후 5:49:42 2008-08-13 오전 9:45:19 2008-08-13 오전 9:45:28 2008-08-13 오전 9:45:28	MAC000A2F20829E MAC000A2F001068 MAC000A2F20053B	
17 Adm 18 Adm 19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator ninistrator	Log-Out Log-In DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-11 오후 5:49:42 2008-08-13 오전 9:45:19 2008-08-13 오전 9:45:28 2008-08-13 오전 9:45:28	MAC000A2F001068 MAC000A2F200538	
18 Adm 19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator ninistrator	Log-In DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-13 오전 9:45:19 2008-08-13 오전 9:45:28 2008-08-13 오전 9:45:28	MAC000A2F001068 MAC000A2F200538	
19 Adm 20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator ninistrator	DVR Disconnected DVR Disconnected DVR Disconnected	2008-08-13 오전 9:45:28 2008-08-13 오전 9:45:28	MAC000A2F001068 MAC000A2F200538	
20 Adm 21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator ninistrator	DVR Disconnected	2008-08-13 오전 9:45:28	MAC000A2F200538	
21 Adm 22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator	DVR Disconnected			
22 Adm 23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 28 Adm 29 Adm	oinistrator		2008-08-13 9:45:28	MAC000A2E001060	
23 Adm 24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	III IOU BUUE	DVR Disconnected	2008-08-13 오전 9:45:28	MAC000A2F20170A	
24 Adm 25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator	DVR Disconnected	2008-08-13 오전 9:45:28	MAC000A2F20829E	
25 Adm 26 Adm 27 Adm 28 Adm 29 Adm	ninistrator	DVR Disconnected	2008-08-13 97 9:45:29	MAC000A2E200000	
26 Adm 27 Adm 28 Adm 29 Adm	ninistrator	DVR Disconnected	2008-08-13 오전 9:45:29	MAC000A2F204359	
27 Adm 28 Adm 29 Adm	ninistrator	DVR Disconnected	2008-08-13 오전 9:45:29	MAC000A2E203CCC	
28 Adm 29 Adm	ninistrator	DVR Disconnected	2008-08-13 979 9:45:29	MAC000A2E001122	
29 Adm	ninistrator	Lon-Out	2008-08-13 9.7 9:51:55		
	ninistrator	Lon-In	2008-08-13 오전 9:52:05		
30 Adm	ninistrator	DVR Disconnected	2008-08-13 오전 9:52:17	MAC000A2F200000	
31 Adm	ninistrator	Log-Out	2008-08-13 97 10:15:15		
32 Adm	ninistrator	Log-In	2008-08-13 오전 10:23:33		
33 Adm	ninistrator	DVR Disconnected	2008-08-13 97 10:23:43	MAC000A2E20829E	
34 Adm	ninistrator	Log-Out	2008-08-13 오전 11:05:03		
35 Adm	ninistrator	Log-In	2008-08-13 97 11:12:35		
36 Adm	ninistrator	DVR Disconnected	2008-08-13 97 11:12:47	MACOODA2E20829E	
37 Adm	ninistrator	DVR Disconnected	2008-08-13 97 11:12:47	MAC000A2F001122	
20 Adv		DUD Disconnected	2000 00 12 0 7 11.12.47	MAC000A2E001020	
<					>

Log information window will be displayed like the left picture.

You can see who and when has logged in or logged out the CMS and what DVR has been connected.

5.3. DVR

5.3.1. DVR Menu

The CMS can change the menu settings on the DVR remotely. The features and settings are identical to that of the DVR menu. DVR menu can be different per model. The DVR menu display can be delayed according to PC specifications.



Click on "DVR" and then click on "DVR Menu" to enter the DVR menu setup.

NOTE: Only administrator can enter the DVR menu.

🕕 Dvr Env						
	REEN RECORD	EVENT	SYSTEM	LINK		
1	2 3	4	5	6		
011			ON	~		
IMA	AGE SIZE		360x240			
RE	CORD FRAME		240	*		
EVI	ENT		OFF	*		
PRI	E RECORD TIME		5 🚖			
PO:	ST RECORD TIME		10 🚖			
IM4			FINE	~		
AU	MOTE CONTROL II	n		×		
		5				
7	8		9		10	11
			Ű			
Read From File	Save To File	Lo	ad From DVF	R Upda	te to DVR	Close

- 1. QUICK SETUP: Refer to the chapter 2.3.1.1.1.
- 2. SCREEN SETUP: Refer to the chapter 2.3.1.1.2.
- 3. RECORD SETUP: Refer to the chapter 2.3.1.1.3.
- 4. EVENT SETUP: Refer to the chapter 2.3.1.1.4.
- 5. SYSTEM SETUP: Refer to the chapter 2.3.1.1.5.
- 6. LINK: Refer to the chapter 2.3.1.1.6.
- 7. READ FROM FILE: Load DVR settings from a DVR setup file.
- 8. SAVE TO FILE: Save DVR settings to a DVR setup file.
- 9. LOAD FROM DVR: Load current DVR settings.
- 10. UPDATE TO DVR: Upload changed settings to DVR.
- 11. CLOSE: Close DVR Setup menu.

