User Manual Central management system of h.264 digital video recorder



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PREFACE

DVR Central Management System (CMS) is a 36 views recording software which specific supports our H.264 and 04CH MPEG-4 DVR (Digital Video Recorder). This software can provide real-time monitor, emergency record the video on PC and then playback the DVR recorded video to the user.

Moreover, the user can also setup the software recording method for the specific circumstances and performs video playback via Time and Event Search.

I. SPECIFICATION

Supported DVR Module: H.264 and 04CH MPEG-4 DVR

Main Features:

- 1. Live-time, emergency recording and playback functions available
- 2. Image setup under group mode
- 3. Playback DVR recording data by time and event search
- 4. Support DVR system setup
- 5. E-Map
- 6. RemoteAP
- 7. RemoteLite
- 8. WebServer
- 9. Dual-Monitor

	Resolution		
Supported Resolution	1024*768 above		
Live			
Security	Login Username and Password		
Monitoring Mode	1 , 4 , 9 , 16 , 36		
Display Mode	Group		
Audio Out	Yes		
Digital Zoom Control	Yes		
PTZ Control	Yes		
Snapshot	Yes		
I Frame Only	Yes		
View Title	Yes		
	Playback		
Monitoring Mode	1 , 4 , 9 , 16 , 36		

Diamley Made	D) (D Diauta ali		
Display Mode	DVR Playback		
Audio Out	Yes		
Digital Zoom Control	Yes		
Snapshot Yes			
Playback Mode	3 Modes		
	Mode1 : DVR Search		
	Mode2 : Download File		
	Mode3 : Emergency Record		
	Record		
Download DVR Recorded Data	Yes		
Live Emergency Record	Yes		
	Event		
DVR Event Log	Record & Playback		
CMS Event Log	Yes		
	System Setup		
Security	2-level		
Group Setup	Yes		
Time-Point Schedule Setup	Yes		
User Setup	Two Groups. "admin" and "guest"		
Multi-Language	Yes		
Version Information	Yes		
View Rotation	Yes, 3~10 sec.		
Buzzer	Yes, wav file		
	E-MAP		
Image View	Live View Pop-up, Status Remind		
E-Map Setup	Tree Mode Setup, Pull and Drag the Device		
	RemoteAP		
Monitoring Mode	1, 4, 9, 16, 36		
Playback	DVR Playback		
CMS Setup	Group Setup, DVR connecting Setup, Recording Setup		
	Remote Lite		
Monitoring Mode	1, 4, 9, 16		
	Web Server		
Monitoring Mode	1, 4, 9, 16, 36		
I	Dual Monitor		
Monitor Setup	Live, Multi-Live, Playback and E-Map		
Monitoring Mode	1, 4, 9, 16, 36		
	1		

II. HARDWARE REQUIREMENTS

A. MINIMUM REQUIREMENTS

- i. CPU: Intel Core 2 Duo 2.20G
- ii. Memory: 1GB
- iii. VGA Card: 128MB External Graphic Card
- iv. Monitor Resolution: 1280 x 1024, 1024 x 768 (This user manual is made by 1280 x 1024 Resolution.)
- v. OS: Windows 7/ Vista/ XP / 2000

B. SUGGESTED REQUIREMENTS

- i. CPU: Intel Core 2 Quad CPU Q8200 2.33G or higher
- ii. Memory: 2GB or higher
- iii. VGA card: 256MB External Graphic Card or higher
- iv. Monitor Resolution: 1280 x 1024, 1024 x 768.
- v. OS: Windows 7/ Vista/ XP / 2000

III. Program Install and Uninstall

A. Program Install

i.



ii. License Agreement. Select "I Agree", Go to the next step.



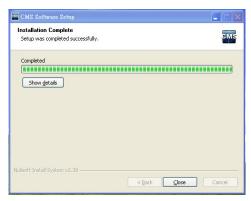
 Select the directory for CMS SOFTWARE. The default directory is "C:\Program Files\CMS Software ". Select "Next".

CMS Software Setup	
Choose Install Location Choose the folder in which to install CMS Software.	CMS
Setup will install CMS Software in the following folder. To install in a d Browse and select another folder. Click Next to continue.	ifferent folder, click
- Destination Folder	
C:\Program Files\CMS Software	Browse
Space required: 26.8MB Space available: 282.1MB	
Nullsoft Install System v2.38	
< Back	ext > Cancel

iv. Set up the name of the program folder. The default is " CMS Software ". Click "Install" to start the installation.

hoose Start Menu Folder	1999
Thoose a Start Menu folder for the CMS Software shortcu	ts.
select the Start Menu folder in which you would like to cre	ate the program's shortcuts. You
an also enter a name to create a new folder.	
CMS Software	
AntiVir PersonalEdition Classic	^
Corel eSobi v2	
65001 V2 Google Earth	
IPCamera Recorder	
KlipFolio	
Licence Plate Recognition System Media	
Microsoft Office	
Mozilla Firefox	
Network Recording Software	<u>×</u>
Do not create shortcuts	

v. When finish, click "Close" to close the procedure of the installation.



vi. To start the program, select "Start" \rightarrow "Program" \rightarrow ""CMS Software " \rightarrow "CMS ".



B. Uninstall

 i. To uninstall the program, select "Start" → "Program" → "CMS Software" → "Uninstall" to remove the program.



IV. CENTRAL MANAGEMENT SYSTEM SETUP

Please setup Central Management System step by step according to the following instructions.

NOTE: Select "Start" \rightarrow "Program" \rightarrow "CMS Software" \rightarrow "CMS" to operate CMS software and fill in the user name and password within the pop up login dialogue box. Both user name and password are admin.



A. DVR SETUP

i.



Click button to enter administrator page, and select DVR Setup tag.

ii. Among DVR Setup page, click



button to add DVR, and then

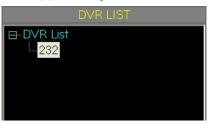
fill in the information about the DVR(s) which is going to connect.

