

User's Manual



8 / 16-CH H.264 Digital Video Recorder

DVR-872 / DVR-1672



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Opyright

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FCC

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received. Including interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B

WEEE regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Energy Saving Note of the Device

This power required device does not support Stand by mode operation.

For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF position to disconnect the device from the power circuit.

Without remove the DC-plug or switch off the device, the device will still consuming power from the power circuit. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to switch off or remove the DC-plug for the device if this device is not intended to be active.

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Revision

User's Manual for PLANET 8 / 16-Ch H.264 Digital Video Recorder Model: DVR-872 / DVR-1672 Rev: 2.0 (June, 2011) Part No. EM-DVR872_1672





This symbol is intended to alert the user to the presence of unprotected "Dangerous voltage" within the product's enclosure that may be strong enough to cause a risk of electric shock.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING !!!

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

All the safety and operating instructions must be read before the unit is operated.

- Make sure to switch the power off before you install the DVR.
- There is the danger of an electric shock if the DVR is opened by an unqualified service engineer or installer.
- Avoid using the DVR outside of the reference temperature and humidity indicated in the specification.
- Avoid exposing the DVR to violent movement or vibration.
- Do not use or store the DVR in direct sunlight or near to any source of heat.
- Do not place any object into the holes used for air circulation.
- Always use the DVR in a well ventilated location to prevent overheating.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

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The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information herein.

Chapter 1 FEATURES

- Two USB ports (for mouse usage and backup).
- Dual streaming enhances the speed of network transmission
- Built-in VGA up to 1280x1024 resolution
- Individual setup of resolution, frame rate and video quality for each channel
- Still image snapshot
- AVI converter with time stamp
- H.264 compression ideal for saving HDD space
- Real time live display
- Live display, record, backup, playback and network access simultaneously
- Picture-in-picture monitoring and 2X to 8X digital zoom display
- Control Methods: front panel, USB mouse, IR remote controller, client viewer
- Intuitive GUI for easy configuration and menu driven operation
- Pan / Tilt / Zoom camera control
- Data backup: USB devices, network and DVD-RW
- Event triggered with email notification: motion detection, alarm, video loss
- Supports Internet Explorer with same GUI as DVR site
- Multi-language OSD
- Central Management System (CMS)
- 3G/ GPRS mobile phone monitorin

Chapter 2 PACKING DETAIL

	1. DVR	
Installation	MANUAL	
2. CD Disk	3. Quick Installation Guide	4. Remote Control
~ ~~~		
5. HDD Kit x 1	6. Power Adapter & Power Cord	7. Battery x 2
8. SATA Cord x2 (DVR-872) SATA Cord x3 (DVR-1672)	9. HDD Rack x 4 (DVR-872) HDD Rack x6 (DVR-1672)	10. I/O Cable

Chapter 3 LOCATION AND CONTROL

3.1 Front Panel Controls

• DVR-872/ DVR-1672



	Item	Description
1 DVD-RW Slot	A DVD-RW drive can be installed in the front	
	vancant drive bay. (Optional)	
2	IR RECEIVER	Input sensor for the remote control.
3 EJECT	Press EJECT button to open/close the DVD-RW	
3	EJECT	drive.
4	USB 2.0	The USB 2.0 port can be used to connect to
4	036 2.0	numerous USB 2.0 backup devices.
5	NUMERIC BUTTON /	Camera Select/Numeric Button. Press [+10]
5	CHANNEL SELECT	button to select channels.
6	LOCK	Enable Keypad Function.
7	PTZ	Start/Stop PTZ Control.
8	REC	Start/Stop recording.
9	STATUS LED	Displays the status of the DVR (standby), HDD
7	STATUS LED	read/write and network transmission.
10	LEFT DIRECTIONAL	Left Directional Button. Fast Forward Playback,
10	BUTTON/ REWIND	Speed: 2x, 4x, 8x, 16x, 32x and 64x.
11	UP DIRECTIONAL	Up Directional Button. Slow Forward Playback,
	BUTTON/ SLOW	Speed: 1/2x, 1/4x, 1/8x and 1/16x.
	RIGHT	Right Directional Button. Fast Forward
12	DIRECTIONAL	Playback, Speed: 2x, 4x, 8x, 16x, 32x and 64x.
	BUTTON/ FAST	
	DOWN	
13	DIRECTIONAL	Down Directional Button. Stop Playback.
	BUTTON/ STOP	