5.3.1.1 Quick Setup

Select a desired value of each item.

🚹 Dvr Env				×
QUICK SETUP SCRE	EN RECORD EVEN	T SYSTEM LINK	1	
QUICK	SETUP	ON	*	
IMAGE	SIZE	360x240	*	
RECO	RD FRAME	240	*	
EVEN	Т	OFF	*	
PRE F	ECORD TIME	5 🚖		
POST	RECORD TIME	10 🜲		
IMAGE	QUALITY	FINE	*	
AUDIO	RECORD	OFF	*	
REMO	TE CONTROL ID	ALL	*	
Read From File	Save To File	Load From DVR	Update to DVR	Close

- a. Quick Setup: on / off
- b. Image Size: 360 x 240 / 720 x 240 / 720 x 480
- c. Record Frame: depending on image size
- Event: off, all, alarm, v-loss, motion, alarm & loss, alarm & motion, loss & motion
- e. Pre Record Time: 0 through 5 seconds.
- f. Post Record Time: 0 through 60 seconds
- g. Image Quality: 3 or 4 levels
- h. Audio Record: on / off
- Remote Control ID: all, 11 ~ 14, 21 ~ 24, 31 ~ 34 and 41 ~ 44.

5.3.1.2 Screen

5.3.1.2.1

Dvr Env QUICK SETUP SCREEN RECORD EVENT SYSTEM LINK AUTO SEQUENCE DISPLAY TITLE MULTI SCREEN COVERT SPOT CAMERA [AUTO - SINGLE] [AUTO · SPLIT] CH 1 3 🛫 CH 9 0 🛫 QUAD - A 3 🚖 CH 2 3 🔹 CH 10 0 🛫 3 🜲 QUAD - B QUAD - C 3 🚖 CH 3 3 \$ CH 11 0 \$ CH 4 3 🔹 CH 12 0 🛫 QUAD - D 3 🚖 CH 5 3 🗢 CH 13 0 🛫 QUAD - E 3 💠 CH 6 3 🜩 CH 14 0 🜩 SIX 3 🔹 CH 7 3 🛨 CH 15 0 🗲 SEVEN CH 8 3 🔹 CH 16 0 🛫 EIGHT 3 🜲 NINE - B \$ VIDEO LOSS SKIP 3 🚖 TEN ADD AUTO SINGLE THIRTEEN 3 文 Read From File Save To File Load From DVR Update to DVR Close

Auto Sequence

- a. Auto-Single: select the single channel dwell time.
- b. Auto-Split: select the multi channel dwell time.
- c. Video Loss Skip: check / uncheck.
- d. Add Auto Single: check / uncheck.

5.3.1.2.2 Display



HDD Free Space: on / off.

- b. HDD Free Space Mode: percent / gigabyte.
- c. Record Status: on / off.
- d. Clock Display: on / off.
- e. Date & Time Mode: YY/MM/DD, MM/DD/YY, DD/MM/YY.
- f. Title Display: on / off.
- g. Title Mode: text / bitmap.
- h. Border Color: white / black.
- i. Remote Control ID: on / off.
 - Spot Title Display: on / off.

5.3.1.2.3 Title



a. Channel Title (text mode)

Enter up to eight alphanumeric characters for channel titles.

b. Clear

Clear the bitmap drawing.

c. Move

Move the bitmap drawing in the grids.

d. Font

Select the font for bitmap conversion.

e. Download

Download the bitmap to the DVR.

f. Make Bitmap

Enter the title to be converted into bitmap.

g. Bitmap Grid

The title can be drawn here.

5.3.1.2.4 Multi-screen



Customize the channels to be displayed in 4E, 6, 7, 9B, 10 and 13 channel view modes.

5.3.1.2.5 Covert



- a. Channels 1 through 16: on / off
- Select: live, play, network, LV & PB, LV &
 NW, PB & NW, LV & PB & NW
- c. Title Display: on / off

5.3.1.2.6 Spot

🕕 Dvr Env				
QUICK SETUP SCREE	N RECORD EV ISPLAY TITLE E MULE JENCE TIME 3 MULTI O S SKIP O	ENT SYSTEM LINK MULTI SCREEN COV	ERT SPOT CAME	RA
Read From File	Save To File	Load From DVR	Update to DVR	Close

- a. Spot Mode: manual, event, sequence
- b. Spot Sequence Time: 1 to 60 seconds
- c. Add Spot Multi: Only some models can support this function
- d. Video Loss Skip: on / off

