

This document contains preliminary information and subject to change without notice

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1.1 CMS Overview

CMS supports remote live viewing, remote search, backup, camera control and other functions, linking multiple DVRs.

1.2 CMS Recommended Specification

CPU	Intel Quad Core Q9000 Series or higher
	3GHZ
Memory	3GB
VGA	.ATI Radeon Series 512MB
	.Nvidia Geforce Series 512M
Disk space	20GB or higher
OS	Window XP, Window Vista, Window7(32bit)
Others	Direct-X 9 or Higher

Before installing the program, check the PC specifications.

1.3 CMS Installation

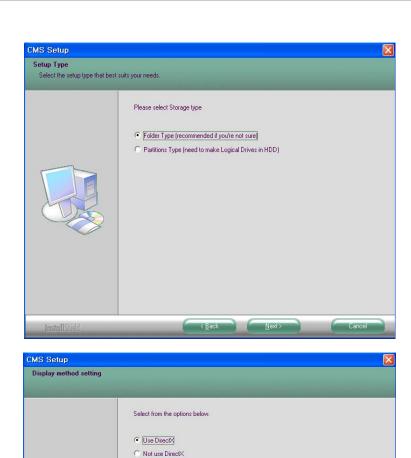
- 2) click YES or NEXT following Installation Wizard
- 3) **CMS** Icon will appear on Desktop
- 4) double click the CMS icon

* For your reference, Default ID and PW are admin. Click OK

X
admin
OK Cancel

*CMS Setup Procedure

- Storage Type Setting for Local Storage You can select a folder or a drive type.
 - Folder Type
 - Partitions Type

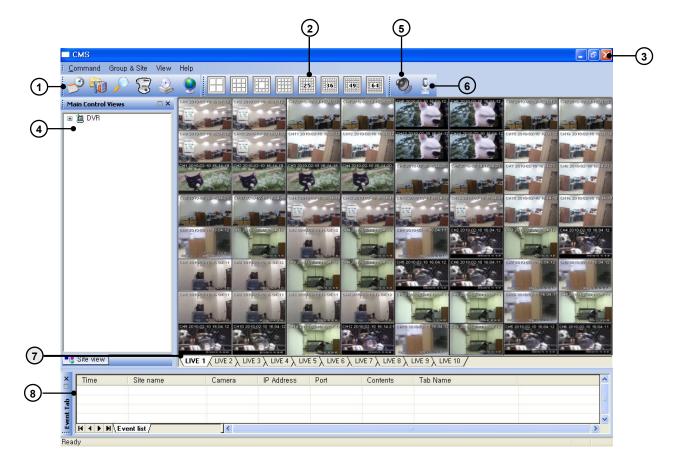


- 2. Use Direct-X Setting
 - Use Direct-X
 - For Using Direct Draw
 - Not use Direct-X
 - For Using GDI or No Direct Draw



- 3. Windows Media Component Setup
 - This is codec for saving Data with AVI file.
 - For Window Media Player

1.4 CMS Window



- 1 Menu Event Search, CMS Setup, CMS Local Search, PTZ Control, Local Data Backup, E-Map
- 2 Screen Division choose one of various Screen Division
- 3 Exit click to Logoff, close Program
- Group / Site add, edit Group or Site
 Double Click the Site Name for Connection
 Right Click at the Site Name for Setup, Search, Edit/Delete Site, Connection/Disconnection Site
 Audio– Turn on/off Audio. It can listen the audio of the connected DVR
- 6 Microphone turn on/off Microphone. It can send a voice from CMS to DVR
- 7 DVR Site Sheet Each Sheet shows Each Site of DVR connected
- 8 Event List Display Event Status coming from DVR (It needs to set Event check in CMS Option Setup)

1.5 CMS Start

CMS

GROUP Add

Right Click at Group/Site Bar. Select Add Group Each **GROUP** can has several SITE of DVR

<mark>∶ </mark>				
🥩 👘 🔎 🕄 🐇	Add			×
Main Control Views	Group Name	DVR Site		
Add Group			Close	Apply

■ SITE Add

Right Click at the GROUP name and select Add SITE



- Make SITE NAME for your reference.