14	PLAY	Start playing back.
15	SEARCH	Enter search menu screen, use Up/ Down button to navigate. Press ENTER to access
IS SEA	SLAKON	selected item.
16	ESC/ BACKUP	Exit various functions and menu screen
10	L307 DACKUP	Video data storage backup.
17	ENTER/ MODE()	Switch to full screen and quad screen.
18	MENU/ PAUSE	Enter menu mode, use Up/ Down button to
10	MENU/	navigate menu screen. Press to pause playback.
19	MUTE	Switch to 1-CH Audio Out/ Turn Off Live Audio.
20	AUTO	Enable auto mode, to skip channels. Press
20		MENU to disable auto mode.
21	FREEZE	Turn On/ Off Live Display FREZZE Function.
21		Turn On/ Off Screen FREEZE Function.
22	ZOOM	Enable/ Disable double screen size display.
~~		Press ENTER to switch channels.
23	STATUS	Display Status.
	PIP	Turn on picture-in-picture format, use Up/
24		Down button to navigate. Press ENTER to
		access selected item
25	MULTI	This button is used to toggle between multiple
		display modes: 16, 13, 10, 9 and 4 channel split
		screen display modes.

3.2 Real Panel Connectors

3.2.1 8-CH Digital Video Recorder: (DVR-872)



3.2.2 16–CH Digital Video Recorder: (DVR-1672)



3.3 Remote Control



Remote Controller –	Button Definition
1 REC	Start/ Stop Recording.
2 STATUS	Display Status.
3 CAMERA BUTTONS	Camera Select / Numeric Button.
	Press [+10] button to select channels.
④ MUTE	Switch to 1-CH Audio Out/ Turn Off Live Audio.
	Enable/ Disable On Picture-In-Picture Format.
5 PIP	Use Directional button to navigate the menu item, and press Enter button to
	enter the menu item.
	Switch to Quad Display.
	Switch to 9-Channel Display.
8	Switch to 13-Channel Display.
9	Switch to 16-Channel Display.
	Enable/ Disable double screen size display.
10 ZOOM	Use Directional button to navigate the screen display, and press Enter button to
	switch channels.
(1) ESC	Exit Button.
	Enter the SEARCH menu.
12 SEARCH	Use Up/ Down Directional Button to navigate the menu item, press Enter button
	to enter menu item.
13 PLAY	Start Playing Back.
(14) MENU/ ∎∎	Enable/ Disable Menu.
	Pause Playback.
(15) ▲/ I►	Up Directional Button.
	Slow Forward Playback, Speed: 1/2x, 1/4x, 1/8x, 1/16x.
16 ►/ ►►	Right Directional Button.
	Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
(17) ▼/■	Down Directional Button.
	Stop Playback.
(18) ◀/ ◀◀	Left Directional Button.
	Fast Rewind Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
19 ENTER/ MODE	Switch to Single Screen/ Quad Screen Display.
20 COPY	Enter the COPY menu.
(21) FREEZE	Turn On/ Off Live Display FREZZE Function. Turn On/ Off Screen FREEZE Function.
22 AUTO	In AUTO mode, all available channels will be cycled through in full screen.
23 PTZ	Start/ Stop PTZ Control.
24 LOCK	Enable Keypad Function.
25 OSD	Turn On/ Off the Screen Display.
26 IRIS +	PTZ Iris-Open.

27) IRIS -	PTZ Iris-Close.
28 ZOOM +	PTZ Zoom-In.
29 ZOOM -	PTZ Zoom-Out.
30 FOCUS +	PTZ Focus-In.
3) FOCUS -	PTZ Focus-Out.
32 PRESET	Lens PreSet Point Setup Press PRESET button+ 2 numeric numbers to save current lens location PLAY+ Numeric Number to move lens to preset point.
3 TOUR	Activate PTZ Preset Tour.