5.3.1.2.7 Camera

F	RIGHTNESS	CONTRAST	HUE	SATURATION
СН 1	50 ¢	50 1	50 1	50 1
CH 2	50 🜲	50 🜲	50 🜲	50 🜲
CH 3	50 🜲	50 🜲	50 🜲	50 🜲
CH 4	50 🜲	50 🜲	50 🜲	50 🗢
CH 5	50 🜲	50 🜲	50 🜲	50 🜲
CH 6	50 🜲	50 🜲	50 🜲	50 🜲
CH 7	50 🜲	50 🜲	50 🜲	50 🜲
CH 8	50 🜲	50 🜲	50 🜲	50 🜲
CH 9	50 🜲	50 🜲	50 🜲	50 🜲
CH 10	50 🜲	50 🜲	50 🜲	50 🗢
CH 11	50 🜲	50 🜲	50 🜲	50 🗢
CH 12	50 🚖	50 🜲	50 🜲	50 🜲
CH 13	50 🜲	50 🜲	50 🜲	50 🜲
CH 14	50 🜲	50 🗢	50 🜲	50 🗢
CH 15	50 🜲	50 🜲	50 🜲	50 🗢
CH 16	50 🜲	50 🚖	50 🗢	50 🚖

Adjust the brightness, the contrast, the hue and the saturation on each channel.

5.3.1.3 Record

5.3.1.3.1 Record

	ALL	0		3			6			9		-	2	un		15		1	8	_		21		24
MON	6	6	6	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
TUE	6	6	6	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WED	6	6	6	66	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
THU	6	6	6	66	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
FRI	6	6	6	66	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SAT	6	6	6	66	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SUN	6	6	6	66	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
ALL 0 3 6 9 12 15 18 21 24																								
REPEA'	r reci	ORD				ON			~				P	LAY	'M	OD	E			F	R/	ME		~
REPEA'	r RECI	ORD	AL	ARM		5%	9		~				B.	40	(UI	PM	00	E		0	DFF			~
RECOR	D LIMI	Т				RECORD LIMIT OFF																		

- a. Schedule Record: click on an hour block and then click Schedule Record on / off
- b. Monday through Sunday: select the record program
- c. Repeat Record: on / off
- d. Repeat Record Alarm: 5% through 10%, off
- e. Play Mode: frame, field
 - FRAME: for higher frame rate
 - FIELD: for lower frame rate
- f. Backup Mode: mirror, event, off.
- g. Record Limit: off / 1 day through 6 days /
 1 week through 4 weeks / 1 month through
 11 months / 1 year

5.3.1.3.2 Record program

Define the values for the record settings. Use the mouse scroll button to change the values, or the left/right buttons on the keyboard.

necono	necone	- Hanser L		IULIDAT				
	REC PROG	RAM 📴	•	RE	CORD	ING I	NTERVA	L 1 🚖 SEC
E	VENT REC	TYPE COM	PLEX 🔽	EVENT CH	1 ONL'I	~		
	IMAGE	NORMAL	ΕV	/ E N T	QUA	UTY	PRE/PO	ST EVENT
	SIZE	IPS	IPS	CH-SUM	N/	E	TIME	A/L/M
CH 1	720x240	3	3	37 MAX	S	S	5 10	
CH 2	720x240	3	3	37MAX	S	S	5 10	
CH 3	720x240	3	3	37MAX	S	S	5 10	
CH 4	720x240	3	3	37 MAX	S	S	5 10	
CH 5	720x240	3	3	3 / MAX	S	S	5 10	
CH 6	720x240	3	3	3 / MAX	S	S	5 10	
CH 7	720x240	3	3	37MAX	S	S	5 10	
CH 8	720x240	3	3	37 MAX	S	S	5 10	
CH 9	720x240	3	3	37MAX	S	S	5 10	
CH10	720x240	3	3	37MAX	S	S	5 10	
CH11	720x240	3	3	37 MAX	S	S	5 10	
CH12	720x240	3	3	3/MAX	S	S	5 10	
CH13	720x240	3	3	37MAX	S	S	5 10	
CH14	720x240	3	3	37MAX	S	S	5 10	
CH15	720x240	3	3	3/MAX	S	S	5 10	
CH16	720x240	3	3	37MAX	S	S	5 10	
				48 / MAX				

- a. Record Program: 0 to 9
- b. Event Record Type: single / complex, event channel only / all channels
- c. Image Size: select the recording image size
- d. Normal Record: select the recording rate for manual recording
- e. Event Record: select the recording rate for event recording
- f. Quality Normal: select the image quality for manual recording
- g. Quality Event: select the image quality for event recording
- h. Pre Record Time: select the pre-event

recording time

- i. Post Record Time: select the post-event recording time
- j. Event Alarm / Video Loss / Motion: check / uncheck event recording options.

5.3.1.3.3 Audio

A	UDIO 1	OFF	~	
A	UDIO 2	OFF	~	
A	UDIO 3	OFF	~	
A		OFF	~	
A		UFF	4	
,н ,		UFF	M	
,		110	×	
	0010 0		1941	

Select on or off for each channel to enable or disable the audio recording.

The audio channel is different per model.

