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# CHAPTER 1 Hardware Specification

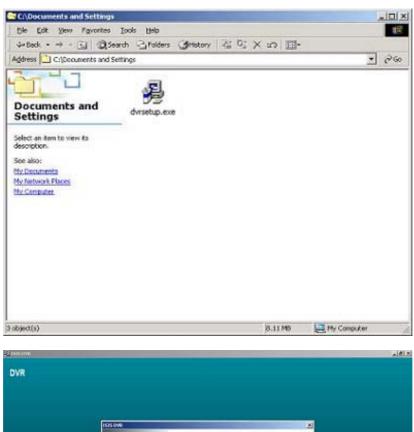
### **1.1 Product Specification**

Mode	els	0403	0406	0412	0812	0824D	1612	1624D	1648	1648D
Displaying	NTSC	30 fps	60 fps	120 fps	120 fps	240 fps	120 fps	240 fps	480 fps	480 fps
Speed	PAL	25/60 fps	50/120	100/120	100/240	200/120	100/240	200/480	400/480	400
Recording	NTSC	30fps	60 fps	120 fps	120 fps	240 fps	120 fps	240 fps	120 fps	240 fps
Speed	PAL	25fps / 60	50/120	100/120	100/240	200/120	100/240	200/120	100/240	200
Video Ir	puts	4	4	4	8	8	16	16	16	16
Audio Ir	puts	1	2	4	4	8	4	8	4	8
Sensor I	nputs	4	4	4	16	16	16	16	16	16
Alarm Ou	utputs	2	2	4	8	8	8	8	8	8
Video Res	olution	640 X 480, 640 X 240, 320 X 240 (NTSC) / <b>768 X 576</b> , 768 X 288, 384 X 288						(288 (PAL)		
Compressi	on Type	MPEG-4								
Suppo Signal T		NTSC, PAL								
Supported	Network	TCP/IP, PSTN								
Suppor Backup D				H	DD, DVD/R,	CD/RW, Netv	work Driver,	etc.		
Suppor PTZ Prof	rted	Unite GOL	C&B Tech-CND100200&SMART, Changzhou Minking-Minking, CTNCom-HD0670, Dong Yang Unitech-DSC230, DRAGON-DRAGON, Dynacolor-TPD7720, Geosan-GRX1000, PELCO D&P, GOLDENEYE-GOLDENEYE, InterM-VRX2201, KALATEL-KTD312, KJK-KJK, LG-LPTA100L, SAMSUNG-SCC641&SDZ160R&SPD1600&SPX1000&SPT1000, SONY-EVID3031, Vicon-Survey&2000, ZITEC-ZITECH, etc.							
Operating §	Systems				Windows X	P, Windows	2000, Linux			
Suppor		English, Sp	oanish, Jap		ch, Traditiona an, Finnish,				guese, Hebr	ew, Polish

#### **DVR Models**

# CHAPTER 2 Software Installation

Steps: 1. Insert DVR S/W. 2. Double-click "dvrsetup.exe".

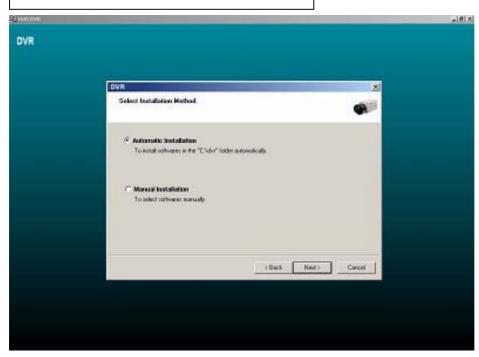




# 2.1 Automatic Installation

**2.1.1 Definition**: It is a method to install all the relevant software automatically. Select "Automatic Installation" at all times **unless only "DVR Client" is to be installed.** 

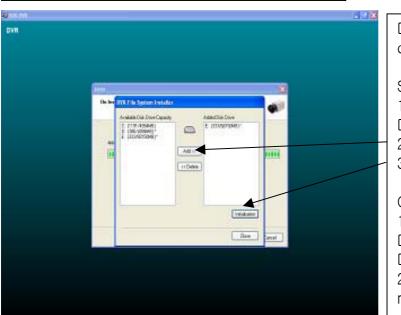
## 2.1.2 Installation Method Selection



## 2.1.3 Installing Drivers

LIME.			
R			
	DVR	<u>×</u>	
	On Installing		
	Installing Applications Coping Film.		
	-	Concert John L. Const L.	
		(D.es Instr	

#### 2.1.4 DVR File System Installation



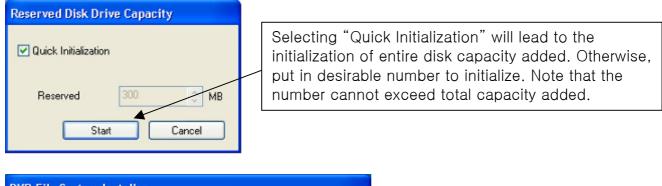
Definition: Occupying disk capacity to record data

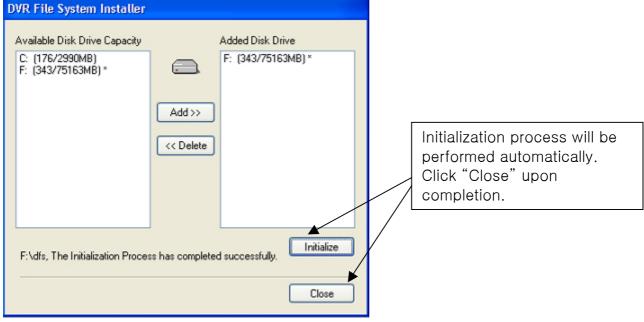
#### Steps

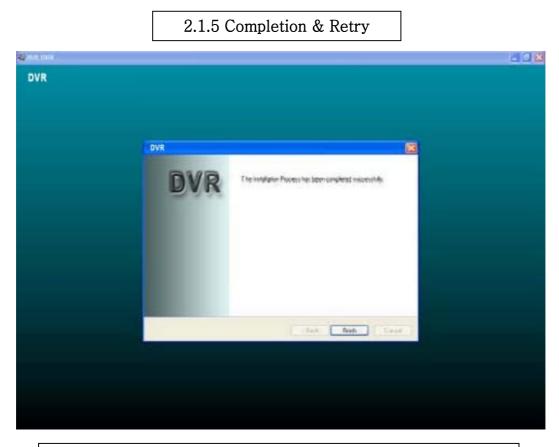
 Select drives from "Available Disk Drive Capacity"
 Click "Add".

3. Click "Initialization".

Caution 1. Be very careful not to add "C Drive", for it is used for O/S and DVR software. 2. HDD has to be initialized to record data.







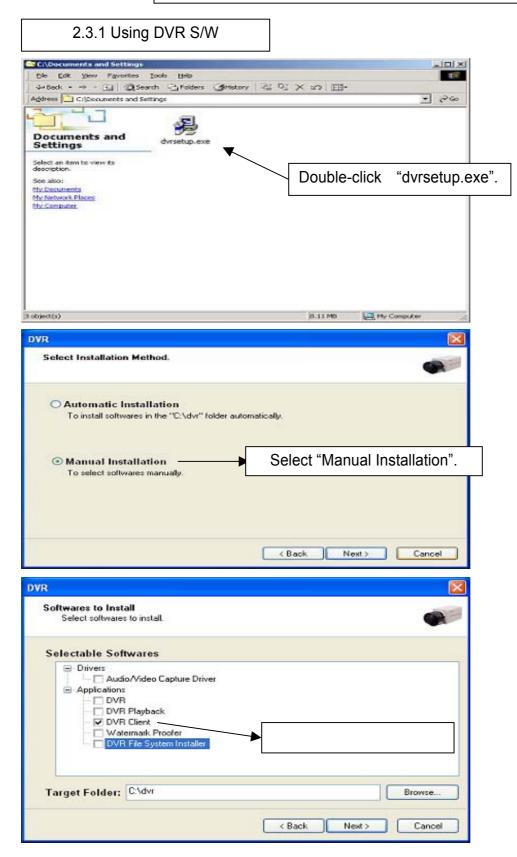
Retry the entire procedure if an error message is displayed.

# 2.2 Manual Installation

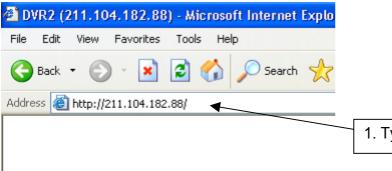
**2.2.1 Definition:** It is a method to install selected software manually. Select "Manual Installation" only in the case of "DVR Client" installation.

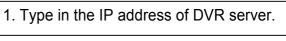
Select Installation Method.	
O Automatic Installation To install softwares in the "C:\dvr" folder automatically.	
Manual Installation     To select softwares manually.	
	Back Next > Cancel
2.2.2 Software Selection	
R	
Softwares to Install Select softwares to install	
Select softwares to install. Selectable Softwares	
Select softwares to install.  Selectable Softwares  Drivers  Audio/Video Capture Driver  Applications	Attention: Do Not Install "Audio/Vide Capture Driver" and "DVR" on client computer.
Select softwares to install.  Selectable Softwares  Drivers  Audio/Video Capture Driver  Applications  DVR  DVR  DVR  DVR Playback	Capture Driver" and "DVR" on client
Select softwares to install.  Selectable Softwares  Drivers  Audio/Video Capture Driver  Applications  VR	Capture Driver" and "DVR" on client
Select softwares to install.  Selectable Softwares  Contract of the second seco	Capture Driver" and "DVR" on <b>client</b> computer. Note: The rest of the procedure is the same

# 2.3 Remote Client Installation



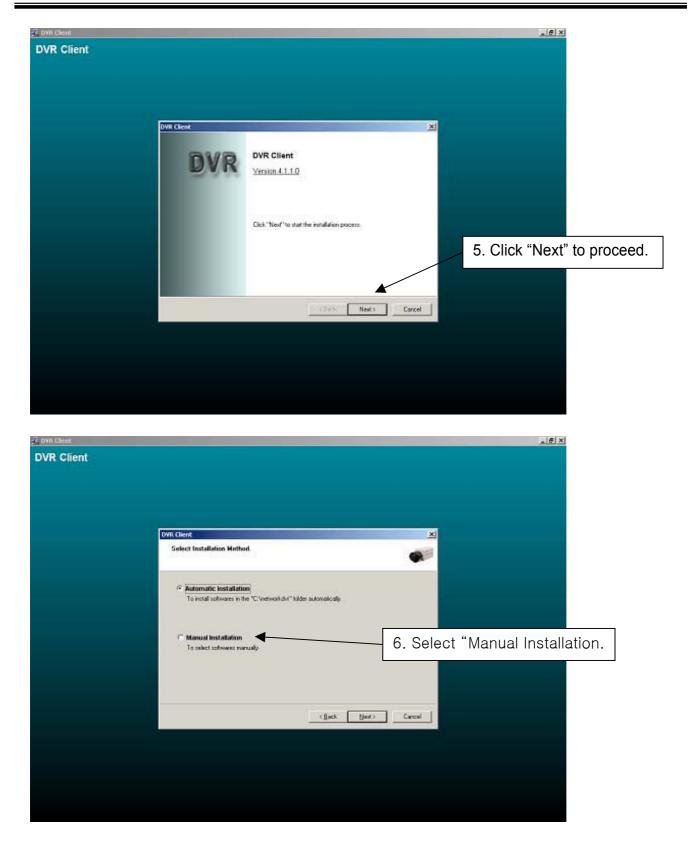
2.3.2 Using Web Browser





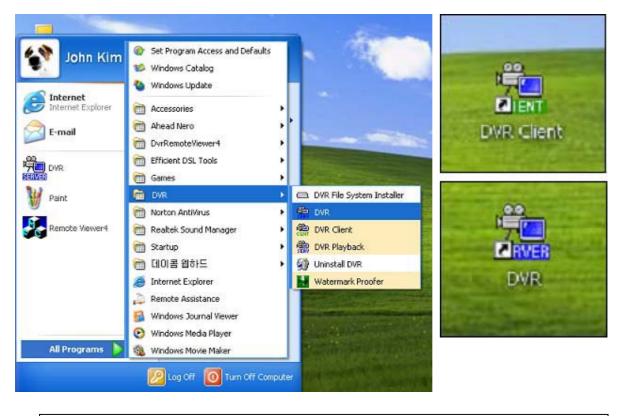
DVR2 (211.104.182.88)	
Login please	
Connection Speed: Auto Detect 💟 User ID :	2. Log in first before downloading Remote Client Program.
Password : Login	
Channel : camera1 💌	
Screen Split : no split	
Screen Size : 320 x 240 💌	
e-map Install Remote Client	





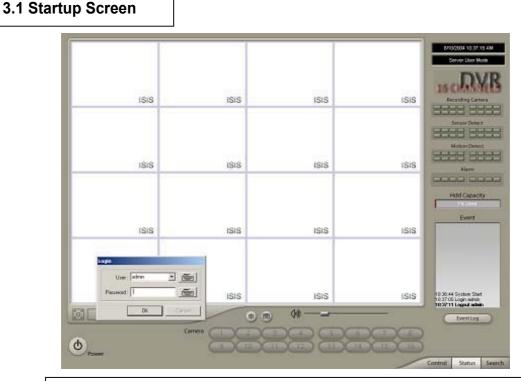
Softwares to Install Select softwares to install. Selectable Softwares	
Selectable Softwares	
Selectable Softwares	
Provide and a second seco	
Applications     DVR Client     VR Playback     Vatermark Proofer	
	7. Oliola "New#" to finish installation process
	7. Click "Next" to finish installation process.
Target Folder: C:\networkdvr	Browse
	×
	<back next=""> Cancel</back>
1	All and and a
	0.4 Uninetalletien
	2.4 Uninstallation
John Kim 🞯 Set Program Access and I	Defaults
Windows Catalog	Defaults
Windows Catalog	Defaults
Mindows Catalog	
Internet     Internet Explorer     Accessories	
John Kirm     Windows Catalog     Windows Update     Mindows Update     Accessories     E-mail	
John Kirn     Windows Catalog     Windows Update     Mindows Update     Accessories     Abead News	
John Kim       Sinderset         Internet       Sinderset         Internet       Accessories         E-mail       Mindows Catalog         Durkerset       Accessories         Durkerset       Durkerset	
John Kim       Sinderset         Internet       Sinderset         Internet       Accessories         E-mail       Mindows Catalog         Durkerset       Accessories         Durkerset       Durkerset	
John Kirm       Similar         Internet       Windows Catalog         Internet       Windows Update         Internet       Accessories         Internet       Accessories         Internet       DvrRemoteViewer+         Dvr       Efficient DSL Tools         Image: Dvr       Games	
JOINT KITM       Similar         Internet       Windows Catalog         Internet       Windows Update         Internet       Accessories         E-mail       Ahead Nero         DVR       Efficient DSL Tools         Pant       DVR	DVR File System Installer
JOINT KIT       S Windows Catalog         Internet       Windows Update         Internet       Accessories         E-mail       Ahead Nero         DVR       Efficient DSL Tools         Paint       Marton AntiVirus	DVR File System Installer
JOINT KIT       Similar         Internet       Windows Catalog         Internet       Mindows Update         Internet       Accessories         Internet       Accessories         Internet       DvR         Internet       DvR         Internet       Efficient DSL Tools         Internet       Internet	DVR File System Installer  M DVR  M DVR  M DVR  M DVR
John Kirm   Internet   Internet   Internet   Internet   Internet   Internet   E-mail   Image: DVR   DVR   Pant   Image: Remote Viewer4	DVR File System Installer
JOINT KIT       Similar         Internet       Windows Catalog         Internet       Mindows Update         Internet       Accessories         Internet       Accessories         Internet       DvR         Internet       DvR         Internet       Efficient DSL Tools         Internet       Internet	DVR File System Installer  M DVR  M DVR  M DVR  M DVR
John Kirm   Internet   Internet   Internet   Internet   Internet   Internet   E-mail   Image: DVR   DVR   Pant   Image: Remote Viewer4	DVR File System Installer
JOINT KIT       S Windows Catalog         Internet       Windows Update         Internet       Accessories         Internet       Accessories         Internet       DvrRemoteViewer4         DVR       Efficient DSL Tools         Pant       Image: CVR         Remote Viewer4       Image: CVR         Remote Viewer4       Image: CVR         Image: CVR       Image: CVR         Image: CVR <td><ul> <li>DVR File System Installer</li> <li>         のVR         の         の         の</li></ul></td>	<ul> <li>DVR File System Installer</li> <li>         のVR         の         の         の</li></ul>
John Kirm   Internet   Internet   Internet   Internet   Internet   E-mail   DvR   Pant   Remote Viewer4   Internet Sound Manager   Internet Explorer   Internet Viewer4   Internet Explorer   Internet Kound Manager   Internet Explorer	<ul> <li>DVR File System Installer</li> <li>DVR</li> <li>DVR</li> <li>DVR</li> <li>DVR</li> <li>DVR</li> <li>DVR</li> <li>DVR</li> <li>Urinstal DVR</li> <li>Urinstal DVR</li> <li>Watermark Proofer</li> </ul>
JOINT KIT       S Windows Catalog         Internet       Windows Update         Internet       Accessories         Internet       Accessories         Internet       DvrRemoteViewer4         DVR       Efficient DSL Tools         Pant       Image: CVR         Remote Viewer4       Image: CVR         Remote Viewer4       Image: CVR         Image: CVR       Image: CVR         Image: CVR <td>DVR File System Installer 例 DVR 例 DVR 例 DVR 例 DVR Client 例 DVR Playback 例 Uninstal DVR 例 Watermark Proofer</td>	DVR File System Installer 例 DVR 例 DVR 例 DVR 例 DVR Client 例 DVR Playback 例 Uninstal DVR 例 Watermark Proofer

# 2.5 Program Execution



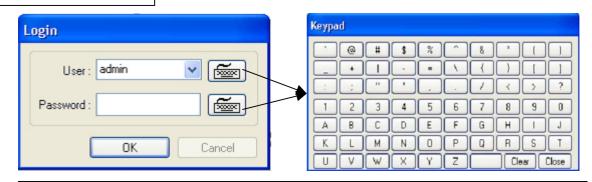
Find the icons on the desktop to execute "DVR" and "DVR Client". OR Find "DVR" under "All Programs".