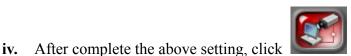
Connect Information				
Name	DVR-04CH			
IP/Domain	192.168.1.235			
Port	80			
User	admin			
Password	****			
+	Ξ	0		

Moreover, click button among the "DVR Setup" tag can adjust the DVR setting, the DVR setting and interface is the same as DVR local site. The image is shown in the following,

CAMERA MOTION RECORD	ALARM SYSTEM	SAVE
CAMERA	1 4 >	
VIDEO ADJUST	SET	
CAMERA TITLE	01 SET	
DISPLAY	ON 🔹 🕨	
DWELL TIME	2 SEC 4 >	
PTZ SETUP	SET	

iii. After finish adding DVR(s), DVR LIST block will display the new DVR(s) which just add.





button to perform the

connection. If it is success for connection, the screen will pop-up the success information dialog box. (However, if it is failure for connection, the screen will pop-up the failure information dialog box.)



NOTE: If the user wants to delete the connected DVR, select the DVR first



v. If the connected camera within the DVR List includes PTZ function, PTZ preset point can be setup via operating PTZ block. The operating steps are presented in the following, **a.** Spread up the DVR within the DVR List, double-click the camera which includes PTZ function.



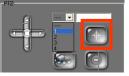
b. Click the drop down list of preset point and change the name of it.



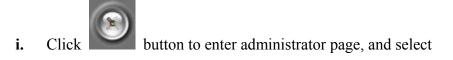
c. Then, use the navigation key to adjust the preset point position.



d. Finally, click the preset point button to complete the setting.



B. GROUP SETUP



Group Setup tag.

 Within Group Setup page, right click of the mouse on the Group List and select Add Group option. The new add Group 1 will display under the Group List.



iii. Right-click the button of the mouse and select Add Area option. The New Added "Area 1" will display within Group 1.



iv. Click Area 1 to expand this area. (NOTE: Each area can display 16 views.)



v. Finally, add the DVR channel into the new created Area. There are "Mouse Drag", "View All" and "Individual Select" three methods.

- **a.** Mouse Drag
 - a-1. Select the DVR channel which is going to add into the Area View.
 - a-2. Drag the mouse from the selected channel to the Area view. As the following example,

GROUP LIST	DVR LIST
⊟-Group List	⊟ DVR List
🗄 Group1	🗄 🖾 DVR-08CH
≜-Area1	- 1 01
- DVR:DVR-08CH,CH01(01)	2 02
- DVR:DVR-08CH,CH02(02)	- 3 03
- DVR:DVR-08CH.CH03(03)	- 4 04
DVR:DVR-08CH.CH04(04)	- 5
DVR:DVR-08CH,CH05(05)	- 6
- DVR:DVR-08C1 CH06(06)	- 7 07
- DVR:DVR-08CH.CH07(07)	- • 08
- DVR:DVR-08CH,CH08(08)	- 9
- DVR:DVR-08CH,CH09(09)	
- DVR:DVR-08CH.CH10(10)	
- DVR:DVR-08CH.CH11(11)	-l= 12
-DVR:DVR-08CH,CH12(12)	- 💷 13
- DVR:DVR-08CH,CH13(13)	-14 14
DVR:DVR-08CH,CH14(14)	15
- DVR:DVR-08CH,CH15(15)	16
DVD DVD ASOLI OUTE(16)	

- **b.** View All
 - b-1. Select the Area first and then right-click the button of the mouse on the DVR. After that, select View All option.



b-2. Click the Area which is mentioned above and it will display all 16CH of DVR.

GROUP LIST				
⊟ Group List				
e Group1				
Area1				
- DVR:DVR-08CH,CH01(01)				
- DVR:DVR-08CH.CH02(02)				
DVR:DVR-08CH.CH03(03)				
- DVR:DVR-08CH.CH04(04)				
- DVR:DVR-08CH.CH05(05)				
- DVR:DVR-08CH.CH06(06)				
DVR:DVR-08CH,CH07(07)				
DVR: DVR-08CH, CH08(08)				
- DVR:DVR-08CH.CH09(09)				
DVR:DVR-08CH,CH10(10)				
-DVR:DVR-08CH.CH11(11)				
DVR:DVR-08CH,CH12(12)				
DVR:DVR-08CH,CH13(13)				
DVR:DVR-08CH.CH14(14)				
- DVR:DVR-08CH,CH15(15)				
DVP-DVP-08CH CH16(16)				

- c. Individual Select
 - c-1. Click DVR to expand all the DVR channels •
 - c-2. Right click the button of the mouse to select the channel which is going to add to the Area, and select the display view of the Area.

∃ DVR	List		
🕀 🔯 22			
📥 🐼 D'	VR2-2	32	
	CH1		
	CH2		
4	CH3		
6	CH4		
	CH		
	CH	View 1	
		∀iew <u>2</u> ∀iew <u>3</u>	
	CH	View <u>5</u> View 4	
	CH	View 5	
	CH	View 6	
	CH	View 7	
	CH	View <u>8</u>	
	CH	View <u>9</u>	
	CH	View 1 <u>0</u>	
	CH	Vie <u>w</u> 11 <u>V</u> iew 12	
	CH	View 12 View 13	
	CH	View 14	
		View <u>1</u> 5	
		View 16	

c-3. After complete the selection, the Area view will display the DVR channel which just mentioned above.

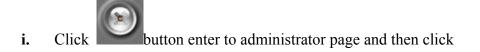
ia-Group1 ia-Area1
DVR:DVR-08CH,CH01(01)
DVR:DVR-08CH.CH02(02)
DVR:DVR-08CH,CH03(03)
DVR:DVR-08CH.CH04(04)
DVR:DVR-08CH,CH:9
DVR:DVR-08CH.CH06(06)
DVR:DVR-08CH,CH07(07)
DVR:DVR-08CH_CH08(08)
DVR:DVR-08CH,CH:5

v. If the user wants the view of the area to display All Frame, show the Name and the Time, the user can click the checkbox of each item. The

user can insert the name of each view as well. Moreover, press button can switch to other views. (NOTE: Only display I Frame can increase the PC efficiency.)