5.3.1.3.4 Holiday

🚹 Dvr Env 🛛
QUICK SETUP SCREEN RECORD EVENT SYSTEM LINK RECORD RECORD PRGRAM AUDIO HOLDAY HOLDAY RECORD 0/0 0/0
Read From File Save To File Load From DVR Update to DVR Close

- a. Holiday Record: on / off
- b. Holiday Setup: enter the holidays

Note: Holidays to be set are recorded same as Sunday setting.

5.3.1.4 Event

Dvr Env	N RECORD EVE	ENT SYSTEM LINE		(
EVENT MOTION DE EVENT CHECK EVENT SCREEN EVENT MESSAG EVENT MESSAG EVENT BUZZEF	TECTION FACE D OFF MODE SCREI & OFF & RESET 5 OFF		INPUT RELAY OUT	TPUT

5.3.1.4.2 Motion detection

ICK SETUP	SCREEN	RECORD EVENT	SYSTEM LINK	NPUT RELAY OUTPUT
	Sensitivity		Sensitivity	1
CH 1	5 🜲	AREA SETUP	CH 9 5 🚖	AREA SETUP
CH 2	5 🜲	AREA SETUP	CH 10 5 🚖	AREA SETUP
CH 3	5 🔹	AREA SETUP	CH 11 5 🚖	AREA SETUP
CH 4	5 🜲	AREA SETUP	CH 12 5 🚖	AREA SETUP
CH 5	5 🜲	AREA SETUP	CH 13 5 🚖	AREA SETUP
CH 6	5 🜲	AREA SETUP	CH 14 5 🚖	AREA SETUP
CH 7	5 🜲	AREA SETUP	CH 15 5 🚖	AREA SETUP
CH 8	5 🜲	AREA SETUP	CH 16 5 🚖	AREA SETUP
	. [.	1	1	

- a. Event Check: on / off.
- b. Event Screen Mode: screen hold, event full, event multi, event full return, event multi return.
- c. Event Message: on / off.
- d. Event Message Reset: 1 to 30 seconds.
- e. Event Buzzer: on / off.

- a. Sensitivity: select the motion detection sensitivity.
- b. Area Setup: click on AREA SETUP to display the motion grid window.



Select the grid size.

Use the left mouse button to draw motion detection area and use the right mouse button to erase motion detection area.

Use the buttons at the bottom of the screen to set or clear motion detection all area of the screen.

5.3.1.4.3 Face detection



5.3.1.4.4 Sensor input

R	Dvr Env						×
ſ	QUICK SETUP	SCREEN RECO	RD EV	ENT SYS	EM LINK		
ſ			EACE	ETECTION	SENSOB INPLIT		
	EVENT MUT	UNDETECTION	FACEL	FIECTION		INCLAT COTFOT	۱۱
	CH 1	NOT USED	~	сн э	NOT USED	~	
	CH 2	NOT USED	~	CH 10	NOT USED	~	
	CH 3	NOT USED	~	CH 11	NOT USED	~	
	CH 4	NOT USED	~	CH 12	NOT USED	~	
	CH 5	NOT USED	~	CH 13	NOT USED	~	
	CH 6	NOT USED	~	CH 14	NOT USED	~	
	CH 7	NOT USED	~	CH 15	NOT USED	~	
	CH 8	NOT USED	~	CH 16	NOT USED	~	
L							-
	Read From Fil	le Save To	File	Load Fro	om DVR Upd	ate to DVR Close	

This menu is only for FDR(Facial detection and recognition DVR).

Select the circuit type for the sensor input.

	ALA	RM	LO	SS	мот	ION				ŀ	ALA	RМ	LO	SS	мо:	TION	
CH 1	1	~	2	*	3	~			CH S		1	~	2	~	3	~	
CH 2	1	~	2	*	3	~			CH 1	0	1	~	2	*	3	~	
СН З	1	~	2	*	3	~			CH 1	1	1	*	2	~	3	~	
CH 4	1	~	2	*	3	~			CH 1:	2	1	*	2	~	3	~	
CH 5	1	~	2	*	3	~			CH 1	3	1	*	2	*	3	~	
CH 6	1	~	2	*	3	~			CH 1	4	1	~	2	~	3	~	
CH 7	1	*	2	*	3	~			CH 1	5	1	~	2	*	3	~	
CH 8	1	*	2	*	3	~			CH 1	6	1	~	2	*	3	~	
RELAY RELAY RELAY	1 OL 2 OL 3 OL	JTPL JTPL JTPL	IT TI IT TI IT TI	ME ME ME		1 1 1	\$ \$	R	IELAY	4 :	SEL	ECT.		PO	WE	R(N.C	

- 5.3.1.4.5 Relay output
- a. Channel 1 through 16: select the relay output for the events.
- b. Relay 1 through 3 output time: 1 to 30 seconds.
- c. Relay 4 mode select: not used, HDD error, power(n,c), user, rec.