# CHAPTER 3 Main System Application (Control)



The above screen will appear as DVR system starts.

#### 3.2 Login



The default values for User and Password are "admin" and "no password". Click "OK" to execute DVR system. To give "admin" a password and to create new users, certain configurations are required (Setup/User). Only "admin" and users with appropriate authorization have access to the Setup menu.

Note: Virtual keypad is available wherever typing is required.

### 3.3 Exit/Logout

<ul> <li>Exit</li> <li>Logout</li> </ul>	User : admin V Files
OK Cancel	OK Cancel

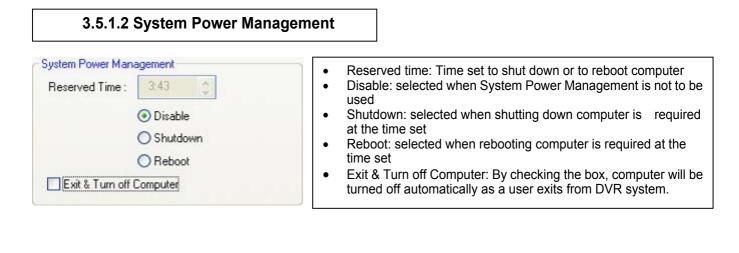
## 3.4 Control Screen

Camera1	Camera2	Camera3	Date/Time	6/9/2004 4:20:33 PM Server Admin Mode
			Sever Login Mode	ISGRYR
Camera5	Camera6	Camera7	Model Number	Adjust Brightmas
			Setup	C entrast Saturation
Camera9	Camera10	Camera11	Network	7 Hue Default
			Adjust	Zoom
Camera13	Camera14	Camera15	ΡΤΖ	Focus + Preset Touring
Camera Lay	outPanel E-Map	I-Phone	Volume Light	Speed
				0000
	Camera 1		5 6 7 8	AUTO
O Power	Power 9	10 11 12	13 14 15 16	Control Status Sean
	Camera Selection	Manual Output	Panel Control St	tatus Search

	3.5 Setup	]
3.5.1 System		
Setup		? 🔀
System Device Event Schedule Network I System Information Name : DVR System	On-screen Display Font Settings	
Admin. Name : (	Text Inserter Font Settings	Advanced
System Power Management Reserved Time : 16:47	Hard Disk Usage	
<ul> <li>Disable</li> <li>Shutdown</li> <li>Reboot</li> </ul>	Once	<ul> <li>Recycle</li> </ul>
Exit & Turn off Computer	Use I-Phone	Properties
Auto-switching Interval	Sec. Ve	rsion 4.1.0.0 (Built 2005.3.18)
E-map / TV-OUT E-map TV-OUT		Maintenance Log
		OK Cancel

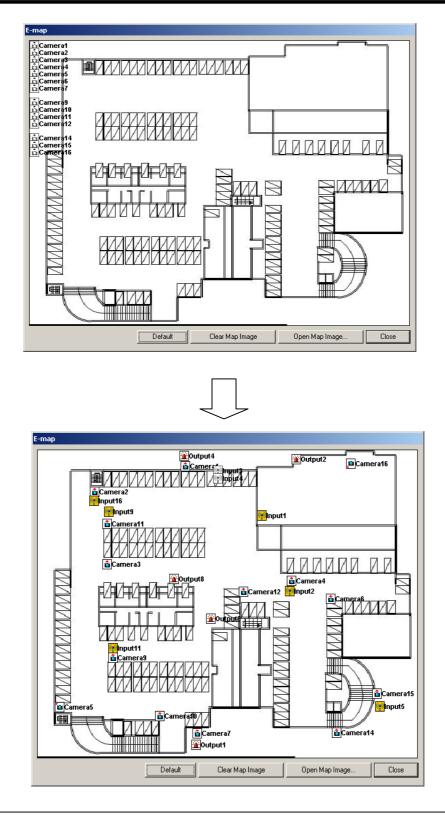


Create a DVR name and put in administrator information. They will be displayed on outgoing e-mails.

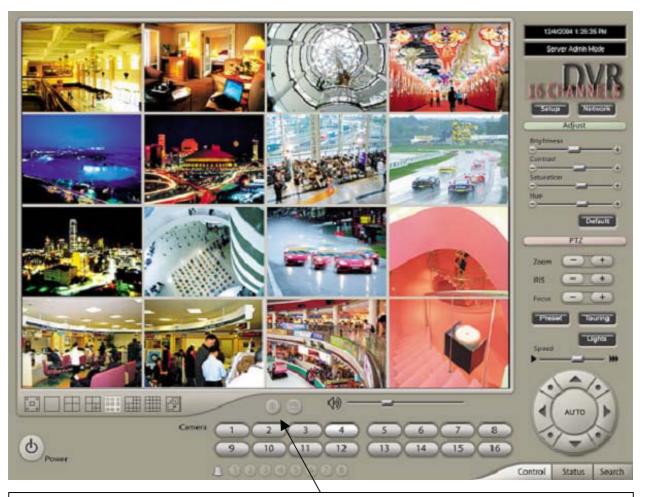


	3.5.1.3	Auto-switching Interva	al
⊂Auto-switc 1 Sec. ິ	hing Interv	a 10 10 Sec.	Auto-switching Interval is a function that allows Green Square around selected camera to move to the next one at the interval set. e.g.) Camera 1 -> 10 sec> Camera 2 ->10 sec> Camera 3
		3.5.1.4 E-map	
E-map / T	V-OUT — E-map	TV-OUT	
Open Map Imag Look in My Recent Documents Desktop My Documents	99		Emap
My Computer	File name: Files of type:	".ipg ♥ JPG Files (".jpg) ♥ Open as read-only	Open Cancel Default Clear Map Image Open Map Image Close

Click on the "E-map" button to design E-map. Click on "Open Map Image" to select an E-map image.

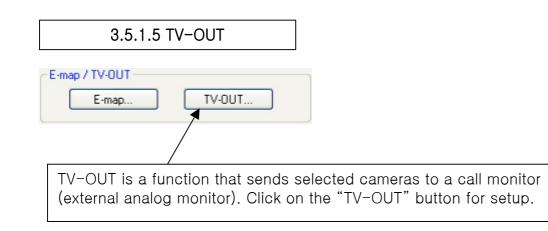


The above is a designed E-map sample. Drag mouse to position Camera/Input/Output and design E-map.



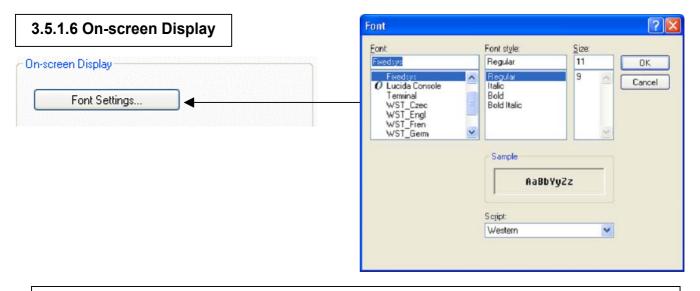
Click on the E-map button positioned next to the I-phone button to open E-map. White Camera: Not on Recording, Yellow Camera: On Recording,

- White Input/White Output: Not Activated
- Yellow Input/Yellow Output: Activated



	The Number of TV-Out Supported									
0403	0806S	1209S	1612S	0412	0812	1612	1624D	0824D	1648	1648D
1	2	3	4	1	1	1	2	2	2	3

TV-OUT         ?           TV-OUT 1         TV-OUT 2         TV-OUT 3	
Setup Options	The models such as 240FPS/240FPS and
Same as Server Screen Mode (Used for 480(ps Models Only)     Manual Channel Selection	480FPS/120FPS support 2 TV-OUTs. 480FPS/240FPS support 3 TV-OUTs and the rest of
Camera1 📉	the models support 1.
O Auto Channel Switching	Setup Options:     Same as Server Screen Mode
Channels Camera1 Camera2 Camera3 Camera4 Camera5 Switching Interval 1 Sec. 10 Sec. 10 Sec. ■ 21 ★	<ol> <li>Same as server screen mode         <ul> <li>(For 480FPS/120FPS only) - TV-OUT Monitor displays what's on DVR server.</li> <li>Manual Channel Selection - Channels are selected manually. Once "Manual Channel Selection" is selected, channels can also be selected manually on Control screen by placing mouse on camera picture and clicking the right mouse.</li> </ul> </li> <li>Auto Channel Switching - Selected channels rotate to display at the switching interval set.</li> <li>Switching Interval: The length of time to stay at one camera</li> </ol>

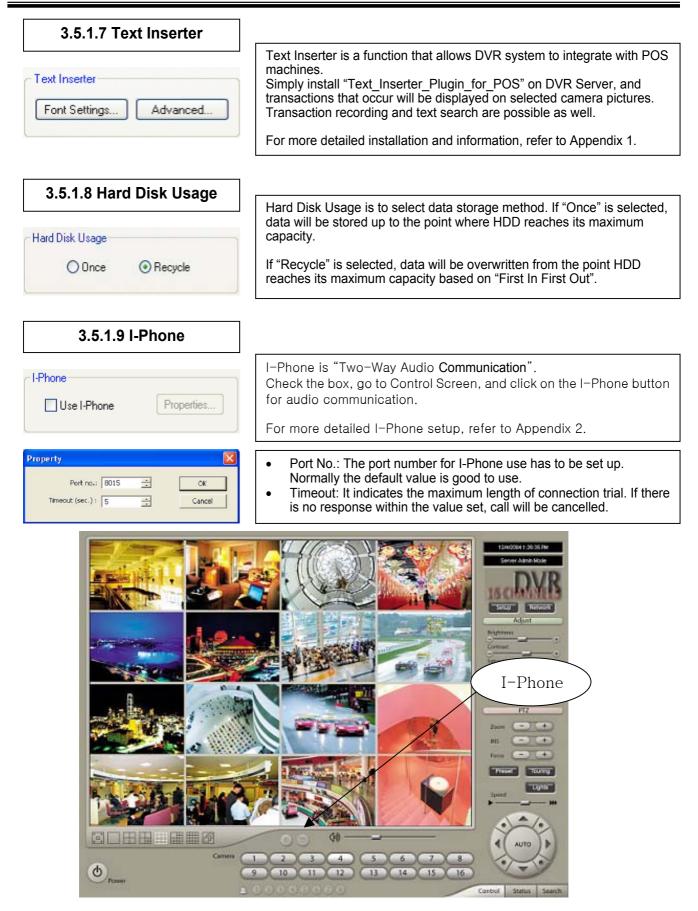


On a camera screen, you may click one right mouse to control OSD as bellows.

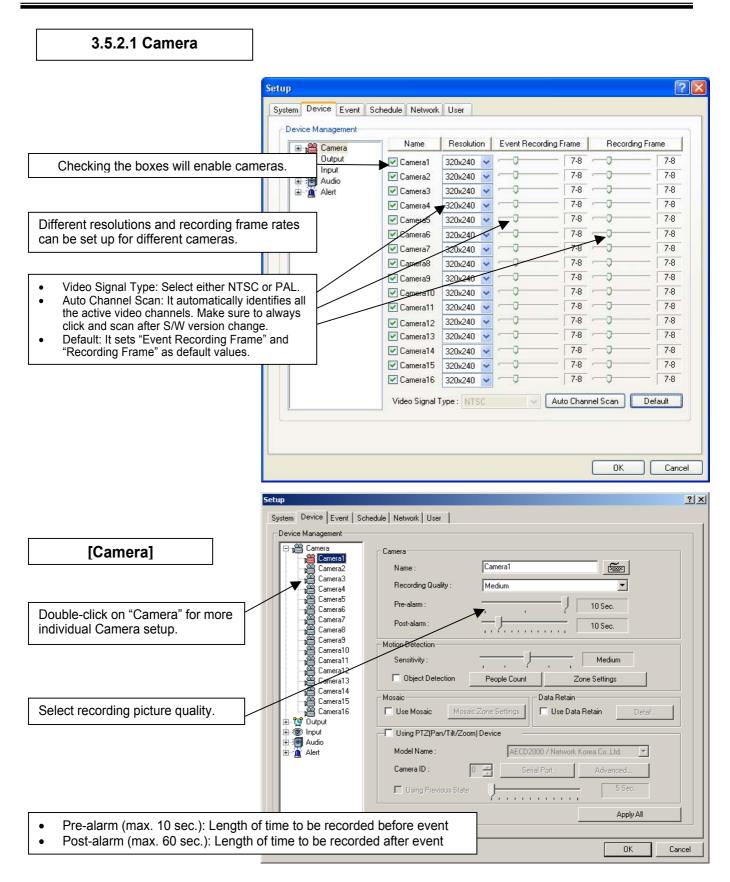
- Show Camera Names and Status: By checking it, camera names and status will be displayed on camera pictures.
- Show Motion Detection Blocks: By checking it, green motion detection blocks will be displayed on camera pictures when recording schedule is set as "M" (Setup/Schedule).
- Show Object Detection Blocks: By checking it, blue object detection blocks will be displayed on camera
  pictures.