[Group Setup	
Display All Frame	Show Name	Show Time	Ch Name
View1 🔽			View1
View2 🔽			View2
View3 🔽			View3
View4 🔽			View4
View5 🔽			View5
View6 🔽			View6
View7 🔽			View7
View8 🔽			View8
View9 🔽			View9
View10 🔽			View10
View11 🔽			View11
View12 🔽			View12
View13 🔽			View13
View14 🔽			View14
View15 🔽			View15
View16 🔽			View16
ALL	ALL	ALL	
None	None	None	
			»>

C. SYSTEM SETUP



System Setup tag.

- **ii.** After entry to the system setup page, the system setup related options are provided. The instructions of all the options are shown in the following.
 - a. Use Overlay: Select "Use Overlay" can increase PC efficiency.
 - b. Auto Adjust Resolution: Select "Auto Adjust Resolution" can alter the screen resolution automatically. (NOTE: if the PC screen supports 1280*1024 resolution, the screen will adjust to 1280*1024 and CMS software will adjust to 1280*1024 screen resolution automatically after enable "Auto Adjust Resolution". However, if the PC screen does not support 1280*1024, the screen will adjust to 1024*768 and CMS software screen will adjust to 1024*768 resolution automatically.)



c. Default Screen Split: The number of split screen will be displayed when CMS software is operated in the beginning.



d. DATE Format: There are three kinds of date formats can be chosen to display on the view which are yyyy/mm/dd, dd/mm/yyyy and mm/dd/yyyy.



e. Language: There are twelve languages can be selected which are included English, German, Czech Republic, Spanish, Finland, French, Italian, Netherlands, Poland, Portugal, Sweden, Chinese (Traditional) and Japanese.



f. Server: Click Web Server or RemoteAP Server option can activate the server function. Moreover, if the Web Server is enabled, the

RemoteAP Server will be activated in the same time.

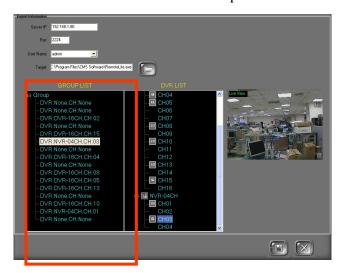


g. RemoteLite Application: Click **button can export**

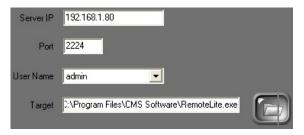
RemoteLite program.



After enter to the "Export Information" page, the user can pull the DVR channel from DVR List to the Live View of Group List. There are sixteen views can be exported.



Moreover, all the other related information about the exportation can be setup within this page, such as, Server IP, Port, User Name and the path of the remotelite program exportation.



h. Server Timeout: If the user login to the remote program under the Guest authority, the remote program will cut the connection automatically when times up.



Sequence Interval: To select the interval time of channel rotation. i. The setting value is between $3 \sim 10$ sec.



MultiMonitor: There are Live form, Multi-Live Form, Playback j. Form and E-Map four options support multimonitor functions.



Buzzer: User can select the time of the buzzer when the buzzer is k. enable and user can also select the sound file.





iii. After complete the setup, please click button to save the setting



to exit System Setup page.

D. USER SETUP

Click

i.

CMS supports simple security management.



to get into user setup page, then select User Setup tag.



ii. On the right side of the user setup page, please fill in the user name,

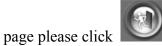


iii. Click the Change Password button to alter the password after select the

setup user account.



iv. After configuration, please leave user setup page. In the live-viewing



to login/logout.

V.

REAL-TIME MONITOR

A. REAL-TIME IMAGE

DVR Central Management System (CMS) is software which can control Multi-DVRs. Due to CMS is designed by "Group" concept, the software can combine different channels within different DVRs into ONE Group to perform real-time monitor. The image is shown in the following:



B. BUTTON INSTRUCTION of REAL-TIME

IMAGE



- i. When connected DVR has triggered events, these triggered events will be presented within this block.
- ii. Double-click the left button of the mouse on the triggered event of the Event List block, the live image will be transferred into the playback mode of this event. Click on this button back to the Live Image mode.
- iii. Snapshot. Click the button can snapshot the image of the screen.
- iv. System Log. Press this button can display the software system log which is including CMS start and close time and so on. The system log example is shown as follows,

2008/07/021	09:59:06>192	169 21 22	Start Conner	1	
	09:59:06>192				
	09:59:11->192				
	09:59:11->192				
2008/07/02	09:59:12>192	168.1.232	Start Conner	st	
2008/07/02	09:59:12->192	168.1.232	Connect Su	cess	
2008/07/02	09:59:12>192	168.1.232	Connect Fai	ed	
	09:59:42>192				
	09:59:42>192				
	09:59:42>192				
	09:59:42>192				
	09:59:42>192				
	09:59:47>192				
	09:59:47>192				
	10:00:12>192				
	10:00:12>192				
2008/07/02	10:00:13>192 10:00:17>192				



v.

When click on the view, the digital zoom panel will be displayed to control the digital zoom in/out.

vi. Snapshot. Select the view first and then click on this button to save the view image.

U	$\bigcirc \textcircled{\baselinetwidth}$

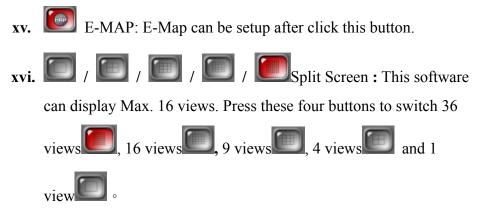
vii. PTZ controller interface. Provides Focus Zoom and IRIS.

- viii. 🔛 : Emergency Record Status Light.
- ix. Close the program.
- **x.** Get into administrator page.
- xi. E : Recorded video playback
- xii. Emergency REC. Click this button to start recording immediately in emergency situation. To stop recording, please click the button again.
- **xiii.** Download the file. Click this button to download the specific time period file within the Group. After finish selecting

the Start and End Time, please click button to start download

iv. 💭 / 💹 : Minimize the program / Full Screen mode •

Minimize the program to the windows toolbar. / To exit the full screen mode, use "Esc" or right-click the mouse.



VI. EMERGEMCY RECORD & DATA BACKUP

Click button to enter Emergency Record mode. Moreover, click button to perform data backup. The operating instruction is shown in the following.