5.3.1.5 System

5.3.1.5.1 System

Dvr Env	\mathbf{X}
QUICK SETUP SCREEN RECORD EVENT SYSTEM LINK	
SYSTEM HDD CLOCK ADVANCED SETUP	
VIDEO STANDARD AUTO	
Read From File Save To File Load From DVR Update to DVR Close	

- a. Video Standard: PAL, NTSC, auto.
- b. Language: English, Korean, Japanese,
 Polish, Spanish, Russian, Chinese,
 Taiwanese, French, Turkish, German, Italian
 and Portuguese.
- c. Remote Control ID: All, 11 through 14, 21 through 24, 31 through 34 and 41 through 44.
- d. Key Echo: on / off.

5.3.1.5.2 HDD

🔁 Dvr Env						×
QUICK SETUP SCREE	N RECORD EV	ENT	YSTEM LI	NK		
SYSTEM HDD CL	DCK ADVANCED	SETUR	1			
[HDD CONFIC	GURATION]					
HDD	MODE					
REMOVABLE	REC	~				
FIXED · 01	REC	~				
FIXED · 02	REC	~				
FIXED · 03	REC	~				
FIXED · 04	REC	~				
EVTERNAL						
EXT BAY 1	EXT BAY 2 EXT	BAY 3	EXT BAY 4			
EXT - 00	REC	~	EXT · 05	REC	~	
EXT - 01	REC	~	EXT · 06	REC	~	
EXT - 02	REC	~	EXT · 07	REC	~	
EXT - 03	REC	~	EXT · 08	REC	~	
EXT - 04	REC	~	EXT • 09	REC	~	
		_				
1	1			í.	ſ	
Read From File	Save To File	Loa	d From DVR	Update to	DVR	Close

Select the recording mode for the HDD.

- REC: for normal recording
- BACKUP: for event backup or mirroring backup

5.3.1.5.3 Clock

L Dvr Env	
QUICK SETUP SCREEN RECORD EVENT SYSTEM LI	1K
SYSTEM HDD CLOCK ADVANCED SETUP	
(DATESTIME)	
[TIME ADJUST]	
INTERNET TIME ADJUST	
SELECT TIME SERVER	
SELECT TIME ZONE	
DAYLIGHT SAVING TIME OFF	
START TIME MAR 💟 2ND 💟 SUN	✓ 2AM
END TIME NOV 💌 1ST 💌 SUN	✓ 2AM
	1 1 1
Read From File Save To File Load From DVR	Update to DVR Close

- a. Date & Time: the date and time is displayed here cannot be modified.
- b. Internet Time Server: on / off.
- c. Select Time Server: enter the time server's IP address.
- d. Select Time Zone: select the DVR's local time zone.
- e. Day Light Savings Time: on / off.
- f. Start Time: select the month, week, day and time.
- g. End Time: select the month, week, day and time.

5.3.1.5.4 Advanced setup

Dvr Env								1
QUICK SETUP SCREEN RECORD	EVEN	IT S	YSTEM	LIN	IK			
SYSTEM HDD CLOCK ADVA	NCED S	ETUF						
PASSWORD CHECK	OF	F	~					
NET COVERT AUTHORITY	OF	F	~					
	NE	W PA	SSWOF	D	RE -	TYPE		
ADMIN PASSWORD								
USER1 PASSWORD								
USER2 PASSWORD								
USER3 PASSWORD								
USER4 PASSWORD								
AUTHORITY	USEF	31	USER	2	USE	R3	USEF	R4
REC	OFF	~	OFF	~	OFF	~	OFF	~
SEARCH&PLAY	OFF	~	OFF	~	OFF	~	OFF	~
COPY	OFF	~	OFF	~	OFF	~	OFF	~
LIVE AUDIO	OFF	~	OFF	~	OFF	~	OFF	~
DVR SETUP	OFF	~	OFF	~	OFF	~	OFF	~
DVR STATUS	OFF	~	OFF	~	OFF	~	OFF	~
PTZ CONTROL	OFF	~	OFF	~	OFF	~	OFF	~
NETWORK COVERT	OFF	~	OFF	~	OFF	~	OFF	~
POWER OFF	OFF	~	OFF	~	OFF	~	OFF	~
1	1	_	_	_	1	_	1	
Read From File Save To Fi	le	Loa	d From D	VR	Upo	late to	DVR	Close

a. Password Check: on / off

 Passwords: define the DVR access passwords for all users.

c. Authority: define DVR access authority for users 1 through 4.