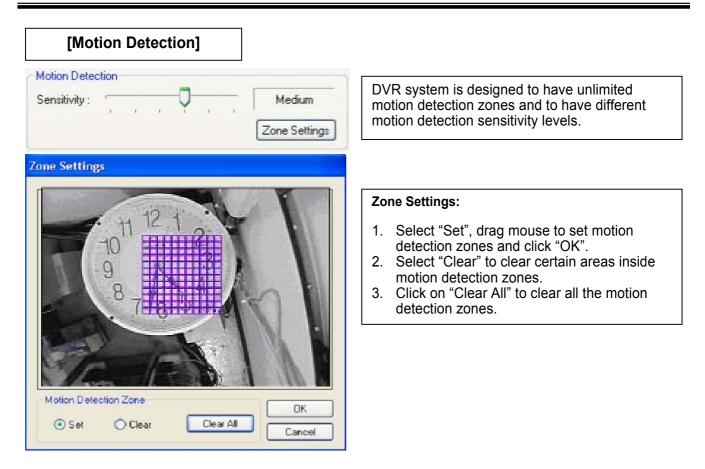


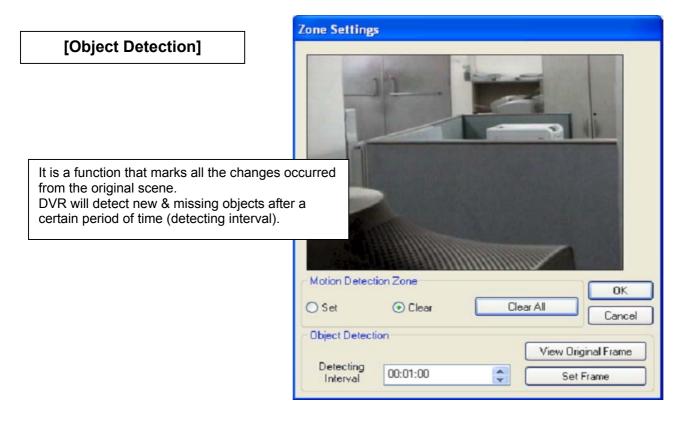
Note : One right mouse click can be a very useful tool. Manual TV-out and OSD setup can be done. Additionally, instant recording can start by one click.



3.5.1.10 Ver	sion Info.		
Version 4.1.0.0 (Built 2	2005.3.18)	<ul> <li>Version 4.1.1.0: version name</li> <li>Version 2005.03.18: built date</li> </ul>	
3.5.1.11 Maint	enance Log		
Maintenance Log		It is used to record and view maintenance history.	
For Help, press F1	ep Page 10 - Ros		
System Device Event S Device Management Device Management Camera Dutput Solution Dutput Solution Device Analos Device Analos Device Management Device Management Device Management	Name     Resolution       V Camera1     320x240       V Camera2     320x240       V Camera3     320x240       V Camera3     320x240       V Camera4     320x240       V Camera5     320x240       V Camera5     320x240	n Event Recording Frame Recording Frame	ries
	✓ Camera7         320x240         ✓           ✓ Camera8         320x240         ✓           ✓ Camera9         320x240         ✓           ✓ Camera10         320x240         ✓           ✓ Camera11         320x240         ✓	Camera     Audio     Output     Input     All devices in each category can be set up on one same parts	age.
	Camera11       320x240         Camera12       320x240         Camera13       320x240         Camera14       320x240         Camera15       320x240         Camera16       320x240         Video Signal Type : NTSC	7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	
		OK Cancel	









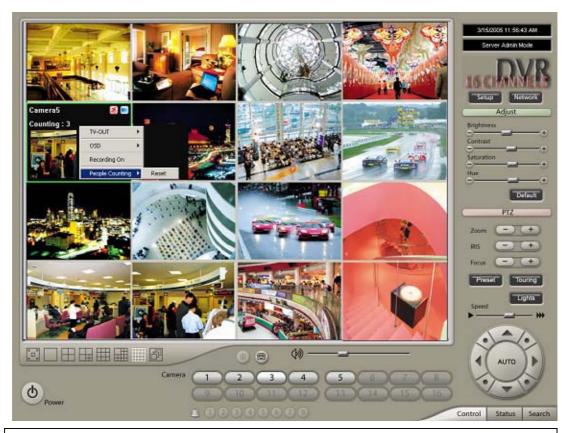
**Object Detection Blocks** 

Click the right mouse and select "Clear Object Detection Blocks" to remove all the blocks.

#### How to Set up:

- Tick the "Object Detection" box and click on "Zone Settings".
- Drag the mouse to select object detection zone (same as "Motion Detection").
- Click on the "Set Frame" button to select original (default) image.
- Go to "Detection Interval" and determine when to mark new object after its pause.
- Go to "Setup/Schedule" and select "M"
- Go to the "Control Screen" and find the red-squared "Object Detection" symbol.
- One click on the "View Original Frame" button will display original image set.
- Click it again to reactivate the "Set Frame" button.

[People Counter]	
It is a function that counts pe	eople coming in and out of a certain place.
	Count Interval Use People Count Count Interval: 5 OK Cancel

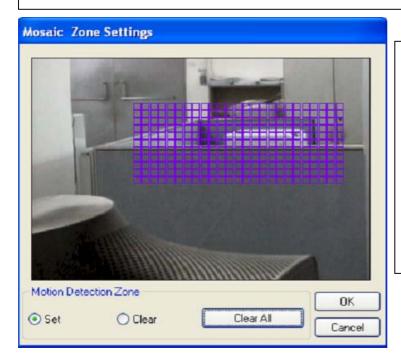


#### How to Set up:

- 1. Click on the "People Count" button.
- 2. Tick the "Use People Count" box.
- 3. Set "Count Interval".
- 4. Go to "Zone Settings and set "People Counting Zone".
- 5. Go to Setup/Schedule and select "M".
- 6. Go to the "Control Screen" and find the word, "Counting".
- Caution: "Object Detection" and "People Counter" cannot be used simultaneously.
- Note: DVR will count the number from 0 again by selecting "Reset".

#### [Mosaic]

It is a function that veils restricted areas to keep regular users uninformed.



#### How to Set up:

- Tick the "Use Mosaic" box.
- Click on "Mosaic Zone Settings".
- Set "Mosaic Zone".
- Go to the "Control Screen" and find veiled areas.

#### Note

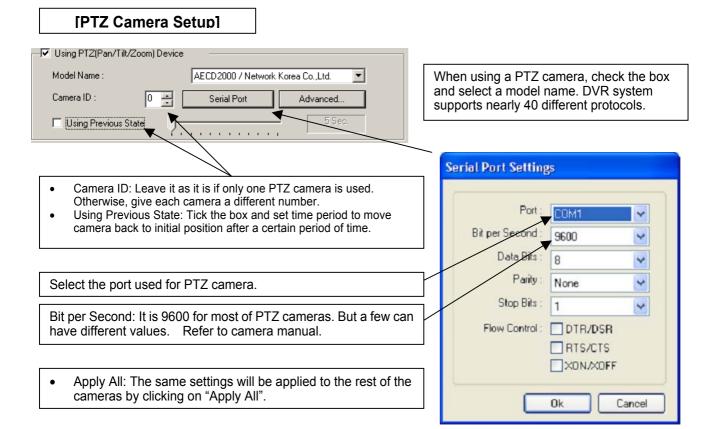
- 1. While using Mosaic, "Save" or "Print" cannot be performed.
- 2. To see unveiled area, logging in as "Admin" or "Admin Mode" is required.

### [Data Retain]

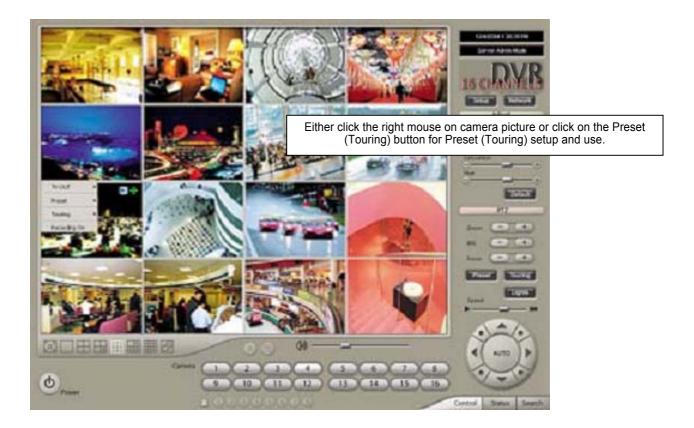
It is a function that retains data only for the period set. For example, if 10 days is set, DVR will delete all previous data before 10 days regardless of the capacity remaining in HDD.

E-ma Camera	Comment		
Camera1	Camera		
Camera2	Name :	Camera1	
Camera4	Recording Quality :	Medium	•
Camera5	Pre-alarm :	Ţ	10 Sec.
Camera7	Post-alarm :	<u> </u>	10 Sec.
Camera9	Motion Detection		
Camera11	Data Retain		× Medium
Camera12			
Camera13	It's Possible To	Lose Data. Are You Going to Contin	nue? Settings
Camera15			
Camera16	Yes	No	ain Detail.
i∃-"ថ្ថ" Output i∃-®o Input			
±-⊛ Audio	Using PTZ(Pan/Tilt/Zo	omj Device	
	Model Name :	AECD 2000 / Network	k Korea Co.,Ltd. 🗾 💌
庄 🚊 Alert	Camera ID :	0 Serial Port	Advanced
H- Mart			
⊞ <u>u</u> , Alen	🔲 Using Previous State	,,,,,,,	5 Sec.

Data Retain	Detail
Data Retain	
Day: 💈	-
ОК	Cancel

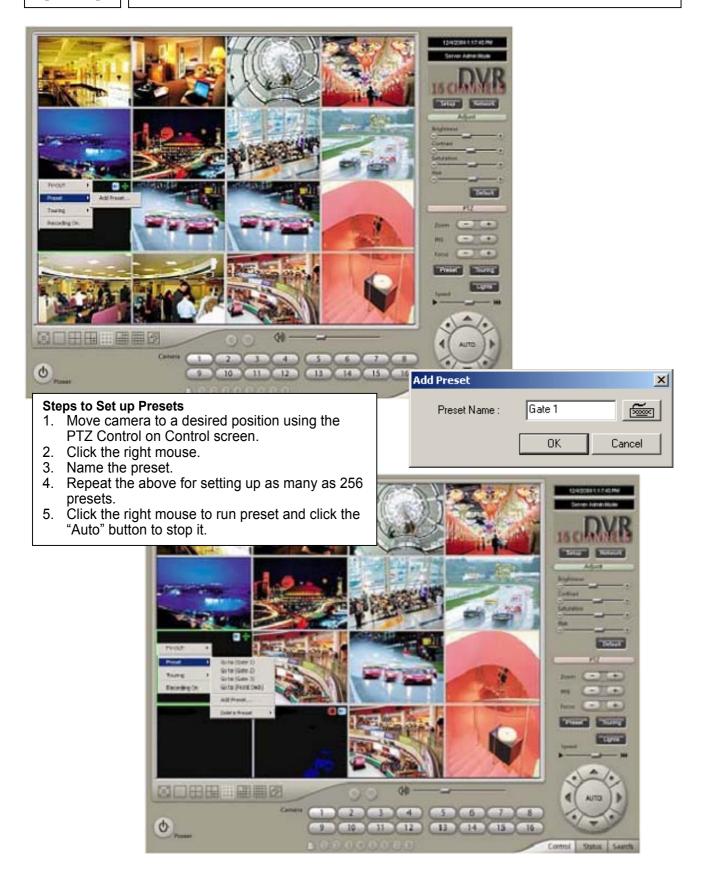


## [Preset & Touring]



[Preset]

"Preset" is a function that enables a camera to move from one position to another automatically.



	[Touring	9]		
Ad	d Tour		×	
	Tour Name :	Tour	<u></u>	
Г	Create a Tour			
	Preset Name	Dwell (sec.)	Speed	
				function that enables a group esets to work repeatedly.
			Id Delete	
			DK Cancel	

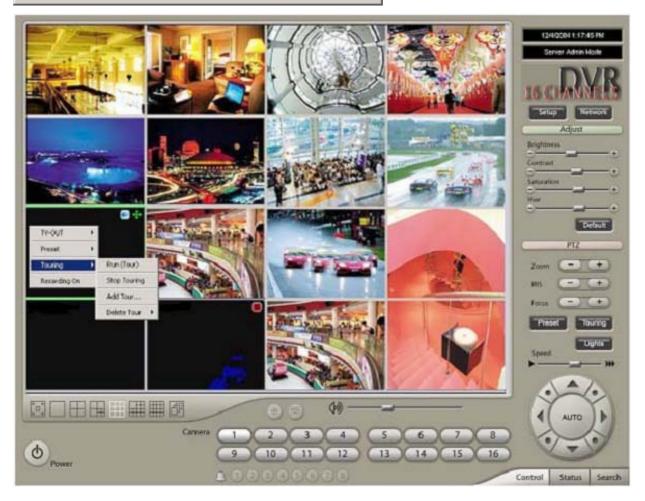
#### Steps to Setup a Tour

- 1. Click the right mouse.
- 2. Name the tour.
- 3. Click on "Add".
- Select a preset.
   Click "OK".
- 6. Repeat the above to have more than 1 preset in the tour.
- 7. Click the right mouse to run the tour.

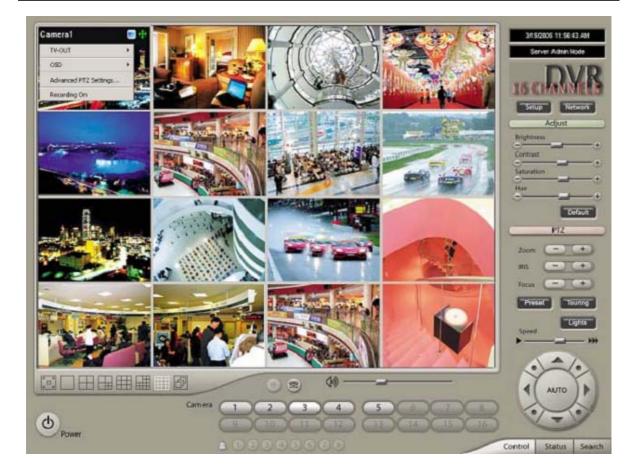
Add Preset	X
Select a Preset :	Front Desk
Dwell :	10 * (Sec.)
Speed	
· · · ·	
Slow	Fast
	OK Cancel

- Dwell: The length of time that camera will pause before moving to the next preset. •
- Speed: Moving speed for selected preset.

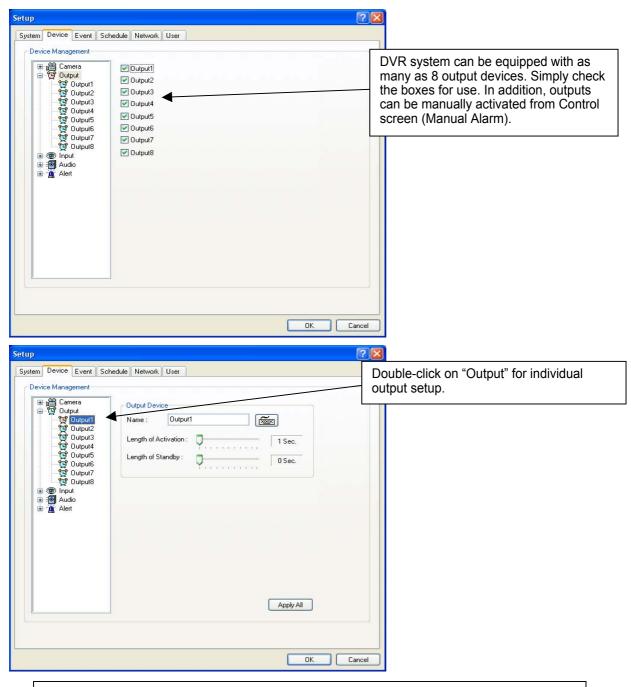
Ado	l Tour			×
_	Tour Name : Create a Tour	Tour		<u></u>
	Preset Name	Dwell (sec.)	Speed	H I
	Front Desk	10	3	
	Gate 1	10		
	Gate 2	10	3 3 3	
	Gate 3	10	3	
	1			
			Add	Delete
			OK	Cancel



Advanced PTZ setup can be done by one right mouse click. Make sure that the PTZ camera to set up supports advanced PTZ control functions first.



#### 3.5.2.2 Output Device



- Name: Output device name.
- Length of Activation: The length of output activation (1-60 sec.).
- Length of Standby: The length of output deactivation until reactivation (0-60 sec.).
- Apply All: The same settings will be applied to the rest of the output devices.