3.4 Mouse Control



Live Mode

Single Channel Display	Move the cursor to the desired channel and double left click.
Change from Single-Channel to Multi-Channel Display	Double left click

Mouse – Menu Mode	
Enter Menu setup	Right click
Select/ Enter	Left click
Return to Previous Page	Right click

Mouse – Graphic Icons	
	Resting the cursor on this icon will bring up the four (Main Menu/ Search/
	Backup/ PTZ) menu icons.
~	MAIN MENU
	SEARCH SETUP.
	BACKUP.
	PTZ CONTROL.
ef.	Turn On/Off recording.
⇒	PLAYBACK
	Resting the cursor on this icon will bring up five (PAUSE/ PIP/ ZOOM/
	AUTO SEQ/ LOCK) display icons.
	II PAUSE, to pause LIVE image
	PIP, picture in picture
	ZOOM, double the screen size
	AUTO-sequence

	LOCK, activate the key lock.
	Full screen display, multiple clicking to switch channels
==	Quad display.
	9CH Split-screen display
	13CH Split-screen display
	16CH Split-screen display

Mouse – GUI Hints and Ti	ps
	Recording is on
√ 1	Number represents the current selected LIVE audio channel
Ŕ	Live Audio is off
4	Motion detected on the channel
	Sensor triggered on the channel
	Video loss detected on the channel
***	USB device detected
4	DVR has been connected onto the Internet.
÷	AUTO-SEQ is on
*	FREEZE is on, screen is frozen
6	LOCK is on
କ୍ତି	PTZ control is on
99%	Shows the current hard disk space used-up (99% means that the HDD space has been used up 99%, and the remaining HDD space is 1%)
2009/12/24 15:42:33	Current time which is used when providing the conversion of AVI files is shown on the bottom lower right of each DVR screen.

3.5 Playback Mode

Playback – Quick Functio	n Icon
44	Press 「◀◀ / ◀ 」 button to Fast Rewind
	Speed : 2x, 4x, 8x, 16x, 32x, 64x
	Press 「 ►► / ► 」 button to Fast Forward
	Speed : 2x, 4x, 8x, 16x, 32x, 64x
	Press「 PLAY 」/ 「 _{II} 」 button to Play/ Pause Playback
INN	「▲/ SLOW」 slow playback
	Speed : 1/2x, 1/4x, 1/8x
	「▼ /∎ 」stop playback
II>	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	9CH Split-screen display (available only to 8/ 16CH DVR)
	16CH Split-screen display (available only to 16CH DVR)
©,	Zoom in video image
ð	Snap shot image

3.6 PTZ Mode

PTZ – Remote Controlle	r Control
▲ / SLOW	Move PTZ up.
▼ / ■	Move PTZ down.
44 / 4	Move PTZ to the left.
▶ / ►	Move PTZ to the right.
ZOOM +	PTZ zoom-in.
ZOOM -	PTZ zoom-out.
FOCUS +	PTZ focus-in.
FOCUS -	PTZ focus-out.
IRIS +	PTZ iris-open.
IRIS -	PTZ iris-close.
TOUR	Activate PTZ pre-set tour. *
PRESET + NUMBER	To save a preset location
FRESET + NUMBER	Press PRESET and a number key. DVR will save the current location.
PLAY + NUMBER	To go to a preset location
PLAT + NOWIDER	Press PLAY and a number key. DVR will move to the preset location.
ZOOM	Set current PTZ location as the start of the line-scan. st
PIP	Set current PTZ location as the start of the line-scan. st
FREEZE	Activate line-scan. *

*: Different brands of PTZ protocol sometimes may not be 100% compatible with each other. Therefore, these functions may not be applicable.

PTZ – Quick Function Ic	PTZ – Quick Function Icon			
	X 1 5 1 1 5 5 5 2 4 4 ZOOM - 4 5 4 FOCUS - 1 RIS -			
×	Exit PTZ Mode and back to the LIVE mode			
I ►	Preset number N. (1~64)			
	Go to preset number N.			
	Set current PTZ location at preset number N.			
¢	[TOUR] icon, click to activate preset tour			
-	Same as [PIP]. Set current PTZ location as the starting point of the line-scan.			
5	Same as [FREEZE]. Activate line-scan.			
\$	Same as [ZOOM]. Set current PTZ location as the ending point of the line-scan.			
	To move PTZ in 360°			
+ ZOOM -	PTZ zoom in or PTZ zoom out.			
+ FOCUS -	PTZ focus in or PTZ focus out.			
+ IRIS -	PTZ IRIS open or PTZ IRIS closes.			