A. EMERGENCY RECORD





i. Before operate Emergency Record, please click

enter administrator page.

Group Setup DVR Setup Schedule Setup System Set	up UserSetup About		-
		Channel Live View	
GROUPLIST			
	□ DVR.ust ⊕ DVR-04CH ⊕ DVR ⊕ DVR ⊕ DVR-04CH ⊕ DVR-04CH ⊕ DVR-04CH ⊕ DVR-04CH ⊕ DVR-04CH ⊕ DVR-04CH	Daplay Al Franz Dh Name. Venn1 Venn2 Venn2 Venn3 Venn6 Venn6 Venn6 Venn6 Venn6 Venn6 Venn8 Venn8 Venn1 Venn10 Venn12 V	٢

ii. Then, select Schedule Setup tag to enter to schedule setup page. As the following image,



iii. Click on the drop down list of 1. Record Path block to select the HDD to save the Emergency Record file. After that, click on



button to save the setting. Finally, click on 3.



button to exit System Setup page.

Group Setup DVR Setup Pecord Path Cill Schedule Record DVR-04CH	Schedule Setup Sys	tem Setup 🛛 User Setup 🛛 A	About	2. 🕲
ALL 0 1 2 Mon Tue Wed Thu Sat Sun	3 4 5 6 009/03/12 17	7 8 9 10 11 9 9 9 9 9 9 7 • • • • 9 7 • • • • • 7 • • • • • 7 • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • <td>2009/03/12 - 23</td> <td>5.</td>	2009/03/12 - 23	5.



iv. Under the Real-Time Image mode, please click button to start Emergency Record.

		5/74-16/CF-2005/00/18110-50/01	DVR-16CH-View10 No Video	DVR-16CH/Vev11 No Video	types Carraogi (avressed for Corresson of the second of th	
DVR-16CH-View13 No Video	DVR-18CHView14 (No Video	OVR-16CH/View15 No Video	DVR-16CH.View16 No Video	7VFC04CE2009/09/18 18 58 10	DVE-040E2009/08/18 18 50 10	GROUP LINT
DVFEDICE2009/03/1819/5810 8 7 6 5	DVR-04C + 2009/08/18 18 58 10	No Video		DVR-00CF-2009/09/1818-1815133	DVR-08CH 2009/08/18 18:51:32	Audio
No Video	No Video	No Video	No Video	No Video	No Video	()
No Video	No Video	No Video	No Video	No Video	No Video	
Event Li	si Co Co					18 18 54 34 Aup 1 Area1)

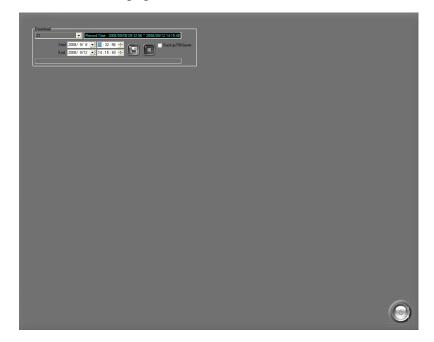
NOTE: This Emergency Record is for GROUP view recording.

When start recording, the will become red. If the Emergency Record does not stop by the user, the system default for recording time of Emergency Rec. is 5 Minutes.

B. DATA BACKUP

The Data Backup of DVR Central Management System is to backup the data from the connected DVR(s).

i. Under the Real-Time Image mode, please click button to enter Download page.



ii. Click DVR drop down list to select the backup DVR and then, it will display the DVR recorded time period on its right hand side.



iii. Select the Start and End backup time.



iv. Click button to select data saved folder and then click



to start backup.

🗑 Select Path 🛛 🗙	
Backup Path	
👝 Documents and Settings	
⊱ ian_hsiao ⊱ 桌面	
👝 lan	
📂 lan 0630	
	1
Download DVR2 Record Time : 2008/09/	11 09:33:13 ~ 2008/09/12 14:21:48
Start 2008/ 9/12 14:17:13	Backup R6Viewer
End 2008/ 9/12 💽 14: 21: 48 🚔	

NOTE: 1. If the user wants to stop backup immediately during

the backup period, please click **button** to stop it.

2. Each backup file will be named as START TIME.

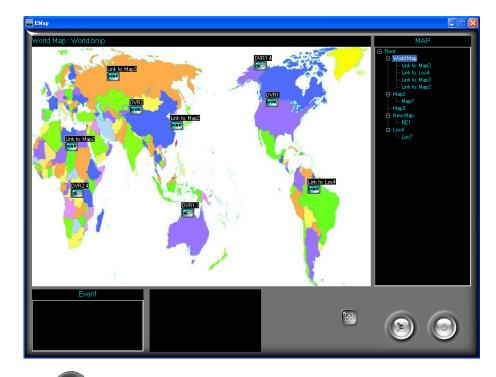
For example: (20080630154009.264)

- **3.** Click "Backup R6Viewer" option can download R6 Viewer software.
- 4. The downloaded *.264 file has to be played by CMS software and R6 Viewer software. It has not supported by other media player.

VII.E-MAP



Click button to entry E-Map setup page.



- Setup: E-MAP setup page. i.
- Exit: Exit E-MAP. ii.
- × Refresh: Refresh E-Map. iii.

A. E-MAP MONITOR

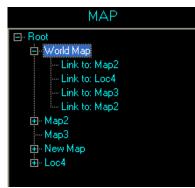
When DVR, Camera or Sensor of the E-Map detect disconnection



motion and alarm , the icons will be flash and the events will be added into the event list.

B. MAP TREE

This will present the structure of the E-Map.



C. EVENT LIST

When disconnection, motion and alarm are triggered, the events will be added to the event list.



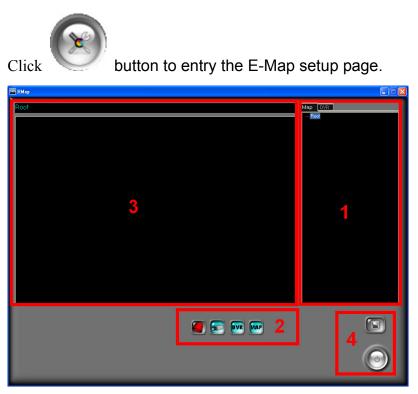
D. LIVE MONITOR

Click the left button of the mouse on the sensor icon

, camera icon

or DVR icon will present the live image on the bottom of the screen. Moreover, double-click these icons will entry to the full screen mode.