## 3.5.2.3 Input Device

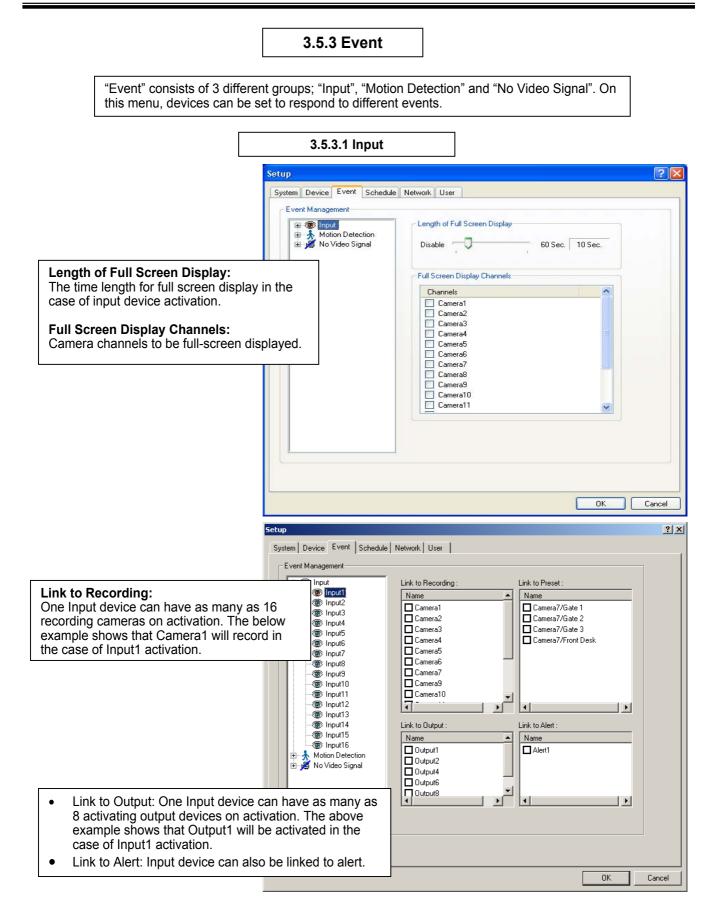
ıp		
stem Device Event So	chedule Network User	
- Device Management		
<ul> <li>         The Camera         <ul> <li></li></ul></li></ul>	V Input1 V Input2 V Input3 V Input4 V Input5 V Input6 V Input7 V Input8 V Input9 V Input10 V Input11 V Input12	DVR system can be equipped with as many as 16 input devices. Simply check the boxes for use.
	Input13     Input14     Input15     Input16	
ир		
Device Management	hedule Network User	
-@input7 -@input8 -@input9 -@input10 -@input11 -@input12 -@input13 -@input14 -@input15		Each and every input can be tuned independently <b>Signal Types:</b> NO: (+) & (-) detached normally NC: (+) & (-) attached normally
(input16		
		OK Cancel

## 3.5.2.4 Audio

Setup	
System Device Event Sch	edule Network User
- Device Management	
t∰ Camera     the second	Audio1 Camera1 V Audio2 Camera3 V Audio3 Camera5 V Audio4 Camera12 V
	DVR system is equipped with as many as 8 audio channels. Simply connect cameras to audio channels for use, and audio recording will be completed as chosen. (e.g.) The above selections indicate that Audio2 will record Camera 3, Audio3 will record Camera 5, etc.
	OK Cancel
Setup System Device Event Sch	edule Network User
Covice Management Camera Camera Covice Management Camera Covice Management Camera Covice Management Camera Ca	Audio           Name :         Audio1           Input Gain :         1
	Input Gain (1-15): It is audio level control similar to volume control.
	OK Cancel

	3.5.2.5 Alert	
Setup		-
System Device Event Schedule Network User		
	) Speaker + Buzzer	
Alert is the b	m is equipped with 1 alert device. weep inside the system that sounds in t and select an alert mode.	he case of event. Check the
	OK Cancel	

Setup		? 🔀	
System Device Event Sch Device Management Camera Coutput Camera Coutput Camera	edule Network User	10 Sec.	
	Length of Activ	vation: The length of alert	activation (1-60 sec.).
		OK Cancel	



3.5.3.2 Motion Detection

The same identical concepts and methods as "Input" are applied to "Motion Detection".

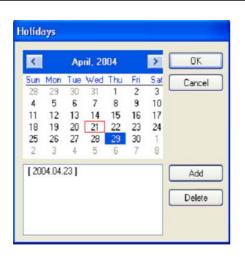
tup	
System Device Event Sched	dule Network User
Event Management	
Motion Detection     Camera1     Camera2	Length of Full Screen Display Disable 60 Sec. 10 Sec.
Camera3 Camera5 Camera5 Camera6 Camera7 Camera7 Camera7 Camera10 Camera10 Camera11 Camera12 Camera13 Camera14 Camera15 Camera16 No Video Signal	Full Screen Display Channels         Channels         Camera1         Camera2         Camera3         Camera4         Camera5         Camera6         Camera7         Camera9         Camera10         Camera11
	OK Cancel
up	
ystem Device Event Schedule	a Network User
ystem Device Event Schedule	a Network User
ystem Device Event Schedule Event Management	e Network User Link to Preset :
ystem Device Event Schedule Event Management Tom The Motion Detection	e Network User Link to Preset :
ystem Device Event Schedule Event Management	e Network User Link to Preset :
Vertex and a constraint of the second	e Network User Link to Recording : Link to Preset : Name ☐ Camera1 ☐ Camera2
iystem Device Event Schedule	e Network User Link to Preset :
Vertex and a constraint of the second	e Network User Link to Preset : Name  Camera1 Camera2 Camera3 Camera4 Camera5 Link to Preset :  Name Camera7/Gate 1 Camera7/Gate 2 Camera7/Gate 3 Camera7/Front Desk
isystem Device Event Schedule	
isystem Device Event Schedule	■       Network       User         Link to Recording :       Link to Preset :         Name       □         ☑ Camera1       □         □ Camera2       □         □ Camera3       □         □ Camera5       □         □ Camera6       □
ivstem Device Event Schedule	
isystem Device Event Schedule	■ Network User         Link to Recording :         Name         ✓ Camera1         Camera2         Camera3         Camera4         Camera5         Camera6         Camera7         Camera10
isystem Device Event Schedule	Network User Link to Recording: Link to Preset: Name Camera1 Camera2 Camera3 Camera4 Camera4 Camera5 Camera6 Camera6 Camera7 Camera7 Camera10 Camera10 Camera10 Camera10
iystem Device Event Schedule	Network User Link to Recording: Link to Preset:   Name   Camera1   Camera2   Camera3   Camera4   Camera5   Camera6   Camera7   Camera7   Camera10   Link to Output:   Link to Alett:
iystem Device Event Schedule	Network User     Link to Recording:     Name     Camera1   Camera1   Camera2   Camera3   Camera3   Camera4   Camera5   Camera6   Camera7   Camera7   Camera10     Link to Output:     Link to Output:     Name
isystem Device Event Schedule	Network User   Link to Recording:     Name   Camera1   Camera1   Camera2   Camera3   Camera4   Camera5   Camera7/Gate 3   Camera6   Camera7   Camera7   Camera7   Link to Output:   Link to Output1   Link to Alert:   Name
isystem Device Event Schedule	Network User Link to Recording: Link to Preset: Name Camera1 Camera2 Camera2 Camera3 Camera4 Camera5 Camera6 Camera6 Camera7/Gate 1 Camera7/Gate 2 Camera7/Gate 3 Camera7/Gate 3 Camera7/Cate 4 Camera7/Cate 4 Camera7/Cate 3 Camera7/Cate 3 Camera7/Cate 4 Camera7/Cate 4 Camera7/Cate 4 Camera7/Cate 3 Camera7/Cate 4 Camera7/Cate 4<
isystem Device Event Schedule	Network User   Link to Recording:   Link to Preset :   Name   Camera1   Camera1   Camera2   Camera3   Camera4   Camera5   Camera6   Camera7   Camera10   Link to Output :   Link to Output 1   Output4
isystem Device Event Schedule	Network User   Link to Recording:     Name   Camera1   Camera2   Camera3   Camera4   Camera5   Camera6   Camera7/Gate 3   Camera6   Camera7   Camera7   Camera7   Link to Output:
isystem Device Event Schedule	Network User   Link to Recording:   Link to Preset :   Name   Camera1   Camera1   Camera2   Camera3   Camera4   Camera5   Camera6   Camera7   Camera10   Link to Output :   Link to Output 1   Output4
isystem Device Event Schedule	Network User   Link to Recording:   Link to Preset:   Name   Camera1   Camera2   Camera3   Camera4   Camera6   Camera7   Camera7   Camera10   Camera10   Link to Output:   Link to Alert:   Name   Output1   Output4   Output4   Output8
isystem Device Event Schedule	Network User   Link to Recording:     Name   Camera1   Camera2   Camera3   Camera4   Camera5   Camera6   Camera7/Gate 3   Camera6   Camera7   Camera7   Camera7   Link to Output:
isystem Device Event Schedule	Network User   Link to Recording:   Link to Preset:   Name   Camera1   Camera2   Camera3   Camera4   Camera6   Camera7   Camera7   Camera10   Camera10   Link to Output:   Link to Alert:   Name   Output1   Output4   Output4   Output8
ystem Device Event Schedule	Network User   Link to Recording:   Link to Preset:   Name   Camera1   Camera2   Camera3   Camera4   Camera6   Camera7   Camera7   Camera10   Camera10   Link to Output:   Link to Alert:   Name   Output1   Output4   Output4   Output8

	3.5.3.3 No Video Sig	gnal	
Setup			? ×
The same identical cor	Link to Recording : Name Camera2 Camera3 Camera4 Camera5 Camera6 Camera7 Camera10 Camera11 Unk to Output : Name Output1 Output1 Output4 Output6 Output8 Unbut8 Unbut8 Output8		
there is a signal cut in	t Camera2 will take over a		
		ОК	ancel

### 3.5.4 Schedule

"Schedule" is a place where the different activities of different devices are determined.

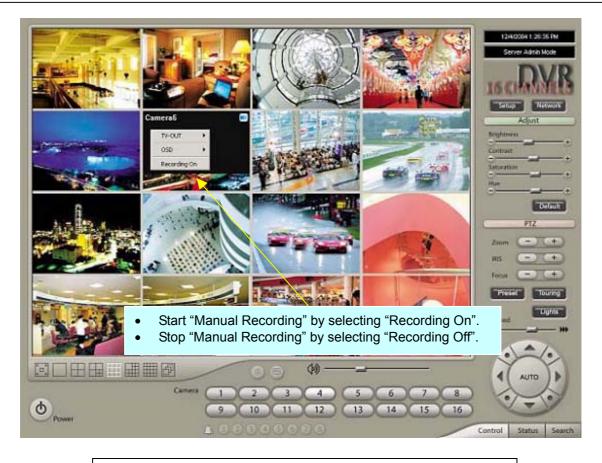
Name: C	ame	ra					*																														
Camera1				C	Car	mera	a5			0	Cam	neras	9			0	Ca	me	ra13	3						L											
🔿 Camera2	2			C	Car	mera	a6			0	Cam	nera10		🔘 Camera1			ra14	4						L													
Camera3	3			C	Car	mera	a7			0	Carr	nera"	11			0	Ca	me	ra15	5						L											
Camera4	ŧ			C	Car	mera	98			0	Cam	nera'	12			0	Ca	mei	ra16	6						L											
Schedule																										L											
	00	01	02	03	04	05	06 0	07 0	8 09	9 10	11	12	13	14 1	15 1	6 1	7	18	19	20	21	22	3			L						_				1	
Sun	R	R	R	R	R	R	BF	R F	B	B	R	R	R	B	RF	3 1	3	R	R	R	R	в	3			L			3	3.5.4	.1 (	Car	nei	a			
Mon	R	R	R	R	R	R	RF	R F	R B	R	R	в	R	B	RF	R F	3	R	R	R	R	B	1		_												
Tue							RF												F	F	Ead	۰h	ram	nera	can	ı h	ave	ih د	ffere	nt n	ern	rdir	na (	ontio	ns.		
Wed							RF												F					d rec												cor	lin
Thu	-				_		RF	-	-	-	-			_	_	_		-	F	э		iet	JIEC	uieu	oru		y D	y ui	ne c	x ua	yа	nu a	3010	SCUV	ere	CON	1111
Fri			100				RF		-	-	-					-	-					_	_														
Sat	-				_	_	R F	_		_				_			_	-		•	,			ecord	•												
Holidays	R	R	R	R	R	R	RF	R F	R	R	R	R	R	R I	RF	7 F	7	R	F	٠	,	Ν	: Re	ecor	ding	g c	only	on	mo	tion	det	ecti	ion				
Schedule M	lode	: F	: F	leco	rding	,														•	,	S	Re	ecord	lina	Ó	nlv	on	sen	sor	det	ecti	on				
							sens	or de	etect	ion.														ecord										me	reci	ordi	n
		N	1: F	eco		] on	sens													•				or/m						unu	mg	nei	ne		100	Ji un	9
		Ŀ	I: H	ighe	r fra	mer	ecor	ding	on s	enso	or/me	otior	n del	ectio	on.		_					5	:1150	01/111	JUU		ueu	ECU									



The holiday recording schedule set at the bottom of the "Schedule" table will be applied to selected dates.

## [Manual (Instant) Recording]

It is a function that enables users to react on an emergency situation properly by making DVR to start recording immediately.



#### Note:

- 1. The purple icon indicates that it is on "Manual Recording".
- 2. Only 'Admin' can use "Manual recording".

3.5.4.2 Input

Device			_																					
Name :	Input	ź					1	~																
<li>Input1</li>				C	) Inp	out5					0	Inpu	ut9				0	) Ir	nput	13				
O Input2				C	Inc	out6					0	Inpu	.ut10				0	DIr	nout	14				
O Input3						out7					-	Inpu						Dir						
O Input4				C	Inc	out8					0	Inpu	ut12				0	) Ir	Inut	16				
Schedule				~		2020					~		0.045				-							
	00	01	02	03	04	05	00	07	no	na	10	11	12	12	14	15	10	17	10	10	20	21	22	23
Sun	00	0	02	03	04	0.5	00	07	00	03	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holidays	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			1				100.200		-		100.20				1000								100.20	
Schedule I	Mode		D: E D: E	10.46	1. C. S.																			~
			< D																					

3.5.4.3 Schedule

Name: C	utpu	at						~																
Output1				C	0	Itpul	5																	
🔘 Output2				۲	0	Itpul	6																	
O Output3				C	0	Itpul	t7																	
O Output4				C	0	itpul	8																	
chedule																								=
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holidays	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Schedule M	ode	· Fr	D: E	nah	le																		-	~
		0	D: Er	nabl	e																			
		Þ	< Di	isab	le																			

DVR Server Supported Netv	vork : TCP/IP		Web Server Port No. : 8		
Port	No. : 9091 📑	Details	, Web Login Required	_	
Tim	eout : 180		Central Station		
Maximum U	sers: 10	÷	Report to Server on Ex	Properties	
			– E-mail		
	Quality: Medium	<b>•</b>	🔲 Send E-mail on Event		
Bandwidth :	ADSL (384K bps)	•		Properties	
			Dial Alarm Call on Event		
				Properties	

Г

٦

	DVR Server		
3.5.5.1 <b>DVR</b> Server	Supported Network :	TCP/IP	*
	Port No. :	9091 🛟 🕻	Details
	Timeout :	180	\$
	Maximum Users :	10	\$

#### Supported Network:

- 1. TCP/IP Connecting to DVR Server from Client using LAN or DSL
- 2. PSTN Connecting to DVR Server from Client using PSTN or ISDN modem
- 3. None Not allowed to connect to DVR Server remotely
- Port No.: The default port number is 9091.
- Timeout: The time length of trials to connect to DVR Server from Client
- Maximum Users: The maximum number of users that can be logged in remotely.
- Details: It shows all the port numbers that are available to use.

<ul> <li>Transmitted Video Quality: Medium</li> <li>Bandwidth: ADSL (384K bps)</li> <li>Transmitted Video Quality: Video quality to be transmitted to Client.</li> <li>As a reminder, the higher video quality gets, the slower network transmission speed becomes. Therefore, it is often recommended to select low video quality when using "Narrowband".</li> <li>Bandwidth: Make sure to select the right bandwidth to have the right network performance.</li> </ul>
---

Note: DVR will automatically appoint a proper IP address to router. No router setup required.