- If you want to use DDNS Function, Click "USE DDNS" and input your DDNS ID. Then It is displayed Site address and Port.
- Select Model Number of DVR if the unit is not using DDNS service, input its Site Address.
- Input User ID and Password same as that of DVR
- Input PORT number

In case the DVR is using a Router, users need to set a Port forwarding in this Router.

- Click the Camera you want to connect and write its information for your reference

- Click APPLY and Close

Site Nar	ne	DVR1		
Use DDNS				
		8		DDNS Connect
Model T	уре	DST-16CH		 Image: A start of the start of
Site Add	Iress	192.168.0.2	2	
User ID		DVR		Save User ID
Passwo	ord			Save Password
Port		80		
Camera li	nformatio	1		
Jse	Camera		Use	Camera name
1 🗹	camera	1	C 9 🗹	0
2 🗹	camera	2	C10 🗹	
3 🔽	camera	3	C11 🗹	
4 🗹	camera	4	C12 🔽	
5 🗹			C13 🔽	
6 🗹			C14 🗹	2
7 🔽			C15 🔽	
8 🗹			C16 🗹	
Sel	ect All	Deselect All	1~16	17~32 33~48 49~64

Connect to the SITE

DOUBLE CLICK the SITE NAME or right click and select "CONNECT Site"



Activate SITE Menu

- * Right Click at the SITE name
- * Right Click at Camera Window during Monitoring

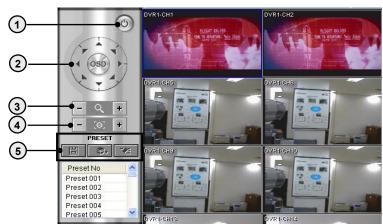


1.6 CMS MENU

1.6.1 PTZ Control



control remote PTZ Camera which is connected to the DVR



- 1 Exit go back to Main Menu
- 2 PTZ Control Pan / Tilt / Zoom Control
- 3 Zoom In/Out Zoom Out (), Zoom In (+)
- 4 Focus Control Adjust the focus if necessary
- 5 Preset Preset Save, Perform, Delete

1.6.2 Event List Search

	1990
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1.5	

Event Data Search coming from DVR

You need to activate Event List View setting in CMS Option Setup

Selected 2010/05		Event list search fill Event type Time CH [DVR,NVR,IP] Port Tab Name	All 00:00:00	• ~ 24 • ~ _	•	Event list search filt Time Channel Port	er - Sort Site name IP Address Tab Name
Event data I Time	ist Site name	Channel	IP Address	Port	Tab Name	Contents	

1 Event List Search - you can select Event Type which you want to search

2 Event List - It shows Events with its Time and Site name, Channel, IP address, Port information

1.6.3 CMS Setup



* For CMS setup, right click Mouse at CMS Setup Icon

*CMS Setup Menu

- ① User Registration
- ② CMS Option Setup
- ③ CMS log viewer
- 4 CMS Record Setup
- ⑤ CMS Save path Setup
CMS Disk Management(CMS Storage type Folder type)(CMS Storage type Partitions type)

USER Registration

This is the User Registration Screen. You can register the desired account.

DCMS Setup					CMS Control user regi	stration	
Setup menu	Setup reg				User Information		
User Registration	Use					-	
CMS Option setup	NO	User group Administrators	User D. admin	Memo	UserID		
CMS log viewer	2	Users	default		Password		
CMS Record setup					Confirm		
	-				Memo		
CMS Save path setup						(
					Auto logoff	Notuse	▼
					User group		
					Administr	ators	O Users
					Permission		
					CMS setup		Remote setup
					CMS search		Remote search
					CMS quit		Remote disconnect
					Group / Site	registration	✓ Pan / Tilt
					CMS Event s	earch	CMS Backup
					CMS e-Map		Display position change
					and the second sec		
				Add Edit Delete	CMS e-Ma	psetup	Display mode change
				Close			Apply Close

- 1 Add It can register the desired account.
- 2 Edit It can change the desired account information.
- 3 Delete It can erase the desired account.