E. E-MAP SETUP



In the following, the screen of E-map setting will separate into four blocks to instruction.

Block1: The setup DVR which connected by CMS software. Moreover,

click the tags Map DVR to switch the setup E-map and the connected

DVR. Click the right button of the mouse on the E-Map can select the



map, edit the name and delete the map \perp

Block 2: The icon of devices which can drag and pull to the map.

E Add the alarm in the map. Click the icon can see the live view of alarm device.

Image: Add the camera in the map. Click the icon can see the live view of the camera.

Add the DVR in the map. Click the icon can see the live view of the DVR.

ИАР

: Add the map in the map. Click the map icon will link to another map.

Block 3: It presents the selected E-map image and node.

Block 4: The function instruction of the following button.



: Reserve the setup

: Exit the E-map page.

Add the E-Map

The fundamental operating steps of add a new E-Map

i. Select the Node first to add a new E-Map. Such as "Root" node in the beginning.



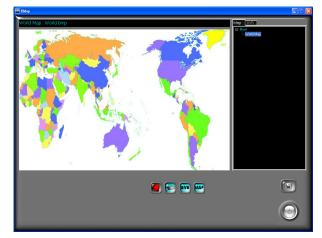
- illock 2 to block 3 and the following dialogue ii. Drag and Pull box will pop-up.

_	<u> </u>		1	
Tree Node	Settin	g		×
Node Name				-

User can click button to complete the setting or click the drop down list to select the map. After click the drop down list, then select "Create New Map (Not Link to Existed Map)" option. The following dialogue box will pop-up.

Tree Node Setting	
Map Path	
Node Name	
Click	button to select the image of the map and key in the
name of new m	nap in Node Name

iii.Finally, click to complete the new map setting.



If the user wants to create the new E-map, please follow the above three steps.

Add the E-Map Link

The fundamental operating steps of add the link for exist maps. (* Make sure there are more than two maps)

As the following image, there are two maps that have setup



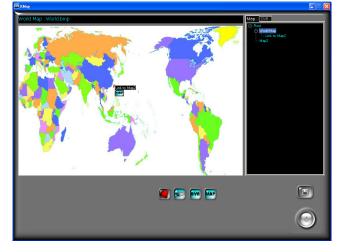
If the user wants to create a link of one map into another map, such as the link of "Map2" in "World Map" in above image, please follow the following steps.

- i. Please click the map in Block 1 which wants to add the link from another map. (i.e. World Map)
- **ii.** Drag and pull the **icon** form Block 2 to Block 3, and then select "Map 2" in the drop down list of Node Name.



iii. Finally, click button to complete the map setting.

iv. As the following image, there is a link of "Map2" in the "World Map".



Add the DVR

The fundamental operating steps of add the new DVR.

i. Select the map on Block 1 first. Such as "World Map"

ii. Drag and pull the icon from Block 2 to Block 3.

iii. From the pop-up window, select the DVR

iv. Finally, the new DVR icon will be shown within the E-Map.

Select DVR 🔸

1 2

Add the Camera

- i. Select the map on Block 1 first. Such as "World Map"
- ii. Drag and pull the icon from Block 2 to Block 3.
 iii. From the pop-up window, select the DVR

 iii. From the camera

 iii. From the camera
- iv. Finally, the new camera icon will be shown within the E-Map.

Add the Sensor

- i. Select the map on Block 1 first. Such as "World Map"
- ii. Drag and pull the

icon from Block 2 to Block 3.

Select DVR 🔸

1 2

iii. From the pop-up window, select the DVR

DVR1_Sensor

iv. Finally, the new sensor icon will be shown within the E-Map.

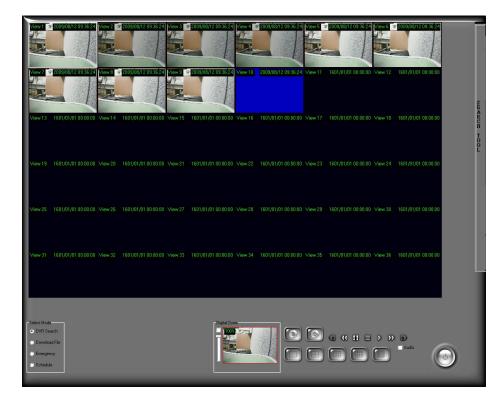


button to reserve the setup.

VIII. VIDEO PLAYBACK



to enter Video Playback mode.

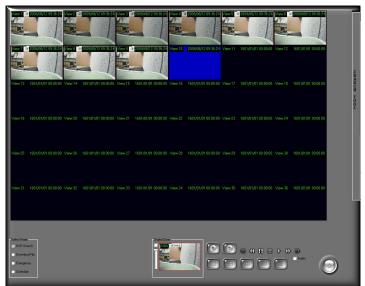


A. VIDEO PLAYBACK

Please select the Video Playback mode. There are DVR Search, Download File and Emergency Rec. and Schedule playback modes. For the following image,



i. DVR Search



a. Under the DVR Search playback mode, move the mouse to the right of the screen. SEARCH TOOL will pop-up. For the following example,

HDD 1	-		
Index	Start Time	Event	Channel
1	2008/07/02 11:47:20	POWER C	
2	2008/07/02 11:45:01	POWER C	-
3	2008/07/02 11:39:51	POWER C	-
4	2008/07/02 11:35:49	POWER C	-
5	2008/07/02 11:31:14	POWER C	-
6	2008/07/02 10:59:35	POWER C	
7	2008/07/02 10:56:01	POWER C	-
8	2008/07/02 08:56:53	RECORD	
9	2008/07/02 08:54:18	POWER C	
10	2008/07/02 08:52:59	POWER C	
11	2008/07/02 08:51:22	POWER C	-
12	2008/07/02 08:50:22	POWER C	••
13	2008/07/01 20:59:18	RECORD	•
14	2008/07/01 20:58:31	POWER C	-
15	2008/07/01 20:57:58	POWER C	-
16	2008/07/01 20:56:36	POWER C	-
17	2008/07/01 20:55:37	POWER C	-
Time S	earch 7/2 🕂 11:47:20	-	

b. Select the DVR first, then it will display the recording time of the selected DVR.