3.5.5.2 Web Server	<ul> <li>Port No.: Fixed HTTP Port No.</li> <li>Web Login Required: If the box is checked, login is required when connecting to DVR server using web browser. If the box is NOT checked, automatic login as "anonymous" will be done.</li> </ul>
3.5.5.3 Central Station Central Station ✓ Report to Server on Event Properties	<ul> <li>"Central Station" is a function that enables Client with static IP to manage multi DVR sites. Check the box and click on "Properties" for setup.</li> <li>* Note: "DVR Manager" must be installed on Central Station Server (Client). For more details, refer to Appendix 3.</li> </ul>
	Central Station Server Information IP Address : Port No. : 9100 Default
	Reported Events OK Cancel

Reported Events	
Choose Events to Send	
System Start	Settings Changed
Normal Shutdown     Logout	Disk Full Choose events to report to Central Station server and set reporting time period.
Motion Detection	Output     Alert
Abnormal Shutdown	No Video Signal
Scheduled Report	To: 0:00
	OK Cancel
3.5.5.4 E-mail E-mail Send E-mail on Event Properties	E-mail is a function that enables DVR system to send out e-mails when selected events occur. Check the box and click on "Properties" for setup.
Note: Some e-mail service may require authentication for ID and PW.	Mail Server Requires Authentication Authentication Settings
	E-mail From (E) :
Make sure to put in the right IP address server. Then, click on "Reported Events" setup. The "Reported Events" menu is the sam	of SMTP " for more To (I):
01-1:	Subject (S) : Su

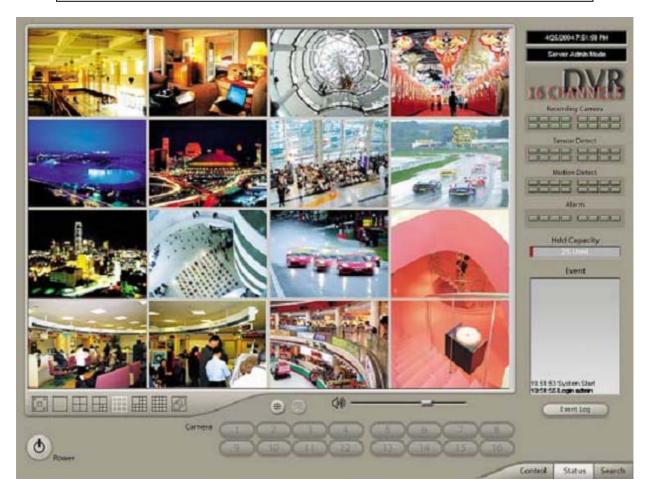
Dial Alarm Call on Event Properti	to call out on se	function that enables DVR syste lected events. Check the box and ties" for setup.
Dial Alarm	X	Î.
Phone No. :	function work. Type in p	istalled inside DVR system to make to ohone (mobile) number to report. Clic same setup as Central Station) for m
Timeout : 60	(Sec.)	
Reported Events	OK Cancel	
Setup	3.5.6 User	-
	3.5.6 User	
System Device Event Sched User Management List :		Add Delete Modify Apply Control Level
System Device Event Sched User Management List : admin anonymous	iule Network User	Add Delete Modify Apply Control Level d or modified with different rol levels.
System Device Event Sched User Management List : admin anonymous	Users can be added, delete authorized access and cont	Add Delete Modify Apply Control Level d or modified with different rol levels.

п

User Settings		
User: 9	uest	
Password :		Accessible Channels Channels
Retype Password :		Camera1 Camera2
Authorized Access		Camera3
🔄 Admin Mode	📃 Manual Output	Camera4
Color Adjustment	PTZ	
🗹 Search	🗹 Save Image	
Print	📃 Backup	
💌 Event Log	Network	
Multi-access	🗹 Audio	Select All
		OK Cancel

- Authorized Access: Checked functions will be allowed to access remotely.
- Accessible Channels: Checked channels will be allow to view remotely.
- Control Level: The lowest number will be allowed to have the first priority to set up, control, etc remotely.
- Admin Mode: A user who can go into the setup and program (given the same authorization as "Admin"). Only ONE user with "Admin Mode" can log in remotely.
- Network: If checked, remote access authorization will be given.
- Multi-access: If checked, multi-users with the same user name can log in remotely at the same time.

# CHAPTER 4 View Log Application (Status)

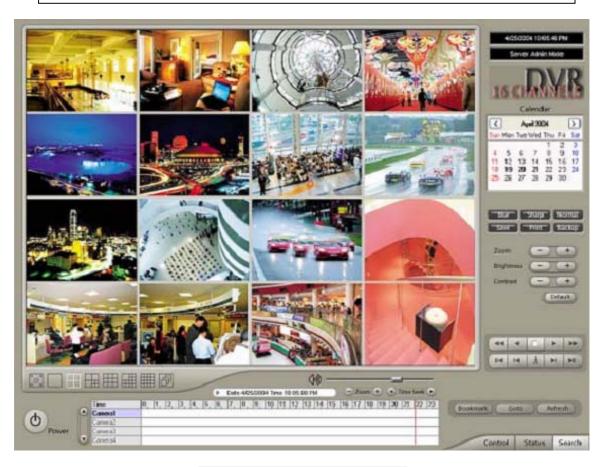


## 4.1 Screen Features

- Recording Camera: It shows recording status. Sensor Detection: It shows sensor detection •
- status.
- Motion Detection: It shows motion detection • status.
- Alarm: It shows alarm activation status. •
- HDD Capacity: It shows HDD capacity used for ٠ recording.
- Event: It shows events occurred. .
- Event Log: It shows all the previous events occurred • by date.

List         List           List         List           11:17:51 System Start           11:17:52 Login admin           11:13:22 Login admin           11:33:41 Login admin           11:33:41 Login admin           11:34:46 Logout admin           11:35:05 Login admin		<ul> <li>bold nu</li> <li>List: All be show</li> <li>Delete will be of the selecte</li> <li>Delete: selecte</li> <li>Refresher</li> <li>Network Log Network</li> </ul>	mbers. events fo wn. All: If click deleted. If clicked, d date will n: If clicked	r a certain se ed, all the pre	be marked in lected date will evious records ints for a certain be updated.
Network Client Log: Remote login records will be a DVR server.	OK Cance		35:6	192.168.0.243	anonymous

# **CHAPTER 5** Playback Application (Search)



# 5.1 Search Features 1

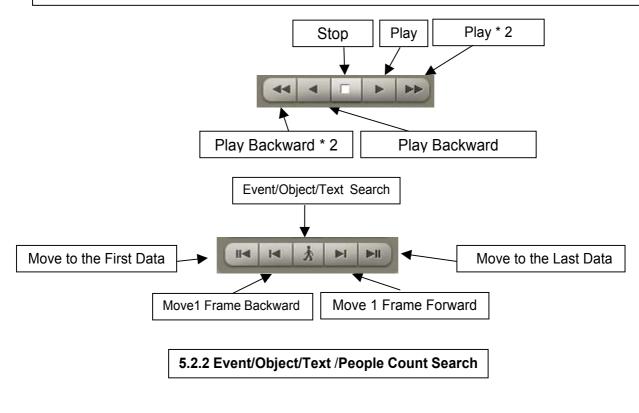
- Calendar: All dates with recorded data will be marked in bold numbers.
- Blur/Sharp/Normal: Buttons to adjust sharpness of image
- Zoom: Buttons to zoom in/out
- Brightness: buttons to adjust brightness
- Contrast: buttons to adjust contrast
- Default: Default for Zoom/Brightness/Contrast

5.2 Se	earo	ch Fea	tures 2	5.2	2.1 Playb	ack		
	38	∎ Ⅲ 8	P	-	Date: 1/26/2004 T	(me:12:43:00 PM		+ Time Seek •
<b>b</b>	1 martin	Time DOOR Camera 2	11	. [12	13		15	16
Power		Camera 3 Camera 4						

For playback, simply select date, screen mode (1, 4, 9, 16, etc.), time by one click on the time bar and click the play button.

What different colors mean on the time bar:

- Blue: Recorded data by sensor & motion detection
- Purple: Recorded data by 24-hour-recording
- White: No recorded data in all cameras
- Gray: No recorded data for some cameras
- Green: Blue + audio
- Light Green: Purple + audio
- Dark Red: Purple + recorded text data (POS)
- > Orange: Even- recorded data with recorded text data.
- Dark Yellow: Event-recorded data + recorded text data + audio
- Yellow: Purple + recorded text data + audio

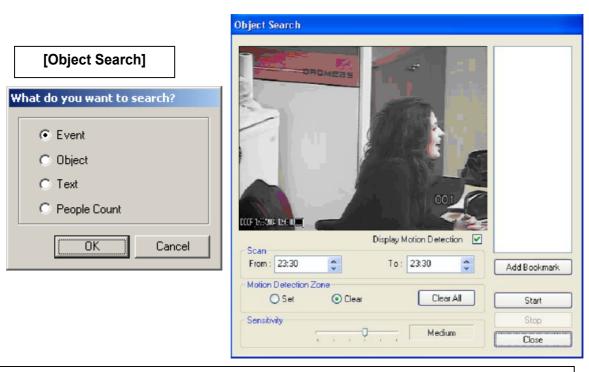




Event Search	
Channels	
Channels	▲ Delete All
Camera1	
Camera2	
Camera3	
Camera4	
Camera5	<b>T</b>
12:56> Motion Detection 1	▲ Refresh
12:57> Motion Detection 1 12:58> Motion Detection 1	
12:59> Motion Detection 1	ОК
13:00> Motion Detection 1	
13:01> Motion Detection 1 13:02> Motion Detection 1	
13:03> Motion Detection 1	
13:04> Motion Detection 1	
13:05> Motion Detection 1 13:06> Motion Detection 1	
13:06> Motion Detection 1 13:07> Motion Detection 1	
13:08> Motion Detection 1	
13:09> Motion Detection 1	
13:10> Motion Detection 1 13:11> Motion Detection 1	

Select channels for Event Search.

Select one event from the event list and click "OK", and the selected event will be displayed. Click "Refresh" to update the list.



### Object Search is only to search certain selected objects for a certain period of time.

- Scan: Set the time period for object search
- Motion Detection Zone: Select "Set" and mark areas for object search by dragging mouse. "Clear" is used to erase certain areas inside motion detection zones.
- Sensitivity: Set motion detection sensitivity level.
- Clear All: Click on it to clear all the motion detection zones set.

### DVR User's Manual (version 4.1.0.0)

Object Search	Object Search
Display Motion Detection 🕑	Display Motion Detection
From : 23:30 C To : 23:30 Add Bookmark	Scan From : 23:30 C To : 23:30 Add Bookmark
Motion Detection Zone	Motion Detection Zone
	Set Clear Clear All Start
Sensitivity Stop Close	Sensitivity Stop

[Text Search]

It is to search POS text data with image according to selected time period and item.

	Text Search		
	Reference Condition	Setup	Search
What do you want to search?			Close

hat	do you want to search?	
6	Event	
0	D Object	
0	) Text	
0	People Count	

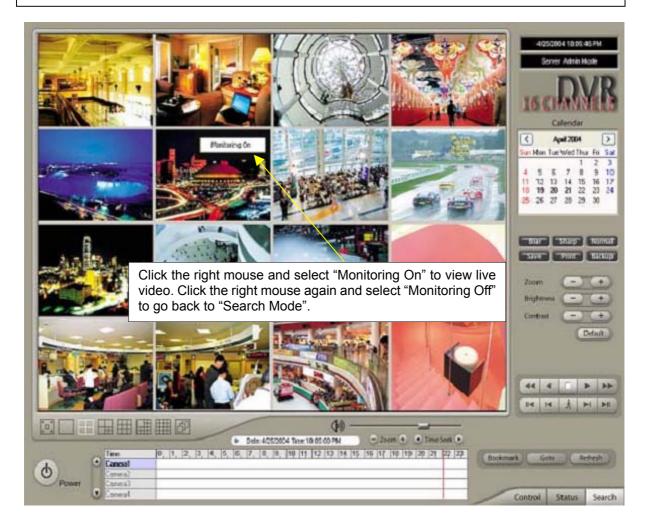
It is to search people count statistics according to selected time period & camera.

Select date, camera & time, and statistics will be shown as below. Statistics can also be saved as text file.

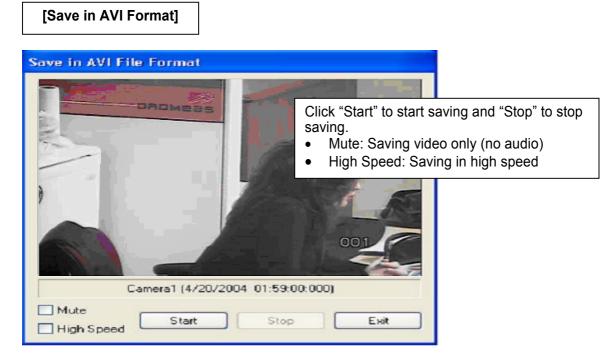
Cople Count Search Daily count														
4		Mar	ch, 2	005		4h	5h	6h	7h	8h	9h	10h	11h	12h
_					_	0	0	1	2	12	16	19	11	0
	Mon	Tue			Fri	0	0	1	2	12	16	19	11	0
27	28	1	2	3	4									
6	7	8	9	10	11									
13	Ð	15	16	17	18									
20	21	22	23	24	25									
27	28	29	30	31	1									
3	4	5	6	7	8	•		<u> </u>						•
	le cou	nt sta	tistics											
Came	era			Hou									Dele	te
Car	nera		<b></b>	Ho	Jr									
	Camer	at I			HourO		Charle	2005.0	2.14		0		Delete	All
Camera2														
							End:	2005:03	2.14 💌	Se	earch )		Rep	ort
Camera3  Hour2							LIIU.	12003.0	.14		aich		0	1
					Hour3	<b>T</b>							Clos	e l

### 5.2.3 Monitoring & Searching

It is a feature that enables user to view live video while searching recorded data.

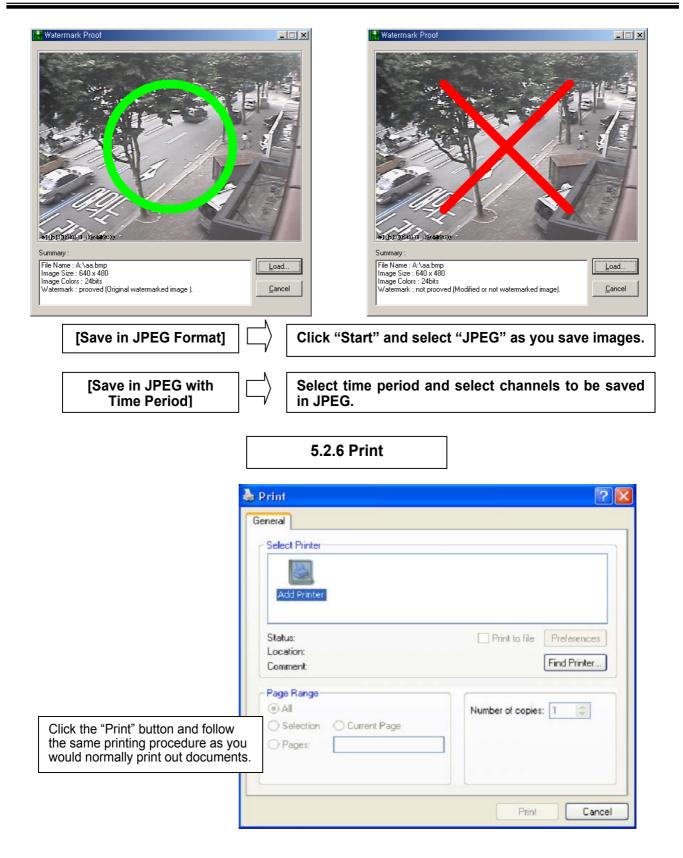


	5.2.4 Bookr	nark & Go To	
Bookmark			
List : Go To: Select desire and click "OK".	OK Add Delete Delete All	"Object Search Go To 23:30	Goto Refresh
5.2.5 Save			
Save Image		Save Print	Backup
AVI     BMP (Watermarked)     JPEG     Save in JPEG With Time Period	ancel	<ul> <li>BMP: For saving can be saved.</li> <li>JPEG: For savin not as good as E</li> </ul>	motion pictures and audio g images, Watermarked images ng regular still images. Quality is BMP but less HDD is used. Time Period: For scheduled save