CMS Option Setup

Setup menu	Setup registration						
User Registration	CMS Display method setup						
CMS Option setup	Use DirectX						
CMS log viewer	* You need to restart CMS program after changing DirectX use option.						
CMS Record setup	CMS Standard option setup	Log / Event [C:\Program Files\CMS\LOG]					
CMS Save path setup	Date/Time Site name	CMS log write CMS event log write Event list view setting					
<u>0</u> 0	Camera ID Camera name	View motion event					
	V Channer	View alarm event					

- 1 CMS Display Method Setup If it can't show Live Screen with Using direct-X setup, Please uncheck this function and restart CMS Program.
- 2 CMS Standard Option Setup It can set the displayed channel information in Live screen.
- 3 Log /Event System Log CMS Log, CMS Event log. You can show it in CMS log viewer menu.
 - Event List View Motion event, Alarm event. It is displayed in Event Tab of Live Screen.

CMS Log Viewer

It display all CMS log lists. You can search the log list of the desired date.

Setup menu	Setup registration			
User Registration	CMS Log list			CMS Log date
	Time	Log content	*	YEAR 4 2010 >
CMS Option setup	09:48:36	Remote setup open. [ID:admin]		MONTH September
	09:49:03	CMS setup open. [ID:admin]		Sun Mon Tue We Thu Fri Sat
CMS log viewer	09:49:09	CMS setup close. [ID:admin]		
CMS Record setup	09:49:45	Site[DH16480] - Connect site. [ID:admin]		
CMS Record setup	09:49:46	Auto data delete [201009100948N.dat].		5 <u>6 7 8 9</u> <u>10</u> 11
CMS Save path setup	09:49:46	Auto data delete [201009100948N.idx].		12 13 14 15 16 17 18
CMS Save pain setup	09:49:55	Site[DH16480] - Disconnect successful. (ID:admin)		19 20 21 22 23 24 25
	09:50:13	Site[DH16480] - Update successful. [ID:admin]		26 27 28 29 30
	09:50:17	Site[DH16480] - Connect site. [ID:admin]		20 27 20 23 30
	09:50:27	Site[DH16480] - Connect site. [ID:admin]		
	09:50:59	Site[DH16480] - Update successful. [D:admin]		
	09:51:06	Site[DH16480] - Connect site. [ID:admin]		
	09:51:07	Auto data delete [201009100949N.dat].		
	09:51:07	Auto data delete [201009100949N.idx].		
	09:52:19	Site[DH16480] - Disconnect successful. [ID:admin]		CMS Log search
	09:52:33	Site[DH16480] - Update successful. [ID:admin]		Log search time select
	09:52:35	Site[DH16480] - Connect site. [ID:admin]		
	09:52:40	Site[DH16480] - Connect site. [ID:admin]		• ~ •
	09:52:48	Auto data delete [201009100951N.dat].		
	09:52:48	Auto data delete [201009100951N.idx].		Search
	09:54:24	Site[DH16480] - Update successful. [ID:admin]		
	09:54:28	Site[DH16480] - Connect site. [ID:admin]		
	09:57:34	Site[DH16480] - Connect site. [ID:admin]		
	09:58:20	Site[DH16480] - Connect site. [ID:admin]		Delete log date
	10:04:50	CMS quit. [ID:admin]		
	14:00:01	Start cms login. [ID:admin]		Delete
	14:05:10	CMS setup open. (ID:admin)		
	14:08:18	CMS setup close. [D:admin]		
	14:08:45	CMS setup open. [ID:admin]	-	
	<	m	+	

CMS Record Setup

This is CMS Record Setup Screen. You can set to record continuously the desired channel in Local PC.