- c. After selected the playback DVR, video playback will be operated by doing Event Search and Time Search.
 c-1. Event Search
 - c-1-1. Select the playback HDD of DVR
 - c-1-2. After selected the HDD, it will display all trigger events to the following table. Double-click the left button of the mouse on the trigger event. For the following example,



- c-1-3. After finish the above setting, the playback screen will play the selected event video.
- c-2. Time Search
 - c-2-1. Please select the playback start time within the Time Search block.



- c-2-2. After finish the time setting, please click button to start video playback.
- **d.** Click / / / / / / / button to switch the

playback split screen 1 CH/ 4CH/ 9CH/ 16CH/ 36CH.

- e. Click 🔲 to stop playback. Moreover, click 🕨 to start playback.
- f. Use & to fasten the forward and rewind playback speed.(NOTE: Forward and Rewind playback only display I Frame.)

ii. Download File



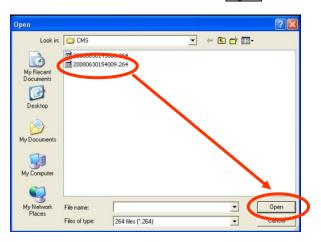
a. Select Download File option within Select Mode block. Then,



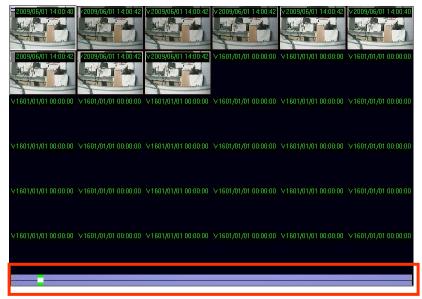
button to open the playback file.

Open					? 🔀
Look in:	CMS		•	+ 🖬 📩 📰 +	
My Recent Documents Desktop	2008063014 2008063015				
My Documents					
My Computer					
My Network Places	File name:	[· [Open
1 Multa	Files of type:	264 files (*.264)		•	Cancel

b. Select the file first and then click Open button to start playback.



c. Within the playback image, the user can use the seeking bar which is under the playback screen to find out the specific time-point. As the following example,



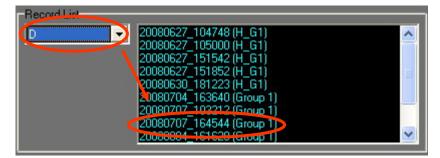
iii. Emergency Rec.



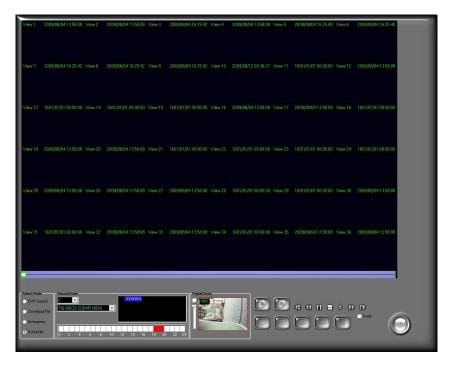
 a. Select Emergency Rec. option within Select Mode block. The Record List block will pop-up on the left of the Select Mode block.



 b. Select the HDD which saved the Emergency Record file, and then double-click the left button of the mouse on the Emergency Record file which wants to playback.



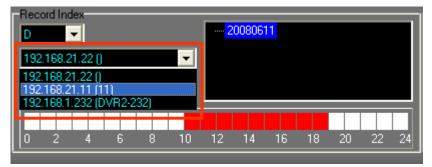
iv. Schedule



a. Select schedule option within Select Mode block. The Record Index block will pop-up.

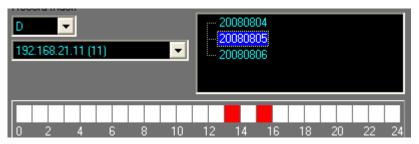
Reco	•					2	00806	<mark>11</mark>				
192.	168.21	.22 ()			-							
o	2	4	6	8	10	12	14	16	18	20	22	24

b. After selected the hard disk, the drop down list will display the DVR(s) which has reserved the data of Schedule Record.

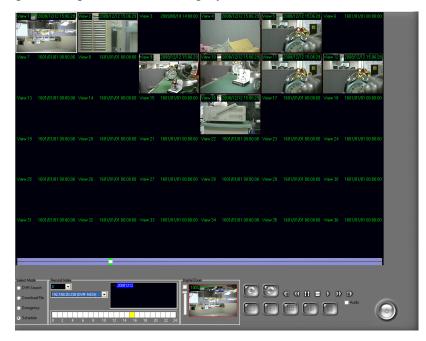


c. After selected the DVR, it will display the date which possesses the data of Schedule Record. As the following image, clicking the

different date will present the correspondence Schedule Record time period. (NOTE: The time period will become red while having Sync Record data.)



d. Finally, double-click the left button of the mouse on the red time period to perform the video playback.



B. EXPORT IMAGE

a.

Image data can be export as JPG or AVI format.

- i. Export as JPEG format:
 - Click button. It will show the following dialogue box.



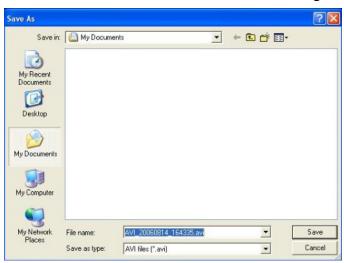
- b. The default filename will be named as "Img_channel_ yyyymmdd_hhmmss.jpg" format. The user can decide the filename and the saving path.
- ii. Export as AVI format:

Click

a.



button. It will show the following dialogue box.



 b. The default filename will be named as "AVI_ yyyymmdd_hhmmss.avi" format. The user can decide the filename and the saving path.

IX. DIGITAL ZOOM

By enabling the digital zoom function, user can zoom in/out the image to get proper view. Digital zoom can be functionalized in live-viewing, playback viewing. The following figures refer to the digital zoom panel.