Save Image As.	••							? 🛛
Save in:	My Documer	nts	~	0	1	P	•	
My Recent Documents Desktop My Documents	My Music My Pictures							
My Computer	File name:					~		Save
My Network	Save as type:	Avi File (*.avi)				*	l	Cancel



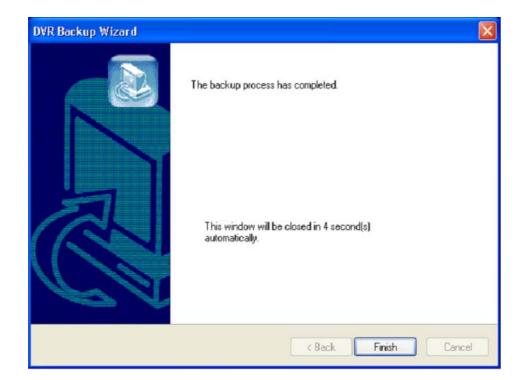


5.2.7 Backup



Backup Device			
Please select backup device			
- Select Time Period			
From	4/25/2004 🗸	00:00	
To	4/25/2004 🗸	23:59	
Password			
Password			
Retype Password			
Backup Folder F:\		Browse	
	(	<back next=""></back>	Cancel
Backup Foldor: Click the	"Proweo" but	ton coloct a drive	a ta back un
and enter a desired folder		ton, select a drive	e to back up
Backup Folder: Click the and enter a desired folder DVR Backup Wizard Camera Channels Select camera channels.		ton, select a drive	e to back up
and enter a desired folder DVR Backup Wizard Camera Channels		ton, select a drive	e to back up
and enter a desired folder DVR Backup Wizard Camera Channels Select camera channels. Channels	name.		e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel I Channel 2	name.	✓ Channel 4	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1 Channel 2 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7 Channel 1 Channel 6	name.	<ul> <li>✓ Channel 4</li> <li>✓ Channel 8</li> <li>✓ Channel 12</li> </ul>	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1  Channel 2  Channel 5  Channel 6	name.	✓ Channel 4 ✓ Channel 8	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1 Channel 2 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7 Channel 1 Channel 6	name.	<ul> <li>✓ Channel 4</li> <li>✓ Channel 8</li> <li>✓ Channel 12</li> </ul>	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1 Channel 2 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7 Channel 1 Channel 6	name.	<ul> <li>✓ Channel 4</li> <li>✓ Channel 8</li> <li>✓ Channel 12</li> </ul>	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1 Channel 2 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7 Channel 1 Channel 6	name.	<ul> <li>✓ Channel 4</li> <li>✓ Channel 8</li> <li>✓ Channel 12</li> </ul>	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1 Channel 2 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7 Channel 1 Channel 6	name.	<ul> <li>✓ Channel 4</li> <li>✓ Channel 8</li> <li>✓ Channel 12</li> </ul>	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1 Channel 2 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7 Channel 1 Channel 6	name.	<ul> <li>✓ Channel 4</li> <li>✓ Channel 8</li> <li>✓ Channel 12</li> </ul>	e to back up
And enter a desired folder  DVR Backup Wizard  Camera Channels  Select camera channels.  Channels  Channel 1 Channel 2 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7 Channel 1 Channel 6	name.	<ul> <li>✓ Channel 4</li> <li>✓ Channel 8</li> <li>✓ Channel 12</li> </ul>	e to back up

DVR Backup Wizard		×
	Calculating backup file size : 12 MB	
	< <u>B</u> ack Finish Cancel	



# 5.2.7.2 EXE Back up

DVR Backup Wizard	X
Backup File Format Please select a backup file format	
C <b>DFS</b> Save in DFS file format. Playback program required.	
<ul> <li>EXE File</li> <li>Backup data combined with data viewer. No viewer required.</li> </ul>	program
	< <u>B</u> ack <u>N</u> ext > Cancel
Any recorded data can be saved as ".Executable" fi see saved data.	ile. No viewer program is required to
Note:	

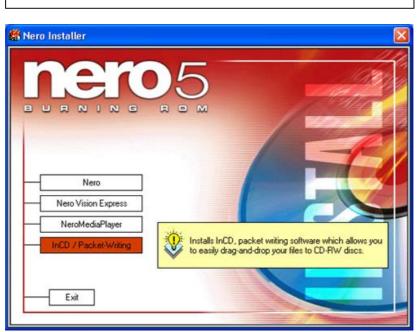
- File size limited up to 1 GB. 1 Channel backup only. •

DVI	Backup Wizard	×
	Backup Device Please select backup device	
	Select Time Period	_
	Date 2005-03-14	<u>-</u>
	Start Time 13:39 End Time 13:39	
	Password	
	Password	8
	Retype Password	8
	Backup Folder F:\backup Browse	
	< <u>B</u> ack <u>N</u> ext >	Cancel

- 1. Select "EXE File".

- Select EAE File.
   Specify time period, password, drive, etc.
   Select ONE channel to back up.
   Specify file size up to ONE GB. If it is larger than 1GB, multiple exe files will be created.
   Tick the "Once Make EXE File" box to create only one file with the file size specified.
   Double-click the exe file created to see data.

Camera Channels.	DYR Backup Wizard		×
Channels         Camera 1         Camera 2         Camera 3         Camera 4         Image: Solution of the state of			
500       ■       MB         ✓ Drace Make. EXE File       ✓         ✓ Back       Next >       Cancel         ✓ Back       ✓       ✓         ✓ Backup_test       ✓       ✓         ✓       ✓       ✓         ✓       Øsearch       ✓         Øsearch       ✓       Øsearch         Øsearch       ✓	Channels ✓ Camera 1 Camera 2 Camera 3	× •	
C:\backup_test     Elle Edit View Favorites Iools Help     Image: Back Image: Provide the state of the state	500 <b>MB</b>		
Elle Edt View Favorites Iools Help     Image: Product Product     Image: Product Product     Image: Product Product     Image: Product Product Product     Image: Product Produ		< <u>B</u> ack <u>N</u> ext >	Cancel
1 object(s) 1.18 MB	Elle       Edit       Yew       Favorites       Tools       Help         Image: Address       Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Address       Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Image: Display Second Image: Citybackup_test       Image: Citybackup_test       Image: Citybackup_test         Im	Co Co Co Co Co Co Co Co Co Co Co Co Co C	



5.2.7.3 Run CD Burner (For Non Windows XP Users)

- 1. Install bundle CD and install INCD.
- 2. After installing INCD, run "**InCDL.exe**" which is the INCD Launch Program.
- 3. Insert a blank RW CD and then start formatting it (If it is a brand-new one, click "Format" instead of "Quick Format").

Format E:\	
Device:	
E: HL-DT-ST CD-RW GCE-8401B	✓ <u>S</u> tart
Format disc	
Ormat	<u><u>C</u>lose</u>
O Quick format (erase file system)	
Other options	
Label:	
InCD	<u>Options</u>
Verify after format	<u>Eject</u>
L	

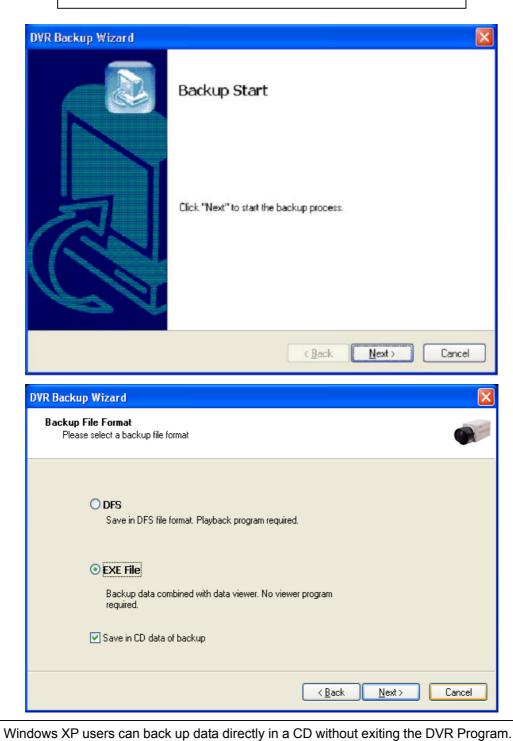
HL-DT-ST CD-RW GCE-84018		<u>S</u> tart
Format disc		
) Eormat		Close
🖲 Quick format (erase file system)		
Other options		
abel:	-	
nCD		Options
Verify after format		<u>Ej</u> ect

Image: Control of the state of th



- 5. Leave the DVR Program and insert the blank Re-Writable CD which has been formatted.
- 6. Select "Backup" and click "Next" to start.
- 7. Select time period & password and click "Browse" to create a folder.

DVP-Backop Wicard			
Rackup Device Please milest backup devce		<b>4</b>	
To	6/15/2004 💌 14/32 😋 6/15/2004 👻 14/36	Browse For Folder	
Paraword	•	Select a Backup Folder	
Browse For Folder	22	Soloce a Backap Foldor	
Ho Computer     K = 374 (Popp (Ar)     K = 4 204 (Popp (Ar)     K = 4 coal 364 (C)     K = 5 coard 364     K = 3 Sand 364 (C)     K = 5 coard 364     K = 3 Sand 364 (C)     Take new Follow     coa		My Computer My Computer My Computer My Computer My Computer My Computer Model Make New Folder Make New Folder OK	



## 5.2.7.4 Run CD Burner (For Windows XP Users Only)

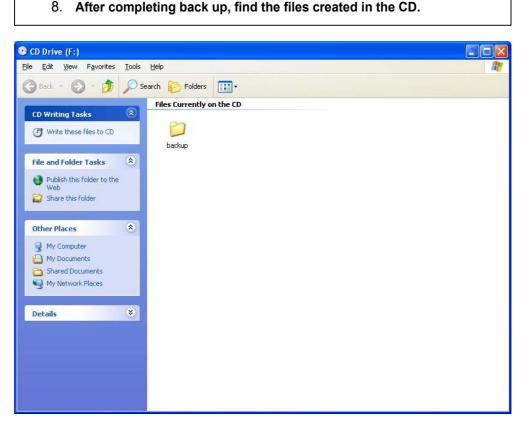
1. Tick the "Save in CD data of backup" box and click "Next".

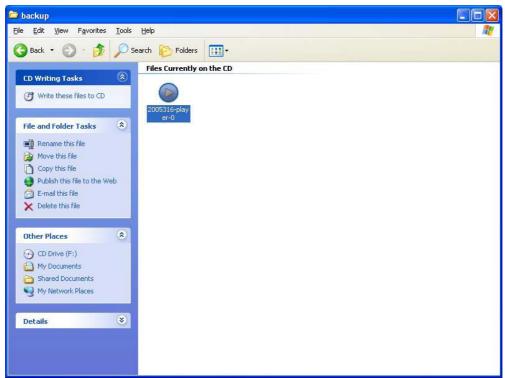
DVR Backup Wizard	
Backup Device Please select backu	up device
CSelect Time Period	
Date	2005-03-16
Start Time	17:04 C End Time 17:00
Password	
	Password
	Retype Password
Select CD-R\	W Browse
Use Fold	er
	< <u>B</u> ack <u>N</u> ext> Cancel
	ne Period : Specify time period and password.

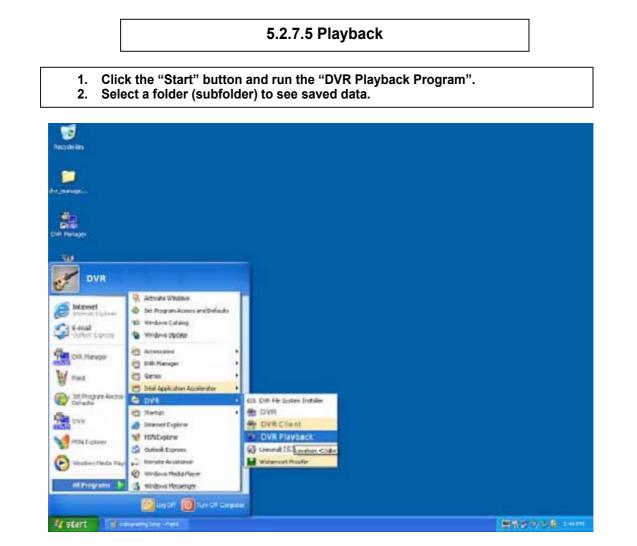
- 3. Select CD-RW drive.
- 4. Create folder name if it should be used and click "Next".
- 5. CD information will be shown as below.

CD BURNING	
Select CD Device	Close
TSSTcorp CD-R/RW TS-H292A TS02	Eject
CD Information	
Default Recorder drive letter = F:\ Recorder #1 PnP ID : TSSTcorp CD-R/RW TS-H292A TS02 Path : \Device\CdRom0 Vender : TSSTcorp Product : CD-R/RW TS-H292A Revision : TS02 DiskFreeSpace : 702 MB	

Camera Channels		
Select camera channels.		
Channels		
Channels		~
Camera 1		
Camera 2		
Camera 3		
Camera 4		×
<		<b>&gt;</b>
File Size		
702	MB	
Once Make .EXE File		
		<pre>&lt; Back Next &gt; Cancel</pre>
R Backup Wizard		
Manager Parallel		
		÷
Backup Information Confirmation	Local	Ŵ
Backup Information Confirmation Click "Next" to start backup User Location :		¢
Backup Information Confirmation Click "Next" to start backup		¢
Backup Information Confirmation Click "Next" to start backup User Location : Server Information :	None	~ 2005-03-16 17:05 (channel 1)
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period :	None 2005-03-16 17:04	~ 2005-03-16 17:05 (channel 1) RW TS-H292A TS02
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period : Backup Device :	None 2005-03-16 17:04 TSST.corp CD-R/	~ 2005-03-16 17:05 (channel 1) RW TS-H292A TS02
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation :	None	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period :	None 2005-03-16 17:04	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period :	None 2005-03-16 17:04	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period : Backup Device :	None 2005-03-16 17:04 TSST.corp CD-R/	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period : Backup Device :	None 2005-03-16 17:04 TSST.corp CD-R/	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period : Backup Device :	None 2005-03-16 17:04 TSST.corp CD-R/	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period : Backup Device :	None 2005-03-16 17:04 TSST.corp CD-R/	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period : Backup Device :	None 2005-03-16 17:04 TSST.corp CD-R/	
Backup Information Confirmation Click "Next" to start backup User Location : Server Infomation : Backup Time Period : Backup Device :	None 2005-03-16 17:04 TSST.corp CD-R/	







Browse For Folder	? 🗙
Open Backup Folder	
😼 My Computer	~
🕀 🖑 31⁄2 Floppy (A:)	
$\square $ $\square $ IncD (E:)	=
🖃 🗁 NewFolder	
ix 🔁	
🗄 🛅 test	
🗄 🥯 Removable Disk (F:)	
🗉 📴 Control Panel	~
ОК Са	ancel

# CHAPTER 6 Remote Monitoring System (Client)

	0.1	Program Execut	tion	
No.		on the "DVR Client note Monitoring Sys		
DVR Client	Remote Login			
	Servers			
	Name	IP Addr.(Phone No.	) User	Add
				E dit
				Delete
				Settings
	Click "A	Add" to register DVI	R servers.	7
				Login
				Login Close
Login Information				
			×	
Server			ОК	
Server Server Name : DVR	1		OK Cancel	
Server Server Name : DVR Server Type ③ Ti	1 CP/IP OPSTN			
Server Server Name : DVR	1 CP/IP OPSTN			
Server Server Name : DVR Server Type ③ Ti	1 CP/IP OPSTN 211.104.182.88			
Server Server Name : DVR Server Type ③ Ti IP Address : Port No. :	1 CP/IP OPSTN 211.104.182.88			
Server Server Name : DVR Server Type ③ Ti IP Address : Port No. :	1 CP/IP OPSTN 211.104.182.88 9091	Default	Cancel	Close
Server Name : DVR Server Type ③ Ti IP Address : Port No. : Bandwidth : Timeout :	1 CP/IP OPSTN 211.104.182.88 9091	Default	Cancel	Close
Server Server Name : DVR Server Type ③ Ti IP Address : Port No. : Bandwidth :	1 CP/IP OPSTN 211.104.182.88 9091	Default	Cancel	Close

Ĩ

Name	IP Addr.(Phone No.)	User	Add
DVR1	211.104.182.88	pis	Edit
DVR2	211.104.182.89	pis	
			Delete
			Settings
Pa	ssword required.		
P	assword : III	<b>E</b>	
	ОК	Cancel	

There can be more than one DVR server registered. Select one from "Servers", click on "Login" and type in password to log in.