5.3.1.6 Link

5.3.1.6.1 Network

IP ADDRESS 211 174 251 216 SUBNET MASK 255 255 255 128 GATEWAY 211 174 251 129 DNS 203 239 130 1 PORT 5400 ≤ 2 2 DYNAMIC IP SERVER 211.174.251.155 2 2 BACKUP IP SERVER 211.174.251.160 NETWORK FRAME STILL ✓	128 129 1					
SUBNET MASK 235 235 235 129 GATEWAY 211 .174 .251 .129 DNS 203 .239 .130 .1 PORT 5400 🛫	129					
DATEWAY 211 114 201 123 DNS 203 233 130 1 PORT 5400 2 11.174 251.155 DYNAMIC IP SERVER 211.174 251.160 1 NETWORK FRAME STILL V V	1					
UNS 233 130 1 PORT 5400 ➡ DYNAMIC IP SERVER 211.174.251.155 BACKUP IP SERVER 211.174.251.160 NETWORK FRAME STILL						
PORT 5400 € DYNAMIC IP SERVER 211.174.251.155 BACKUP IP SERVER 211.174.251.160 NETWORK FRAME STILL ♥						
DYNAMIC IP SERVER 211.174.251.155 BACKUP IP SERVER 211.174.251.160 NETWORK FRAME STILL						
BACKUP IP SERVER 211.174.251.160 NETWORK FRAME STILL	211.174.251.155					
NETWORK FRAME STILL						
DVR LOOATION						
DVR LOCATION						

a. DHCP: on / off.

b. IP Address: enter the IP address.

- c. Subnet Mask: enter the subnet mask.
- d. Gateway: enter the gateway.
- e. DNS: enter the DNS address.
- f. Port: define port number.
- g. Dynamic IP Server: enter the Dynamic IP Server address.
- h. Backup IP Server: enter backup IP Server address.
- i. DVR NAME: enter the DVR name for CMS.
- DVR LOCATION: enter the DVR location for CMS.

5.3.1.6.2 RS-232C

L Dvr Env
QUICK SETUP SCREEN RECORD EVENT SYSTEM LINK
NETWORK RS232C RS485 PTZ E-MAIL
BAUD RATE 115200 V DATA BIT 8 V PARITY BIT NONE V STOP BIT 1 V
Read From File Save To File Load From DVR Update to DVR Close

- a. Baud Rate: select the communication speed
- b. Data Bit: select the data bit.
- c. Parity Bit: select the parity bit.
- d. Stop Bit: select the stop bit.

5.3.1.6.3 RS-485



- a. System ID: select the system ID.
- b. Output Mode: select the output mode.
- c. Baud Rate: select the communication speed.
- d. Data Bit: select the data bit.
- e. Parity Bit: select the parity bit.
- f. Stop Bit: select the stop bit.

5.3.1.6.4 PTZ

QUICK SETUP	SCREEN RECOR	D EVE	NT SYSTEM	LINK		
	MODEL		SPEED		ID	
CH 1	NONE	~	9600	~	1 💠	
CH 2	NONE	~	9600	~	1 单	
CH 3	NONE	~	9600	~	1 单	
CH 4	NONE	~	9600	~	1 🜲	
CH 5	NONE	~	9600	~	1 🜲	
CH 6	NONE	~	9600	~	1 单	
CH 7	NONE	~	9600	~	1 单	
CH 8	NONE	~	9600	~	1 单	
CH 9	NONE	~	9600	~	1 单	
CH 10	NONE	~	9600	~	1 单	
CH 11	NONE	~	9600	~	1 单	
CH 12	NONE	~	9600	~	1 单	
CH 13	NONE	~	9600	~	1 韋	
CH 14	NONE	~	9600	~	1 单	
CH 15	NONE	~	9600	~	1 单	
CH 16	NONE	~	9600	~	1 单	
Deed See 5		-	Land Free DV	.		Chur

- a. Model: select the PTZ camera model.
- b. Speed: select the communication speed.
- c. ID: select the PTZ camera address.

5.3.1.6.5 E-mail

Dvr Env					
QUICK SETUP SCREEN REC	ORD EV	ENT SYSTE	M LINK		
NETWORK BS232C BS48	5 PTZ	E-MAIL			
NETWORK 132320 11340.	112				
Send Email OF	F 🗸				
SMTP Server					
DVR Email Address					
[OPTIONAL]					
User Id					
Password					
Email Address 1				ALL	~
Email Address 2				ALL	~
Email Address 3				ALL	~
Email Address 4				ALL	~
Email Address 5				ALL	~
Email Address 6				ALL	~
Email Address 7				ALL	~
Email Address 8				ALL	~
Email Address 9				ALL	~
Email Address 10				ALL	~
1	1				
Read From File Save	To File	Load From	DVR	Update to DVR	Close

- a. Send e-mail: on / off.
- b. SMTP Server: enter the SMTP server address.
- c. DVR e-mail Address: enter the DVR's e-mail address.
- d. User ID: enter the DVR's user name for the e-mail account.
- e. Password: enter the DVR's password for the e-mail account.
- f. E-mail addresses 1 through 10: enter the email addresses for e-mail notification.

5.3.2. DVR Copy

The data on the DVR can be downloaded onto the PC using the COPY function. The data can also be backed up directly onto available backup media on the DVR.



Click on "DVR" and then click on "DVR Copy" to enter the DVR copy menu.