There are three main components of digital zoom panel.



i.

: Preview window. The image or video in the

preview window is not live, the image frame will be updated within a time interval. The red frame indicates the live-viewing window, and the number of the left-down corner indicates the zooming rate.

- ii. Digital zooming bar. By moving the control bar up or down, the live-viewing and preview window will be zoomed in or out. The zoom rate is from 100% to 1000%.
- iii. Zoom status. By un-check this function, the image or video will be displayed in the original size.

X. REMOTE CONTROL

Through activating the function of Web server, Remote program server and RemoteLite program, DVR Central Management System (CMS) provides web server browser, remote program and remote lite program for user's demand.



button to the administrator page, select System Setup tag to

enable remote connection mode.

Server Veb Server RemoteAP Server	Port Port	80 2224
-RemoteLite Application		

A. Web Server

Enable Web Server will allow web browser to connect to DVR Central Management System (CMS) server to monitor real-time image. Please refer to instructions in the following.

- Connection Method: In Windows Vista, please click right click on the IE web browser and select "Run as administrator" to start the program. For example, within Internet Explorer 7, input the address: <u>http://192.168.1.104/</u> (which is seen in above image 192.168.1.104/).
- ii. Connection Page: After successfully connected, the user will see the operating interface shown in the following:

Online Monitoring		
You can monitor the real time images from the rem	ble server.	
8	Internet Explorer - 安全推響告 文 最哲葉安裝這個載27 名第 :HRmobilitä (ab ● 名第 :HRmobilitä (ab ● 我行者 Yideo System co., LM, (文 更多進海の) 安装の ● 教行者 Yideo System co., LM, (文 更多進海の) 安装の ● 教行者 Yideo System co., LM, ● 夏季進海(0) ● 教行者 Sizonal (above) (Home

Click "Install" button to install HRemoteLiteX.cab

 iii. On-Line Monitoring: The function has to operate with "Remote AP Server" enabled. If the OS has installed Windows XP or Windows Vista, please perform the following internet options setting steps:



b. Click the "Tools" \rightarrow "Internet Options"



c. Click "Security" \rightarrow "Trusted sites"



c. Click sites, then unclick the option in Step 1. Input the IP address of the recording software server in the "Add this Web site to the zone" area, then click "Add" button (Step 2) to complete the trusted sites list. Finally click "OK" to exit.

You can add and remove Web sites in this zone will use the zone's secur	ity settings.
Add this Web site to the zone:	2.
	Add
Web sites:	
http://192.168.1.104	Remove
Require server verification (https:) for all	sites in this zone

d. After entering "Online Monitoring", please click "information bar" when enter the first time. (The prompted information is normally located under the browser).

💡 To help protect your security, Internet Explorer stopped this site from installing an ActiveX control on your computer. Click here for options...

a. Within the pop-up drop down list, please click "Install ActiveX Control...".

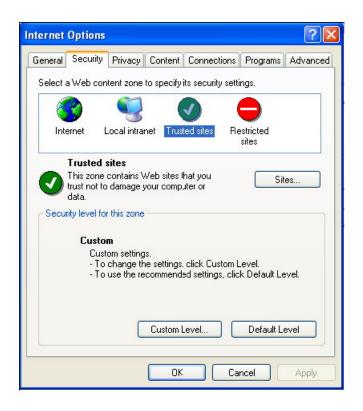
X

Install ActiveX Control
What's the Risk?
Information Bar Help

b. Click "Install" to perform the installation.



c. If the installation does not work, please click "Tools" →
 "Internet Options…" → "Security" tag → "Custom Level"



Security Settings window will pop-up, and the user has to change the following options:

🗑 Download signed ActiveX controls	
O Disable	
Q Enable	
Prompt	→ Set for "Prompt"
🚱 Download unsigned ActiveX controls	
🗌 🔘 Disable	
🔘 Enable	
Prompt	→ Set for "Prompt"
Automatic prompting for ActiveX controls	
🗌 🔘 Disable	
Enable	→ Set for "Enable"
👰 Initialize and script ActiveX controls not n	narked as safe
🔘 Disable	
🔘 Enable	
Prompt	→ Set for "Prompt"

After complete the setup, please repeat Step d~ Step f.

h. After the installation, the online monitoring page will show as following:

DVR:View1	DVR:View2	DVR:View3	DVR:View4	DVR:View5	DVR:View6	Remote	
No Video							
DVR:View7	DVR:View8	DVR:View9		DVR:View11	DVR:View12		
No Video							
No Video		G					
DVR-16CH:View19	DVR-16CH:View20	DVR-16CH:View21	DVR-16CH:View22	DVR-16CH:View23	DVR-16CH:View24		0 U
No Video		L					
DVR-16CH:View25	DVR-16CH:View26	DVR-16CH:View27	DVR-16CH:View28	DVR-16CH:View29	DVR-16CH/View30		S T
No Video							
DVR-16CH:View31	DVR-16CH:View32		DVR-08CH:View34		i bingnone second		
No Video	No Video		No Video				
					10 Car		
			Digital Zoom	Connect	admin		
			F	ID Password	xxxx		
			100%			2009/08/06 13:40:24	1
						LIVE(Group1:Area1)	
nput	the	00	rrect	Use	r N	ame	and
put	uio	00	11000	000		unic	unu
			_				
	admi	n	_			I PAI	1
asswo	ard *****			nd that	n click	C	to
a55WC			_ , a	iu trie	I CIICK		e to
onneci	t with th	וe cam	era.				

- iv. Remote Online Monitoring Control: Please refer the following steps to remove Online Monitoring software
 - a. Select "Tools" \rightarrow "Internet Options..."



i.

b. Select "Programs" tag \rightarrow "Manage Add_ons..."