- Edit: Login Info. Changes can be made here.
- Delete: Registered servers can be deleted with one click.

Settings	×
Buffering O Sec.	OK Cancel
Full Screen Display on Event	

Full Screen Display on Event: If checked, full screen will be displayed on events.

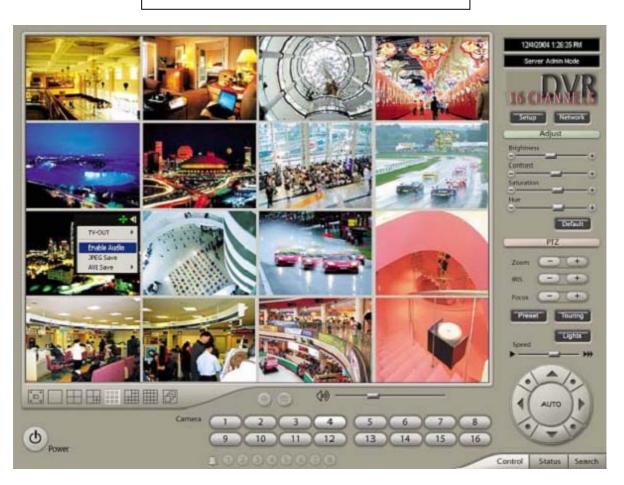
### 6.2 Remote Save and Backup



The instant AVI file save of real time video can be done remotely.1. Click the right mouse to start saving.2. Click the right mouse to stop saving.

Remote Backup can also be done. The same procedure as "DFS Backup" is used.

### 6.3 Real Time Audio



Click the right mouse and select "Enable Audio" to hear real time audio.

Note: Changing "Setup" remotely can be done if remote user is "Admin" or "Admin Mode".

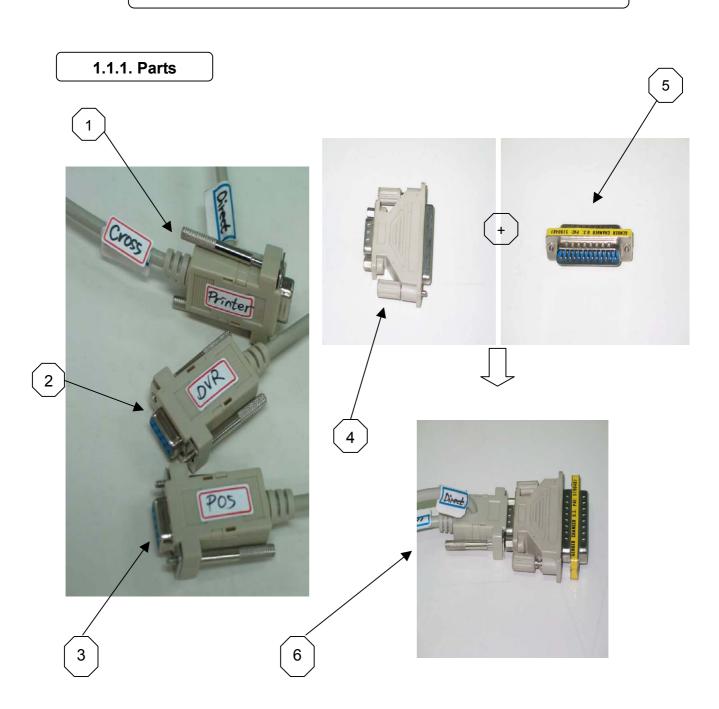
# Appendix 1 POS DVR

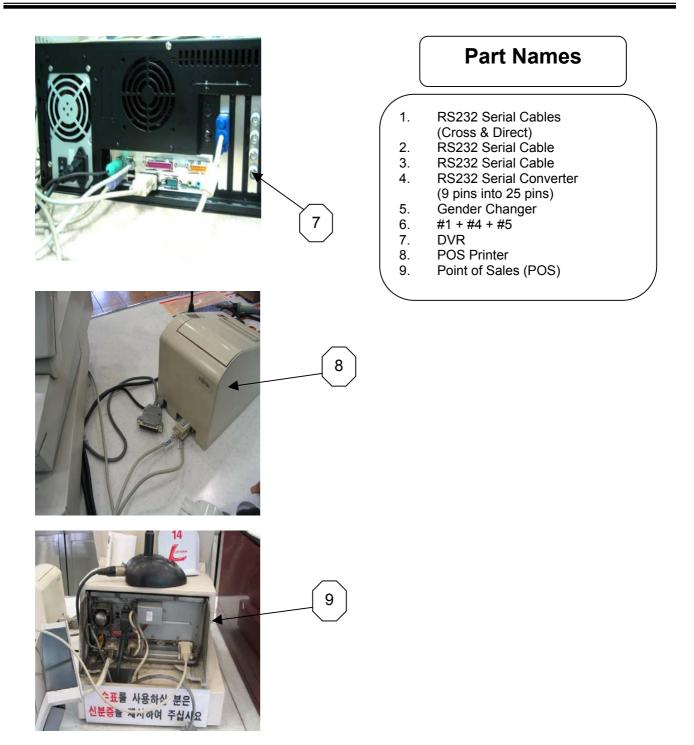
## TABLE OF CONTENTS

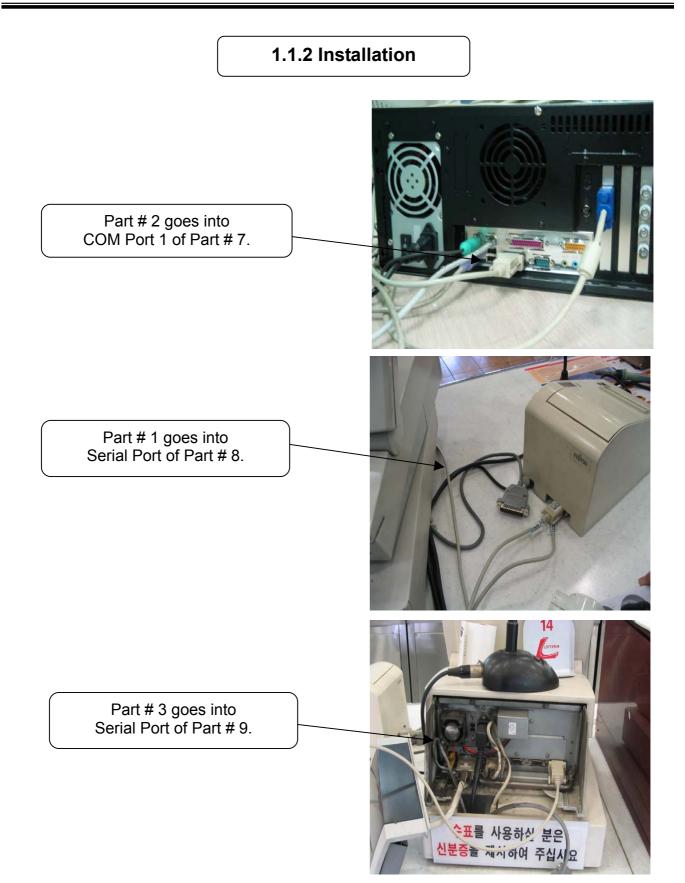
1.1 Hardware Installation 1.1.1 Parts 1.1.2 Installation

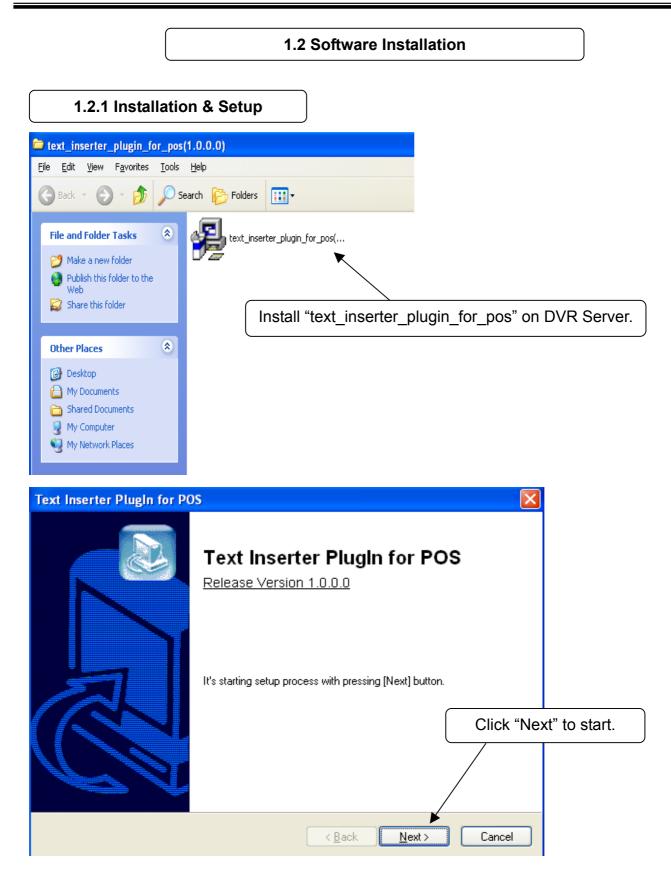
1.2 Software Installation 1.2.1 Installation & Setup

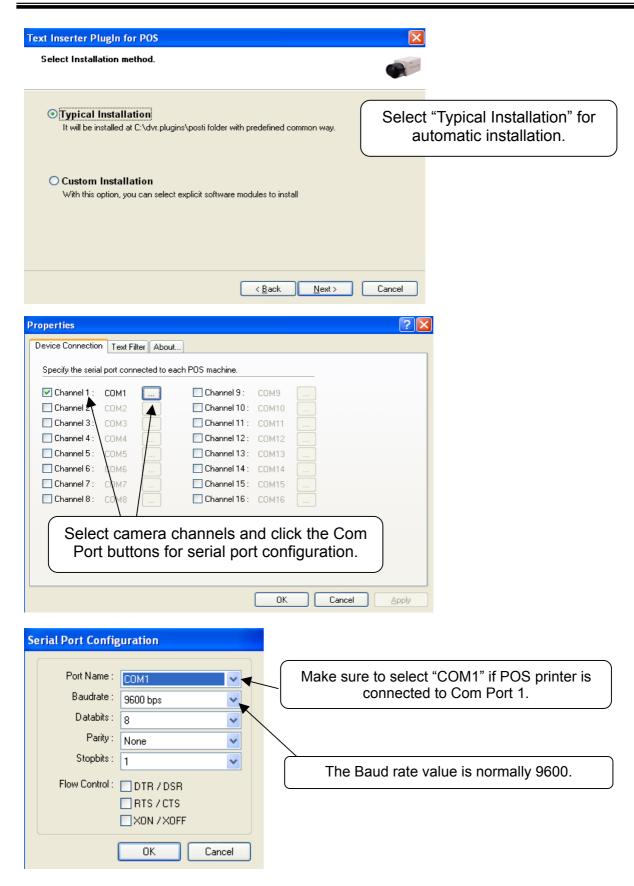
# 1.1 Hardware Installation











Text Inserter PlugIn for POS	
Setup process has finish	ed successfully.
	< Back Finish Cancel
Properties	
Device Connection Text Filter About	Leave everything else.
Important goods items :       Useless text (Shop name, Tel. no,):         Goods       Sentence         Add       Delete         Add       Delete	Select words to be highlighted and words to be omitted.
	Admin. Name : Show Motion Detection Block
OK Can	Telephone no. : Font
Go to "Text Inserter" in the DVR setup and choose different fonts and different display	System Power Off When Shutdown Auto-switching Interval
corners.	1 Sec 7 10 Sec 10 Sec Use I-Phone Properties
	Misc.         Version 3.4.0.0 (Built 2004.3.26)           E-Map         TV-DUT

# Appendix 2

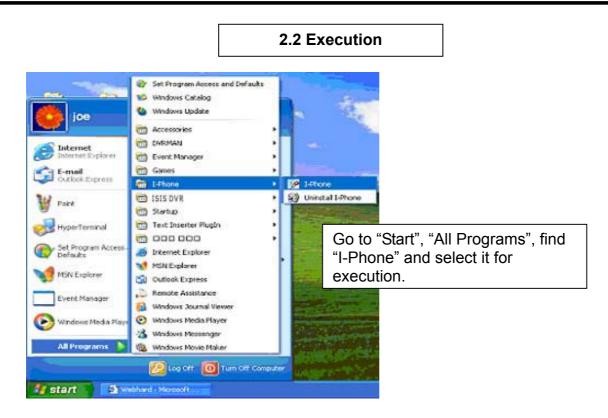
I-Phone

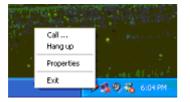
# **TABLE OF CONTENTS**

2.1 Installation 2.2 Execution

2.3 Audio Setup

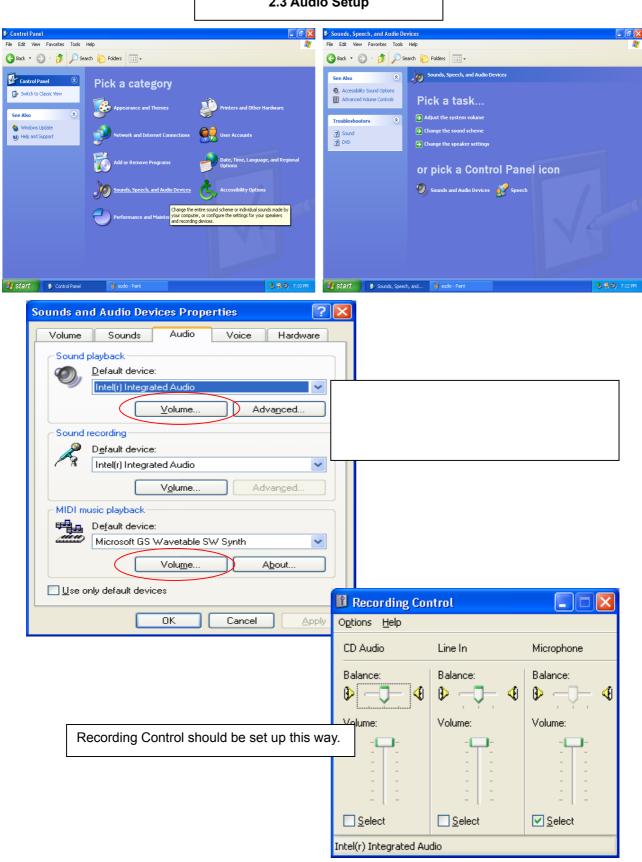
	2.	1 Installation	
Any system used for and "I-Phone (1.0.1.	or "Two-way Communica .0).exe" must be installed	tion" must have static IP	
For I-phone installat	tion, double-click on "I-Ph	one(1.0.1.0)exe".	phone(1,0,1,0),exe
I-Phone			
	I-Phone Version 1.0.1.0		
	Click "Next" to start the installation process.		
	K Back	lext > Cancel	
		I-Phone Select Installation Method.	
		• Automatic Installation To install softwares in the "C:\dvr.plugins\iphone" folder	automatically.
		O Manual Installation To select softwares manually.	
I-Phone	The Installation Process has been con		
		(	Back Next > Cancel
A			
	Click "	Finish" to complete the process.	
	< <u>B</u> ack	Finish Cancel	





Find the I-phone icon at the right bottom and click it for the next step.