Chapter 4 INSTALLATION

4.1 System Configuration

4.1.1 8-CH Digital Video Recorder:



4.1.2 16-CH Digital Video Recorder:



4.2 Hard Disk Installation





Chapter 5 BASIC OPERATION and MENU SETUP

5.1 Main Menu Setup



To enter the main menu and setup the DVR, please log-in account and enter user password. The default password of the administrator is "**123456**". Please refer to "Account Setup" for related setup of other log-in users.

Main Menu – Mouse Control		
仓	Switch between capital and small letters.	
.?123 / ABC	Switch between numbers and letters.	
Esc	Press to cancel the setup, and re-choose the login account.	
×	Delete the last character.	
¢1	Enter to identify the password. It will enter the setup menu if the password is verified.	
	Space key	

1 2 3 4	<mark>59</mark> %	2/3/2010 13:20:48	
Network Setup			

Main Menu – Remote Controller and Front Panel Control	
(Click MENU button to enter Quick Setup Menu)	
▲ ►	Switch to different options under one item
▲ ▼	Switch to different items
MENU	Press to confirm setup (OK)
ESC	Press to cancel setup (CANCEL)
ENTER	Enter the menu, or display virtual keyboard

5.2 Record Setup

1 2 3 4 D D D 4 53%	2/3/2010 13:21:49		
RECORD SI	ETUP		
HDD Full:	Overwrite 🔽		
1 2 3 4 5 6 7 8 9	10 11 12 13 14 15 16		
OSD Position X:	< 38 ►		
OSD Position Y:			
OSD Position Setup			
Video Preservation(Hours)	∢ 24 ►		
Quality & Frame Rate Setup.			
[MENU] OK; [ESC] Cancel	OK Cancel		

ltem	Description
	Select STOP to stop recording or OVERWRITE to reuse the HDD when
	HDD is full.
HDD FULL	[Stop] : Stop Recording
	[Overwrite] : Start to overwrite beginning from the oldest data of HDD,
	and continue to record.
OSD Position X	Set time stamp of OSD position X
OSD Position Y	Set time stamp of OSD position Y
OSD Position Setup	OSD position time stamp setup
Video Brocorvation (Houro)	Information stored within the HDD is preserved for only a specified length
Video Preservation (Hours)	of time.
Quality & Frame Rate	Setup the quality and frame rate for each channel under normal
Setup	recording and event recording type.

5.2.1 Quality & Frame Rate Setup

e	UALIT	Y & FRAME R	ATE	SETUP			
🗾 View Normal	No.	Resolution		Quality		FPS	
View Event	7	720×480		Normal		15	Ē
	1	720×480		Normal		15	Ŀ
	V 2	720×480		Normal		15	Þ
Normal 480/480	V 3	720×480		Normal		15	L
NOTIFIA1 4007400	V 4	720×480		Normal		15	D
Auto	V 5	720×480		Normal		15	L
	V 6	720×480		Normal		15	Þ
Event 480/480	Z 7	720×480		Normal		15	L
Auto	V 8	720×480		Normal		15	C
IENU] OK; [ESC] C	ancal			ОК	C	anc	el

ltem	Description
View Normal / View Event	Setup resolution, quality and FPS separately for different record type.
No.	Check/ Uncheck the box will enable/ disable recording of that channel.
Resolution	Choose record resolution, this value will be used by each channel.
Quality	Choose from Below Basic / Basic/ Normal/ High/ Highest.
FPS	Choose recording frame rate (1~30).
Auto	The maximum recording frames available by the average distribution of each channel.

*Number of "Auto" means the DVR processing ability. Recording data depends on "FPS". Ex: If channel 1 to channel 8 set to 15 FPS, the sum will be 120 FPS. (8 x 15 = 120)

5.3 Event Setup



ltem	Description
Motion Setup	Enter to set up motion detection
Sensor Setup	Enter to set up sensor detection

5.3.1 Motion Setup



Item	Description
Alarm Duration(Seconds)	Alarm duration time (1~60 seconds).
Motion Popup	Check the box to Enable/ Disable popup screen function for all channels. When motion is detected in LIVE mode, the detected channel image will popup in full screen display.
Enable	Check the box to Enable/ Disable motion detection for each channel.
Sensitivity	Drag the bar or press ◀► to set up Sensitivity from value 0 to 10 for each channel. The lower value you set lower the sensitivity it will be
Motion Area Setup	Enter to setup motion detection area
Apply to All	Set all the channels to the same setting.