General	Security	Privacy	Content	Connections	Programs	Advanced
Intern	et program:	\$				
9		an specify nternet se		ram Windows	automaticall	y uses for
	HTML 6	editor:	Micros	oft Office Word	ł	~
	E-mail:		Outloo	k Express		~
	Newsgr	roups:	Outloo	k Express		~
	Interne	et Call:	NetMe	eting		~
	Calend	ar:				~
	Contac	t List:	Addres	is Book		~
Defau	lt web brow	wser				
E	Intern brows		r is the dei	fault web	Make d	efault
	🔽 Tell	me if Inte	rnet Explo	rer is not the d	efault web t	orowser.
Manag	ge add-ons					
G		e or disable ed in your	e browser a system.	add-ons	Manage a	add-ons

c. Select "Downloaded ActiveX Controls" option, and then choose "HRemoteLiteX Control", finally click "Delete" button and "OK".

prevent some webpage	ons that are installed s from working corre	on your computer. stly.	Disabling or deleting	g add-ons might
Show: Downloaded ActiveX	Controls (32-bit)	~		
Name Pub	lisher	Status	Туре	File
Enabled				
RemoteLiteX Control (Not	verified) OnlineMon	it Enabled	ActiveX Control	REMOTE
Constant Con				
Shockwave Flash Object Ado	be Systems Incorpor	a Enabled	ActiveX Control	Flash9e.
	be Systems Incorpor	a Enabled	ActiveX Control	Flash9e,
<	be Systems Incorpor		ActiveX Control	
<	e e	Delete ActiveX		
<	E Systems Incorpor		of an alabove and	

Internet Explorer 6 · Windows XP or Windows 2000 :

- a. Open the OS installation folder, such as "C:\Windows" or "C:\WINNT".
- b. Open "Downloaded Program Files" folder.
- c. Right-click the mouse on "HRemoteLiteX Control" option and select "remove" to delete Remote Online Monitoring Control.
- v. Download the remote program: When select "Download remote program" from main page, the user can download the installation file of remote program.

B. Remote Program

By starting remote program, it enables Remote Program to connect with the PC Server which is using DVR Central Management System (CMS). Remote program allows user to remotely "View Live Video", "Setting", and "Playback". The operation of Remote Program is similar to DVR Central Management System (CMS) Server.

- Program Installation: Remote software program has been installed when installs DVR Central Management System (CMS) into PC.
- ii. Program start:
 - a. Remote program was installed with DVR Central Management System (CMS) installation: Select "Start"
 → "Program" → "CMS Software " → "Remote" to start the program.
 - b. With Windows Vista, please right-click the remote control program, then select "Run as administrator" to start the program.

DVR-04CH:View1 No Video	DVR-04CH:View2 No Video	DVR-04CH:View3 No Video	DVR-04CH:View4 No Video	DVR-04CH:View5 No Video	DVR-04CH:View6 No Video	Remote
140 41000	110 11000	100 1100	No video -	110 1100	110 1100	
OVR-04CH:View7	DVR-04CH:View8	DVR-04CH:View9	DVR-04CH:View10	DVR-04CH:View11	DVR-04CH:View12	
No Video						
OVR-04CH:View13	DVR-04CH:View14	DVR-04CH:View15	DVR-04CH:View16	DVR-16CH:View17	DVR-16CH:View18	
No Video						
OVR-16CH:View19	DVR-16CH:View20	DVR-16CH:View21	DVR-16CH:View22	DVR-16CH:View23	DVR-16CH:View24	
No Video	No Video	No Video	No Video	No ∀ideo	No Video	
DVR-16CH:View25	DVR-16CH:View26	DVR-16CH:View27	DVR-16CH:View28	DVR-16CH:View29	DVR-16CH:View30	
No Video						
DVR-16CH:View31		2009/08/06 12:22:01	DVR-08CH:View34	C2009/08/06 12:22:04	L2009/08/06 12:22:03	
No Video	No Video		No Video			
1	Event List	-Digital Zoom				USER:admin
					1 [
		_ 100%		J I	$\bigcirc \bigcirc \bigcirc$	2009/08/06 12:24:46
						LIVE(Group1:Area1)

- iii. Connection Setup: Please refer to following steps.
 - a. Before the remote program connected, please insert the Server IP, User and Password of the main CMS.



- **b.** Eull Screen Mode. To exit the full screen mode, please right-click the mouse.
- c. Ei Minimize the program.
- d. Let's Auto switching channel. Users can set different auto switching combinations.
- e. Manual recording. User may start recording immediately. To stop recording, please click the

recording button again.



Playback mode. Display the recording data of the

server.



: Setup Page.



Exit the remote program.

C. Remote Lite

Remote Lite is a CMS remote software which is different from DVR Central Management System (CMS) Server. Basically, Remote Lite is designed for live-viewing only. It is not allowed user to playback or to change any setting. The Remote Lite is exported by the DVR Central Management System (CMS). User can select each channel or part of them to export. In Windows Vista, please right-click on the remote lite



program, then select "Run as administrator" to start the program.

No_Video	No_Video	No_Video	No_Video	
No_Video	No_Video	No_Video	No_Video	
No_Video	No_Video	No_Video	No_Video	
No_Video	No_Video	No_Video	No_Video	
			Sarver Cito Remo	5



button to connect with the CMS Server, as the following

Click image.



APPENDIX A: GRAPHIC CARD TEST TABLE

The following list presents the graphic cards which have been tested with Network Recording Software Premium series.

OS		
Windows 2000	ATI	RADEON 7500
	NVIDIA	Geforce 6200
Windows XP	ATI	RADEON 9200, RADEON 9550, RADEON XPRESS 200
	NVIDIA	GEFORCE 6200, GEFORCE 6600, GEFORCE 7100, GEFORCE 7300, GEFORCE 8500, GEFORCE FX 5200
Windows Vista	ATI	RADEON XPRESS 200M, RADEON HD 2400 PRO
	NVIDIA	Geforce 8500
	Intel	G33
Windows 7	ATI	RADEON HD3650
	NVIDIA	GEFORCE 7050
	INTEL	G33/G31

- NOTE 1: All the graphic cards which are shown in above table have to update their driver to the latest version. Please go to ATI, NVIDIA or Intel official website to update the driver.
- NOTE 2: By using Windows Vista, due to Intel G33 Driver (Version: 7.14.10.1461) from its OEM have not supported Vista DirectX 10 yet, it cannot display the image within Overlay mode while operating Dual-Monitor. Therefore, this caused problem still wait for the solution from its OEM.