Connect	tion			
Host n	ame or IP address : 192.104.182.88	Connect	Cancel	
	Select "Call for Two-Way Co	ommunication", typ	e in IP address and click	k "Connect".
Propert Tim	y Port no.: 8015	OK Cancel	Property: The defau 8015 and the defaul seconds. Leave them as they values must be use	It timeout value is 5 are unless other



#### 2.3 Audio Setup

## Appendix 3 DVR Manager

# TABLE OF CONTENTS

3.1 Installation

3.1.1 Start

- 3.1.2 Selection of Installation Method
- 3.1.3 On Installing
- 3.1.4 Finish
- 3.2 Execution
- 3.2.1 DVR
  - 3.2.1.1 Setup
  - 3.2.1.2 Control
  - 3.2.1.3 Search
  - 3.2.2 MultiDVR
    - 3.2.2.1 Setup
    - 3.2.2.2 Control
  - 3.2.3 C & S (Central Station)
    - 3.2.3.1 Setup
    - 3.2.3.2 Event
    - 3.2.3.3 E-Map

# 3.1 Installation

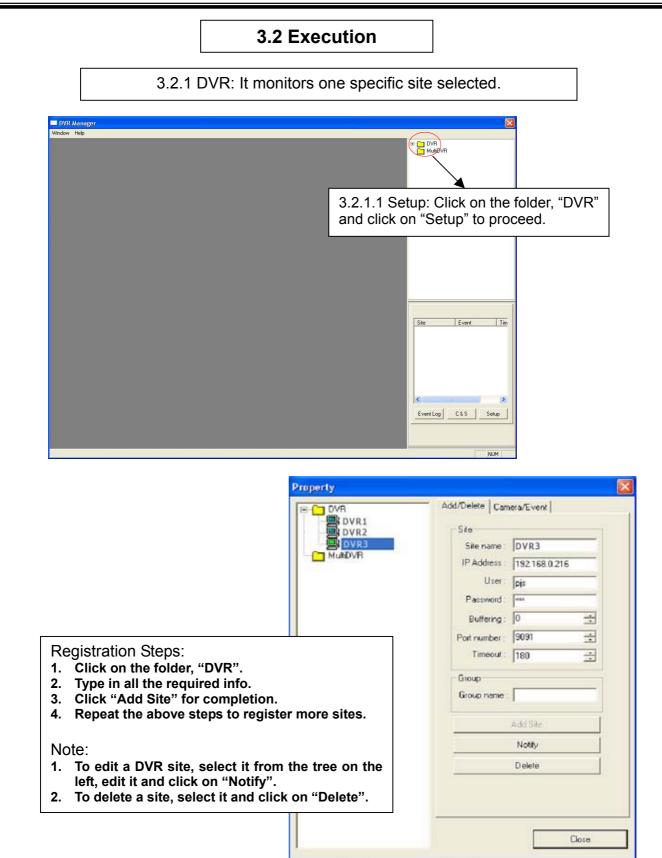
DVR Manager			
	DVR Manager Version 2.0.0.0 Click "Next" to start the installation process. 3.1.1 Start: Click "Next" to start installation process.		
	< Back Next > Cancel		
3.1.2 Selection of Ins	tallation Method: Select "Automatic Installation".		
DVRMAN	×		
Select Installation method			
Typical Installation     It will be installed at C:\dvr.plugins\ATM folder with predefined common way.			
O Custom Installation With this option, you can select explicit software modules to install			

< <u>B</u>ack

<u>N</u>ext >

Cancel

	3.1.3 On Installing (copying drivers and files)		
DVRM	AN 🛛		
On	Installing It's installing selected softwares.		
	stalling Applications Copying Files		
	< Back Finish Cancel		
DVRM	AN		
	Setup process has finished successfully.		
(/			
1	3.1.4 Finish: Click "Finish" to complete.		
	< <u>B</u> ack <b>Finish</b> Cancel		



to

ISIS1 ISIS2 ISIS3 MuMDVR	Add/Delete Camera/Event	Checked events will be repord DVR Manager and recorded Event Log.
	Apply	3.2.1.2 Control
■ DVR Manager Window Help ■ MegicReder1 - pjs ( 192	.168.0.212.)	₩ ₩ 0%R ₩ 15151 15152 15152 ₩ 15159 100 MAC/R
Window Help MogisReder1 - pjs ( 192	mply double-click on DVR site na	

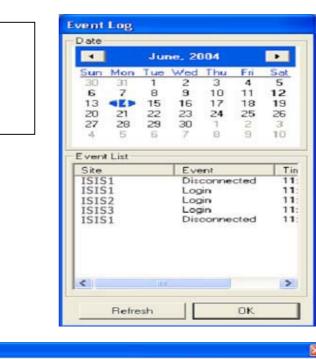
### Event Log

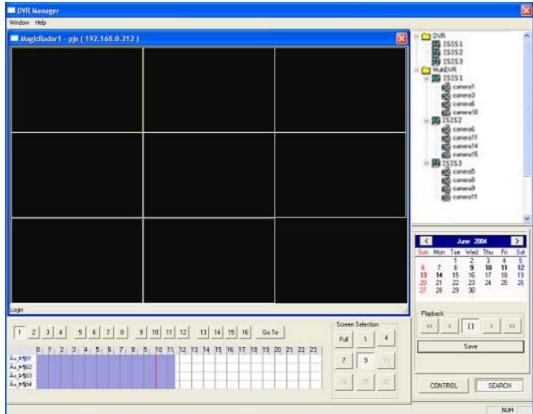
#### Manual Alarm

- Steps
- 1. Set alarms on DVR Server.
- 2. Monitor on DVR Manager.

3.2.1.3 Search

- 3. Detect event.
- 4. Click alarm button.



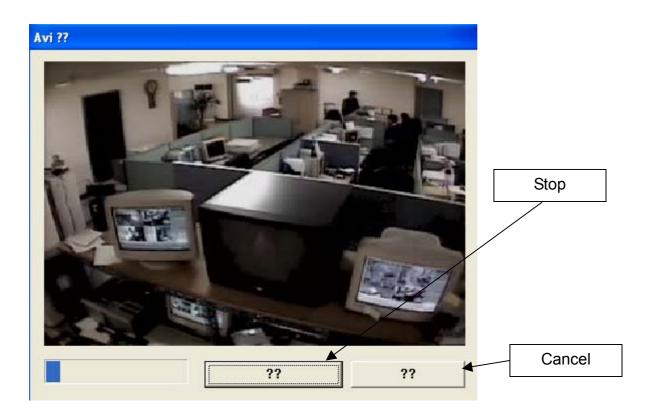


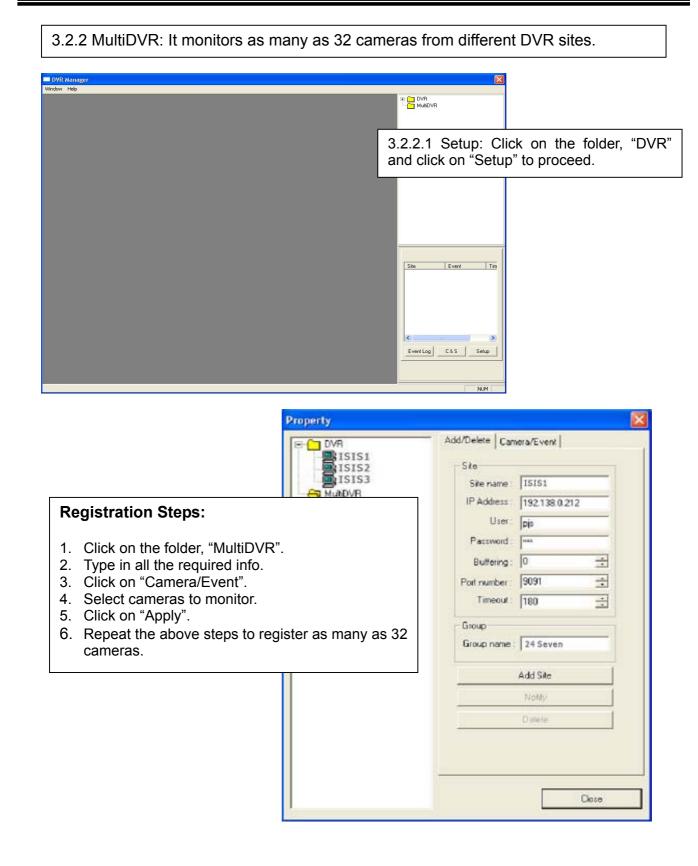
#### Search Steps:

- 1. Select a DVR site from the tree at the top right for playback.
- 2. Select a date from the calendar.
- 3. Select time to be searched either by clicking on the time bar or by using "Go To".

## Saving in AVI File Format

Save Image As				? 🛛	3	
Save jn:	📋 My Documer	its			Avi Setup	
My Recent Documents Desktop	My Music My Pictures				Time       Channel Select         Start Time :       16:06         End Time :       16:22         File Size       100MB	
My Computer My Network Places	File <u>n</u> ame: Save as <u>t</u> ype:	Event1 Avi File (*.avi)	<b>•</b>	Save Cancel	OK Cancel	

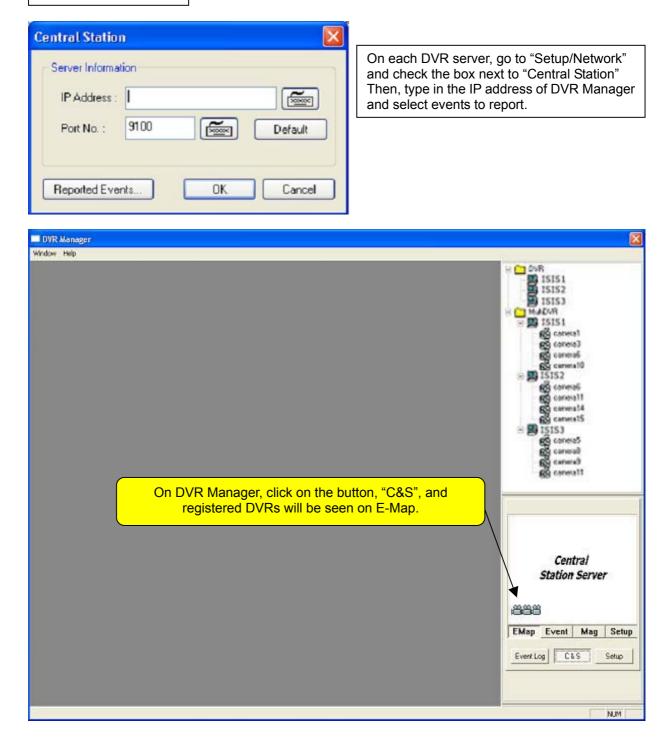




Property	S	
DVR ISIS1 ISIS2 ISIS3 ISIS3 ISIS1 ISIS2 ISIS3	Add/Delete Camera/Event	
DVR Manager Window Help	3.2.2.2 Control	E 🗂 DVR
Dou	uble-click on the folder, "MultiDVR" to view registered cameras.	DVH ISIS1 ISIS
		Sda Event Tra C Event Log C&S Setup
		MM

3.2.3 C & S (Central Station): It manages events received from numerous DVR sites.

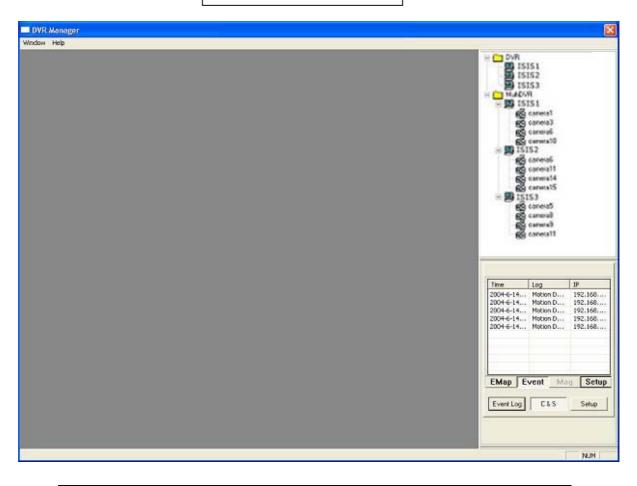
## 3.2.3.1 Setup



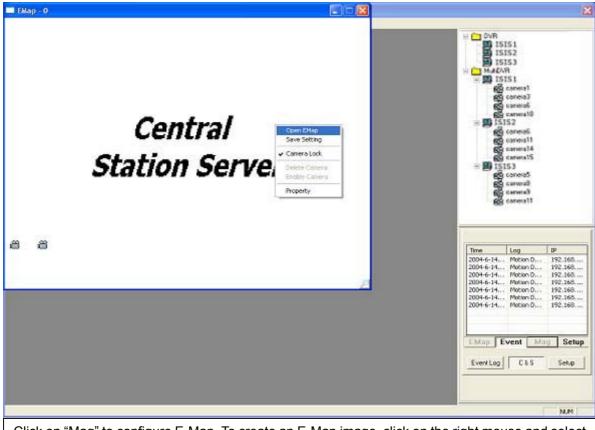


Click on "Setup" for port setup. The default value, 9100 is good to use in all cases.

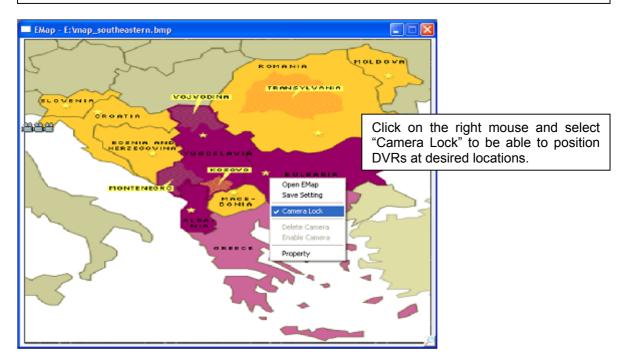


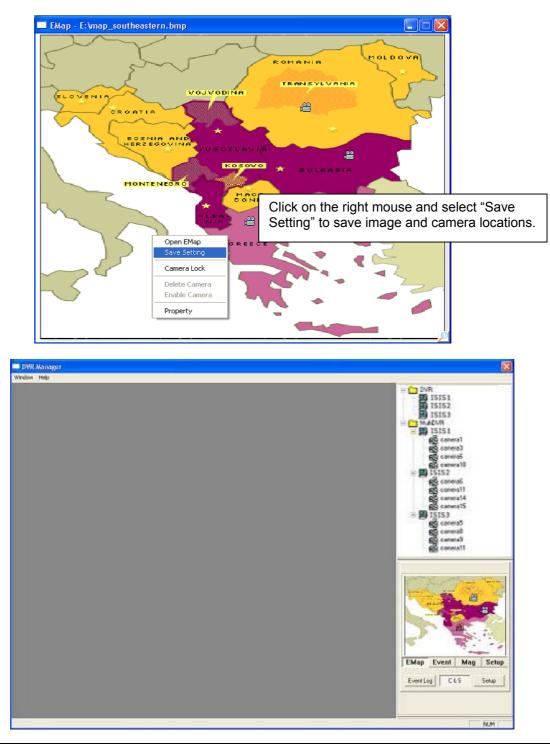


"Event" displays all the events coming in from registered DVRs. Double-click on event to go to DVR server. 3.2.3.3 E-Map



Click on "Mag" to configure E-Map. To create an E-Map image, click on the right mouse and select "Open E-Map". Only BMP file can be in use.





After configuration, selected E-Map image and all DVR sites at selected locations can be viewed. To visit a certain DVR site using E-Map, click on "Mag" and double-click on the site (camera-shaped symbol). Any DVRs (cameras) blinking in red and blue have events happening.

Restricting incoming events and receiving only desired events can be done regardless of DVR setup. On E-Map, click on the right mouse and select "Property". Only checked events will be reported to C&S. Click on "All Apply" to give the same conditions to all the rest of the DVR sites.

🔲 EMap - E:\DVR Manager Pics\map_southeastern.bmp		
SLOVENIA BOSNIA AND HERZEGOVINI HONTENEGRO	YUS OSLAVIA	NIR NSVLVANIA BULSARIA
Property 🔀		
LOCATION DVR Location 1		
IP 192.168.0.21	3	
•••••	3	
IP 192.168.0.21 Filter Message	3 I Login	Disk Full
Filter Message		
Filter Message	<ul> <li>✓ Login</li> <li>✓ Motion Detection</li> </ul>	Coutput
Filter Message	<ul> <li>✓ Login</li> <li>✓ Motion Detection</li> </ul>	Coutput
Filter Message	<ul> <li>✓ Login</li> <li>✓ Motion Detection</li> <li>✓ Setup Change</li> </ul>	<ul> <li>✓ Output</li> <li>✓ Normal Shutdown</li> </ul>