5.3.1.1 Motion Area Setup



There are partitions in motion detection area (22x15 blocks). Under initializing status, motion detection area is in the entire screen. Red colored area is undetected; yet the detected area is transparent.

Item	Description
Mask Mouse Selection	Select to mask the mouse selected area.
All Area Detection	Select all the images as motion detection area.
Mask All Area	Cancel all motion detection images on the screen.
Continue	Continue setup.
Exit & Save	Save setup and exit setup page.
Exit & Discard	Cancel setup and exit setup page.

5.3.2 Sensor Setup

	SENS	SOR SETUP				
Alarm Duration(Seconds):			_	ح ا	Þ
Sensor Popup	No.	Polarity		No.	Polarity	
	1	Off		9	Off	
	2	Off		10	Off	
	3	Off	T	11	Off	
	4	Off		12	Off	
	5	Off		13	Off	
All Off	6	Off		14	Off	
All Low	7	Off		15	Off	
All High	8	Off		16	Off	

Item	Description
Alarm Duration(Seconds)	Alarm duration time (1~60 seconds).
Sensor Popup	Check the box to Enable/Disable popup screen function for all channels.
	When Sensor is detected in LIVE mode, the detected channel image will
	pop up in full screen display.
Sensor Popup	Check the box to Enable/Disable popup screen function for all channels.
	When Sensor is detected in LIVE mode, the detected channel image will
	pop up in full screen display.
Sensor Polarity	Click or press \blacksquare to select between HIGH/ LOW voltage for triggering
	sensor detection or OFF to turn off polarity for each channel
	Low Polarity : Sensor has not been triggered. When connected, sensor
	will be turned on.
	High Polarity : Sensor has been triggered. When connected, sensor
	status will be turned off.
	Off : Sensor is deactivated, and will not be turned on/off.
All off	Set all sensors polarity to off.
All Low	Set all sensors polarity to low level.
All High	Set all sensors polarity to high level.

5.4 Schedule Setup

ſ		SCHEDULE	SETUP	13:32:51
	🔣 🛃 🛛 1/5 🛛 🕨	🅦 🗾 Normal	Motion	Sensor
	●ね目 00:00 - 24:0	0 Sunday		
	•≈= 00:00 - 24:0			
	●★■ 00:00 - 24:0	IUCSUAY		
	●★■ 00:00 - 24:0	- Wednesdav		
	• * = 00:00 - 24:0	Thursday		
	• * = 00:00 - 24:0	•		
		<u> </u>		
	•★= 00:00 - 24:0			
	•★= 00:00 - 24:0	0		
		Holida	iy Setup	
T	MENU] OK; [ESC] (ancel	(OK Cancel

Apart from manual recording, you can also setup the recording time by weeks and schedule recordings include: normal, motion detection, and sensor detection.

Item	Description
Page	Click or press ▼ to select Page. Each page provides 10 schedules for setup. 5 pages in total.
Holiday Setup	Enter to setup holiday, maximum up to 50 days.
View Event Setup	View Normal/ Motion / Sensor Setup.

5.4.1 Schedule Record Setup

	Enable Sched				
• *	Enable Sched	ule Motion Detect			
* •	Enable Sched	ule Sensor Trigge	ər		
* * • *	Start Time:	< 00	▶: < 00 ▶		
- •*	End Time:	◀ 24	▶: < 00 ▶		
* •	🜠 Sunday	🜠 Monday	🜠 Tuesday		
* •	🜠 Wednesday	💋 Thursday	🜠 Friday		
* •	💋 Saturday	Holiday			
			ок	Cancel	

Click on the time icon on the left side. The setup menu will be displayed. You can have detail setup by dates, time and event.

Item	Description
Enable Schedule Record	Enables schedule recording according to the time schedule (shown above).
Enable Schedule Motion Detect	Enables schedule motion detection recording according to the time schedule (shown above).
Enable Schedule Sensor Trigger	Enables schedule sensor trigger recording according to the time schedule (shown above).