NOTE: Only administrator can enter the DVR copy menu.



a. Available data

Displays available data to be downloaded.

b. Hard disk drive selection

Select the hard disk drive to download from. If unknown, leave the selection on NORMAL.

c. Copy time

Define the interval of the file to be downloaded. Available time interval is 1 through 60 minutes. As the value is adjusted, the COPY END value will be automatically adjusted.

d. Copy start

Enter the starting time of the data to be downloaded.

e. Copy end

Enter the end time of the data to be downloaded.

f. Password

Encrypt the downloaded copy with a password. Up to 8 numbers can be entered for the password.

g. Channel

Select the channels to be downloaded.

h. File name

Input a desired name of the file to be copied.

i. Copy

Click on copy after all parameters for downloading.

j. Cancel

Exit from the COPY window.

5.3.3. Search & Play

5.3.3.1. Time Search

Time search provides an overview of the recorded data from the earliest available recording to the latest available recording.

Click on "DVR" and highlight "Search & Play" and then click on "Time Search" or click the "Time Search" icon.





And the "Time Search" window will be displayed like the above picture.

- a. Click the "v" button and select a desired DVR.
- b. The start and the end of the recorded data will be displayed.
- c. Select the hard disk drive for the remote playback. If unknown, leave the selection to Normal.
- d. Select the channel for playback.
- e. Select the year, month, day and time for the playback, or slide the date bar and the time bar to the desired date and time. The Search time format is yyy/mm/dd, hr:min:sec.
- f. Click on "Play" to begin the remote playback. And the "Playback" window like the below picture will be displayed.

NOTE: Refer to Chapter 5.2.6 File Player for more information of playback window.

5.3.3.2. Calendar Search

Calendar search provides a quick overview of the year, month, day and hours of the day so that the data can be accessed relatively quickly.

Click on "DVR" and highlight "Search & Play" and then click on "Calendar Search" or click the "Calendar Search" icon.





🛞 Local Data Search - DVR 453630 📰 🗖 🔀										
		D¥R - ()00A2F2	204359						
OVR 45	3630						~			
2008 🗘 9 🗘 Play										
SUN	MON	TUE	WED	THU	FRI	SAT				
	1	2	з	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								
0 3	6	9	12	15	18	21 2	4			
							- 1			

And the "Calendar Search" window will be displayed like the left picture.

- a. Click the "v" button and select a desired DVR.
- b. Select the year and month and then click the date.

NOTE: Dates with recorded data will be highlighted in yellow.

			DVR - I	DOOA2F2	04359			
70	VR 45	3630						~
200	B	¢)	2		Pla	iy	_
	SUN	MON	TUE	WED	THU	FRI	SAT	
		1	2	з	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					
5	з	6	9	12	15	18	21	24

And you can see "Searching".

🛞 Lo	🕅 Local Data Search - DVR 453630 🔳 🗖 🔀											
		1	D¥R - (000A2F2	204359							
۲(OVR 45	3630						~				
200	2008 🗘 9 🗘 Play											
	SUN	MON	TUE	WED	THU	FRI	SAT					
		1	2	з	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									
0	з	6	9	12	15	18	21	24				
> S	earch	Time :	20/0	8/09/1	02 14:	00:00						

Select the hour block and then click on "Play" to begin the remote playback.

NOTE: Hours with recorded data will be highlighted in yellow.

NOTE: Refer to Chapter 5.2.6 File Player for more information of playback window.

5.3.3.3. DVR Log Search

Click the "Log Search" tab to display the Log Search window. The log file keeps a list of the important events that happened to the DVR. And you can search and play log file with the CMS. Click on "DVR" and highlight "Search & Play" and then click on "DVR Log Search" or click the "DVR Log Search" icon.





۵ 🌒	VR Log Search		
DVR 648787-000A2F20053B			
	DVR 648787		~
No	DateTime		^
1	2008/09/11 14:29:40	NET ADMIN DISCONNECT	_
2	2008/09/11 14:21:05	NET ADMIN CONNECT	
3	2008/09/11 14:20:16	NET ADMIN DISCONNECT	
4	2008/09/11 14:18:34	NET ADMIN CONNECT	
5	2008/09/01 10:50:49	RECORD START	
6	2008/09/01 10:50:49	POWER ON	
7	2008/09/01 10:50:38	POWER FAIL	
8	2008/08/29 11:31:17	NET USER DISCONNECT	
9	2008/08/29 11:31:02	NET USER CONNECT	
10	2008/08/27 15:38:12	NET USER DISCONNECT	
11	2008/08/27 15:37:29	NET USER CONNECT	
12	2008/08/25 15:43:22	RECORD START	
13	2008/08/25 15:43:22	POWER ON	
14	2008/08/25 15:43:11	POWER FAIL	
1-	0000/00/10 15-41-40	NET ADAMA DICCOMMENT	×

Select a desired DVR and you can see the log file list of DVR.

If you double-click the log file, the playback window will be displayed.

NOTE: Refer to Chapter 5.2.6 File Player for more information of playback window.

The following items are what the DVR keeps in its log file.