User Registration	Group / Site list	CMSI	ocal record camera	setup list		
User Registration		СН	Address	Port	Cam(DVR,NVR,IP)/Site name	
CMS Option setup		the second second				
		01	192.168.0.2	7620	01/DST16480	
CMS log viewer		02	192.168.0.2 192.168.0.7	7620 7670	07 / DST16480 01 / DH16480	
		03	192.168.0.7			
CMS Record setup		04	192.168.0.7	7670	07 / DH16480 01 / DL8120	
		05	192.168.0.4	7640	07 / DL8120	E
CMS Save path setup						
		07	192.168.0.5	7650	01 / DL4120	
		08	192.168.0.5	7650	04/DL4120	
		09	211.192.162.106 211.192.162.106	7630 7630	01 / DST16120	
		10	218.17.199.49		07 / DST16120 01 / DM16480(c)	
				7620		
	Drag & Dro	p the d	esired C	ame	CST9120(c)	
		14	218.17.199.49	7650	07 / CST9120(c)	
	_	46	102 88.0.220	900	01/GH4240	
		16	192,168.0.220	900	04/GH4240	
		17				
		18				
		camera	doloto			
			uelete			
		21				
		22				
		23				
		24				
		25				
		26				
		27				-
	Site delete		Camera delete			

CMS Save path Setup

It is shown this menu when you select the folder type for CMS Storage Type. You can set the desired Save path and Cleanup day & capacity.

Setup menu	Setup registration		
User Registration	Save path setup		
CMS Option setup	Save path E: Max size 2	GB	
CMS log viewer	Max 3/26 2	00	
CMS Record setup	Cleanup job setup Cleanup minimum capacity	Capacity information [E:] Drive Total capacity	
CMS Save path setup	500 MB	▼ 0%	100%
	Cleanup Day is greater than the se 30 Days	100 %	
		Total space : 323339 Mi	Byte

- 2 Cleanup job Setup It can change the desired cleanup Day and erasable minimum Size.
- 3 Capacity information It display the HDD Capacity of the save path folder.

CMS Disk Management

It is shown this menu when you select the Partitions type for CMS Storage Type. You can set the desired drives in disk management menu.

Setup menu	Setup registration	
Setup menu User Registration CMS Option setup CMS log viewer CMS Record setup CMS Disk management	Setup registration Disk management Installed drives list Name Type C: Disk drive]	Drive status Type[Disk drive] 56732 MByte Free 45666 MByte Used
	Data drives list Name Type D: [Disk drive] D: [Disk drive] G: [Disk drive] H: [Disk drive] J: [Disk drive]	Drive volume : C1 Total space : 102398 MByte
	Data Drive	Free space : 56732 MByte

1.6.4 E-Map Setup



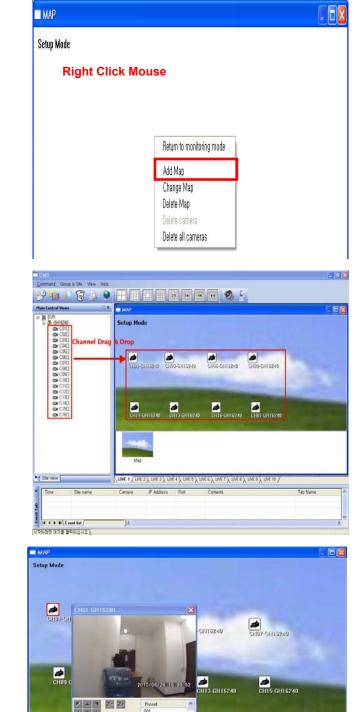
* For E-Map setup, right click Mouse at CMS Setup Icon. It can only register the BMP file format.

Right Click Mouse as right image.

Please go Setup mode.

After right clicking mouse, Add the desired map.

Default is no image. So you must add the image.



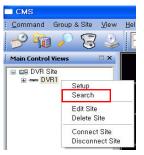
<How to register the channel to map image> In Setup Mode, Please drag &drop the desired channel from left Site view menu to right map.