5.4.2 Holiday Setup

1 2 3 4	4	94 M		59	<mark>9</mark> %							/3/2010 3:26:00
			HOL	IDA'	Y SE	TUP						
0/50		1	2	3	4	5	6	7	8	9	10	11
January	•	12	13	14	15	16	17	18	19	20	21	22
		23	24	25	26	27	28	29	30	31		
		-1	2	3	4	5	6	7	8	9	10	11
February		12	13	14	15	16	17	18	19	20	21	22
		23	24	25	26	27	28	29				
		-1	2	3	4	5	6	7	8	9	10	11
March	-	12	13	14	15	16	17	18	19	20	21	22
-		23	24	25	26	27	28	29	30	31		
[MENU] OK; [ES	GC] Car	ncel						(ок		Ca	ncel

Since holidays are different between countries and regions, you can setup the holiday of your location accordingly (Maximum Setup: 50).

5.5 Camera Setup



ltem	Description
Mask	Check the box to Enable/ Disable mask function for LIVE mode
Sharpness	Drag the white bar or press ◀ ► to adjust Sharpness of your camera from value 0 to 15. The default value is 1.
Brightness	Drag the white bar or press ◀ ► to adjust Brightness of your camera from value 0 to 255. The default value is 128.
Contrast	Drag the white bar or press ◀ ► to adjust Contrast of your camera from value 0 to 255. The default value is 0.
Saturation	Drag the white bar or press ◄ ► to adjust Saturation of your camera from value 0 to 255. The default value is 128.
Hue	Drag the white bar or press < ► to adjust Hue of your camera from value 0 to 255. The default value is 150. (This function is ineffective in PAL system).
Name	Set up name of each channel.
Volume	Select to adjust audio volume under LIVE mode and recording mode.

NOTE!

Mask function can not turn the network live image function off. Please use the Playback Mask under master account to turn it off.

5.6 Account Setup



The Account Setup menu is used to provide role-based permission independently for each user (maximum of 4 users) to access the DVR over network. The default admin account is [admin] and password is "123456".

ltem	Description
No.	Check to activate the user's account.
User Name	Edit the user name.
Password	Enter to set up password for each user.
Permissions	Enter to setup Permissions for each user.
Change Admin Password	Enter to change administrator's password.

5.6.1 Permission Setup

	Passwor	d Expiry Date		2010/01/25	_
No. l 🜠 1	Setup		Network		
2	PTZ		Playback		
2 3	Utility		Backup		
V 4	Remote & P	layback Mask	c		i
-	CH01	CH02	CH03	CH04	
2 C	CH05	CH06	CH07	CH08	
신스	CH09	CH10	CH11	CH12	
	CH13	CH14	CH15	CH16	
[MENU] (ОК	Cancel	Cancel

The Account Setup is set to provide individual user (maximum of 4 users) role-based permissions, including access to Setup menu, Network operation, and PTZ function, Playback, Utility, Backup and Mask on specific channels while playing back.

5.7 Network Setup

192 .	LAN 168 . 12	0.0
	168 . 12	0.0
		. 38
255 .	255 . 0	. 0
192 .	168.1	. 254
168 .	95.1	. 1
	007	Cancel
Item	Description	
--------------	--	
Connect type	Setup mode for network connection: DHCP \ LAN \ ADSL.	
HTTP Setup	Enter to set up HTTP for remote access into DVR.	
DDNS Setup	Enter to Enable/ Disable DDNS function and set up.	
Mail Setup	Enter to Enable/ Disable Email notification and setup.	

5.7.1 Networking Setup

The DVR supports DHCP, LAN and ADSL access for network connection.

5.7.1.1 DHCP



If the DHCP option is used for DVR network connection, an IP address is assigned by the DHCP server automatically.

5.7.1.2 LAN

	9% 1/25/2010 18:03:24
NETWOR	K SETUP
ADSL DHCP	LAN
IP Address:	192 . 168 . 12 . 38
Subnet Mask:	255 255 0 0
Gateway:	192 . 168 . 1 . 254
DNS:	168 . 95 . 1 . 1
HTTP Setup DDNS Setup Mail Setup [MENU] OK; [ESC] Cancel	OK Cancel
	2010/01/25 18:03:2

Select LAN for network connection, the following information is required.