- Power on / off
- Power loss / DVR restart
- Changes in the menu
- DVR initialization
- HDD initialization
- Network connection / disconnection

5.3.4. Record Schedule

You can record the live image by event and by schedule.

Click a desired camera in "GROUP MONITOR". And click on "DVR" and then click on "Record Schedule" or click the "Record Schedule" icon.





And you can see the "Record Schedule" setup window like the above picture.

a. If you check the "Record" of "Event Record" and select a recording period in "Event Record Time", the CMS will save the live image in your PC during the set time when an event happened.

- b. If you check the "Record" of "Schedule Record" and click desired times per day of the week, the live image of the selected time will be saved in your PC according to the set schedule. The selected time will be highlighted in red.
- c. And then click the "Save" button to save the setting. If you want to cancel, click the "Cancel" button.

The default folder to be saved files, C\Program Files\DVR\CMS\CmsData\Administrator\MAC address of the DVR\Record.

NOTE: Refer to Chapter 5.10 Record Start/Stop icon for more information.

5.4. Tools

5.4.1. Option

DVR option defines the administrative options for the CMS, such as the IP address of the Dynamic IP Server, the Warning sound and the layout Language of CMS.



Click on "Tools" and then click on "Option" to open the "Option" window.

	Option 🛛
	-[Dynamic IP Server]
a —	Main Server 211.174.251.155
	Backup Server 211.174.251.160
	-[Warning Sound]
b ——	□ Event C:\#Program
	-[Languages]
с —	Select Language English
	Ok Close

a. Dynamic IP Server

Modify the IP address for the Dynamic IP Servers as needed. The default IP addresses are:

- Primary Server: 211.174.251.155
- Secondary Server: 211.174.251.160

b. Warning Sound

You can create or change a warning sound when an event happened or the DVR is disconnected.

[Warning Sound]		
Event	C:₩Program	 >
DVR Disconnect	C:₩Program	 >

If you want to set a warning sound, check "Event", "DVR Disconnect" or both of them and click the "..." button to be indicated by the red arrow on the left picture.

Click the ">" button to play the selected sound.



Select a desired sound file(wave file) and then click the "Open" button to be indicated by the red arrow on the left picture.

C. Languages

The CMS can support another languages as well as English. Select a desired language.

5.5. Window

5.5.1. Dock All Windows

Click on "Window" and then click on "Dock All Windows" to dock the all open windows to the main



window like the left picture.

5.5.2. Undock All Windows

Click on "Window" and then click on "Undock All Windows"





And all open windows will be displayed separately so you can display each window to different monitor.

It's useful in case of managing with many monitors.

5.6. Help

5.6.1. About

You can see the version and the released date of CMS.



Click on "Help" and then click on "About".

About CMS		
	Product Informati CM5 Version 1.0.6.22 Release Date : 20	on 109/03/12
Windows XP (Build 2 Memory Available to	600: Service Pack (3) 1047340 KB
		ок

And the "About CMS" window will be displayed like the left picture.

5.7. Live Monitor icon

NOTE: Refer to Chapter 5.2.2 Live Screen and Live Monitor.

5.8. Device Manager icon

NOTE: Refer to Chapter 5.2.1 Device Manager.

5.9. Add Item icon for Group Monitor

You can make manage the cameras by group. If you drag and drop a camera or a DVR from "Device Manager", the selected camera or DVR will be listed in "GROUP MONITOR".



Click the "Add Item" icon to add a new list.

5.10. Edit Item icon for Group Monitor

Click an editing item and then click the "Edit Item" icon.



Name	New Group(0)	1	
		Apply	Cancel
	_	_	_

And the editing window will be displayed below GROUP MONITOR window. Input a desired name and click the "Apply" button. If you want to close the editing window without revising, click the "Cancel" button.

NOTE: You cannot use the duplicated name in GROUP list.

5.11. Del Item icon for Group Monitor

Click the deleting item and then click the "Del Item" icon and the selected item and sub-items will



be deleted in "GROUP MONITOR".

5.12. Record Start/Stop icon

You can save the live files of each camera in your PC.



Click a desired camera in GROUP MONITOR and then click the "Record Start/Stop" icon.

NOTE: Refer to Chapter 5.3.4 Record Schedule for event or schedule recording of live image.



And you can see "Recording" next to the selected camera.

Click the "Record Start/Stop" icon again to stop recording.

And the live image file of the camera will be saved in your PC. The default folder to be saved files is

C\Program Files\DVR\CMS\CmsData\Administrator\MAC address of the DVR\Record.

DVR - 000A2F204359
CONSTRUCTOR CONSTRUCT

You can search and play the saved live files through Record Data of Local Data Viewer.

NOTE: Refer to Chapter 5.2.5.3 Record Data for more information.

5.13. Record Schedule icon

NOTE: Refer to Chapter 5.3.4 Record Schedule.

5.14. Time Search icon

NOTE: Refer to Chapter 5.3.3.1 Time Search.

5.15. Calendar Search icon

NOTE: Refer to Chapter 5.3.3.2 Calendar Search.