After finishing Camera setting, Please escape the Setup mode.

If you double click the desired channel, you can show this channel.

1.7 CMS Search

It is different the search method according to the model Series.



* For Search, right click Mouse as left image

1.7.1 Search Method (1)

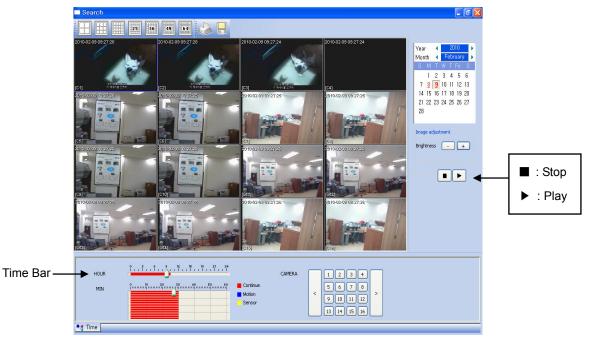
After selecting the desired date in Calendar, Please select the specific time with mouse in time bar.

DVR will playback the selected recording data.

TIME SEARCH	TIME SEARCH
2010 / 8 S M T W T F S 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 2021 22 23 24 25 26 27 28 29 30 31 - - 7 28	2010 / 6 (15) (00) (00) OK Cancel 29 30 31
[ESC] Close	[ESC] Close Close
■ DVR Remote Desktop	ICON Description Image: Constraint of the second
CH012 CH02 CH02 CH02 CH03 CH03 CH03 CH03 CH03 CH03 CH03 CH03	Image: Solution of the state of the stat
2010/04/14 13 26 55 2010/04/14 13 26 55 CH07	Image: Playback channel by channel with snap shot display Image: Pull screen display Image: Quad display
	9-channel display Zoom-in display

1.7.2 Search Method (2)

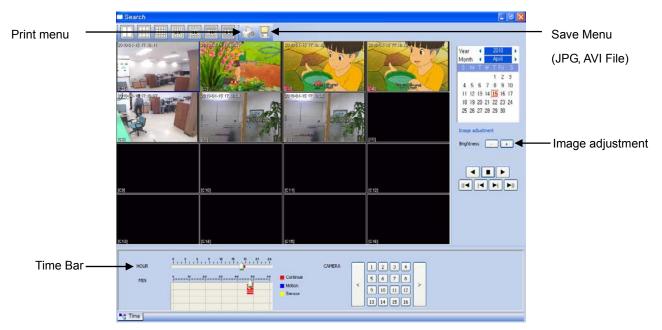
After selecting the desired date in Calendar, Please select the specific time with mouse in time bar.



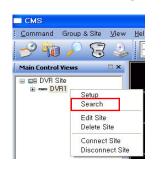
DVR will playback the selected recording data.

1.7.3 Local Search

It can search the record data which you selected in CMS record Setup Menu.



1.8 CMS Backup



It is different the Backup method according to the model Series.

* For , right click Mouse at CMS Setup Icon

1.8.1 Backup Method (1)

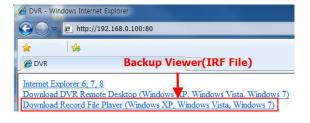
At first, Connect the search mode

You can backup the desired Data into PC.

The format of backup file is IRF file.

It can be played by a Backup viewer for IRF file.

Please download Backup-viewer via web connection.





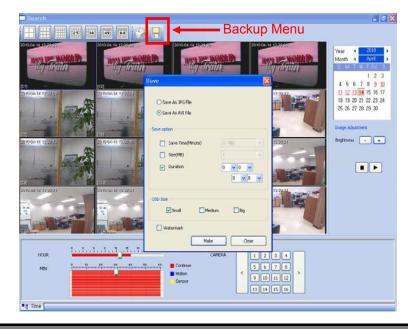
To:	2009/08/12 03:36:2
Device: Free Space: Required Space:	PC 0.00MB Refresh Calculate Start

ltem	Description
From	The start time of backup file
То	The end time of backup file
Device	Select PC as the backup device
Free Space	The available space in your backup device.
Refresh	Recalculate the available space of backup device
Required Space	Show the size of the backup file
Calculate	Calculate the size of backup file
Start	Start backup operation.

1.8.2 Backup Method (2)

You can backup the desired Data into PC.

After entering Search mode, Press the Backup Icon



1. Backup Method - JPG File, AVI File

4. Print	- You can print to add several channel images
3. OSD Size	- You can select small or Medium or Big
	Duration : User can select the desired time
	Size(MB) : 1~100 MB
Save option	- Save time : 0~30 min

1.8.3 Local Backup

* For Local Backup, right click Mouse at CMS Setup Icon

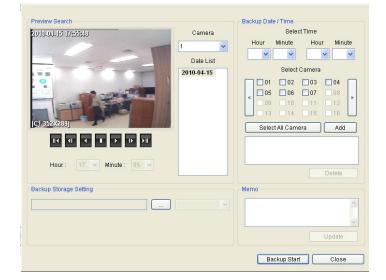
After Selecting the data of the desired Channel, Press Backup start Icon

It can be played by a Backup viewer

* Backup viewer Program

Please go C >>Programfiles>>CMS folder.

You can find the Backup Viewer file.



1.9 CMS Remote Setup

It is different the remote setup method according to the model Series.



* For Remote Setup, right click Mouse as left image

1.9.1 Setup Method (1)

It is same the setup menu of Real DVR.

Please refer to DVR Manual for the Detail Setting .

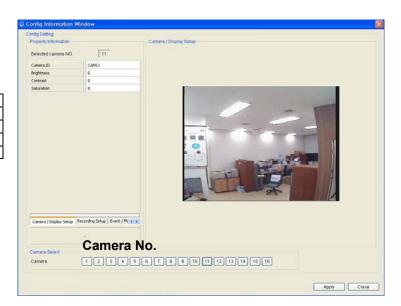


1.9.2 Setup Method (2)

It classify 3 kinds of setup menu.

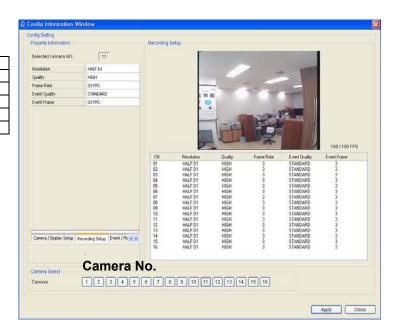
1. Camera/ Display Setup

	Description
Cam ID	Enter ID in english (Max 10)
Brightness	-10~10 (Default :0)
Contrast	-10~10 (Default :0)
Saturation	-10~10 (Default :0)



2. Recording Setup

	Description
Resolution	D1,HALF D1,CIF
Quality	Very high, High, Standard, Low
Frame Rate	NTSC: 0~30 fps / PAL : 0~25 fps
Event Quality	Very high, High, Standard, Low
Event Frame	NTSC: 0~30 fps PAL : 0~25 fps



3. Event/ Motion Setup

	Description
Motion Status	Enable/Disable
Sensitivity	0~8

	Description
Select Area	Red Field
Deselect Area	Transparent Field

Config Information W	lindow	
Config Setting Property Information		Event / Motion Setup
Selected camera NO.	11	
Motion Status	Enabled	Motion Area
Sensitivity	2	Select Area
		DeseicArea
		Oth Motion Status Sensitivity 01 Enabled 7 02 Enabled 7 03 Enabled 7 04 Enabled 7 05 Enabled 7 06 Enabled 7 07 Enabled 7 08 Enabled 7 09 Enabled 7 10 Enabled 7 11 Enabled 7 12 Enabled 7 13 Enabled 7
Recording Solup Event / Camera Select Camora	Camera N	14 Ended 7 15 Ended 7 16 Ended 7 O. 6 7 9 10 11 12 13 14 15 16
		Apply Close