Item	Description		
IP Address	Enter IP address provided by ISP		
Subnet Mask	Enter IP address of Subnet Mask provided by ISP		
Gateway	Enter IP address of Gate way provided by ISP		
DNC	Enter DNS address provided by ISP. (Note: The correct DNS address		
DNS	must be entered for DDNS function).		

5.7.1.3 ADSL

Select ADSL for network connection, the following information is required.



Item	Description	
User Name	Enter user name provided by ISP	
Password	Enter password provided by ISP	

5.7.2 HTTP Setup

		HTTP SETU	•				
🜠 Enable	No.	Resolution		Quality		FPS	;
Port:	1	352x240	-	Normal		7	Ŀ
	V 1	352x240		Normal		7	E
< 80 ►	2	352x240		Normal		7	E
	V 3	352x240		Normal		7	Ŀ
	V 4	352x240		Normal		7	I.
	V 5	352x240		Normal		7	Ľ
Dual Stream:	1 6	352x240		Normal		7	L
224/240	7	352x240		Normal		7	Ľ
Auto	28	352x240	ŀ	Normal		7	Ľ
AENU] OK; [ESC]	Cancal			ОК	C	anc	al

Item	Description				
Enable HTTP Server	Check to enable HTTP server. Users can remotely access into the DVR				
	over the network if the HTTP function is activated.				
Port	Enter a valid port value from 1 up to 65535. The default value is 80.				
Quality and Frame Rate Setup for Network Transmission					
No.	Check to activate the transmission of each camera.				
Quality	Choose from Below Basic / Basic/ Normal/ High/ Highest.				
FPS	Choose recording frame rate (1~30FPS).				
Auto	The maximum recording frames available by the average distribution of each channel (totally 60FPS).				
This video streaming is used for network transmission; setting is LQ (low quality). Under a low bandwidth					
capacity, this stream can send out small picture and keep a good video quality and smooth display rate. If					
the bandwidth is large enough, it can be adjusted to HQ (high quality). Thus, the network streaming will be					
switched to the condition which this DVR is recording. Therefore, a larger video image can be sent to					
remote site.					

5.7.3 DDNS Setup



Item	Description
Enable DDNS	Check/ Uncheck to Enable/ Disable DDNS function.
DDNS Server	Enter the registered SMTP Server:
	DYNDNS.ORG, NO-IP.ORG, CUSTOM.COM
Host Server	Enter the registered SMTP Server.
User Name	Enter user name.
Password	Enter password.

5.7.4 Mail Setup

	8	2/12/2000 06:27:51				
MAIL SETUP						
Enable E-mail No	tification	17:50				
SMTP Server:						
Port:		₹ 25				
User Name:						
Password:		\$				
Sender E-mail:						
Trigger Events:		:7:50				
Video Loss	Motion 4	Z Sensor				
Receiver E-m		0 0 0 0 0 0 0				
		OK Cancel				
[MENU] OK; [ESC] Ca		OK Cancer				
2000/02/12 06:27:50	2000/02/12 06:27:50					
2000/02/12 06:2/-30	2000/02/12 06/2//30					
12340000 📢	₽₩₩ 19%	1/25/2010				
		18:08:32				
	MAII SETIID					
SMT 3						
User 4						
Pass 5						
Senc 6						
Trig						
Vi = 9						
9						
	01	K Cancel				
[MENU] OK; [ESC] Ca		OK Cancel				
		01/25 18:08:34				
	20107	01723 10.00.34				

E-mail can be used as a form of notification when an event occurs (VLOSS, MOTION, and SENSOR).

Item	Description		
Enable E-mail Notification	Check the box to enable/disable E-mail Notification function.		
SMTP Server	Enter to set up SMTP Server name.		
Port	Default is 80. Maximum number of port is 65535.		
User Name	Enter to set up User Name.		
Password	Enter to set up Password.		
Sender E-mail	Enter to set up e-mail address of sender.		
Trigger Event	Enter to select events to send out E-mail notifications when below		

	circumstances happen: Motion, Sensor and Vloss (Video Loss).
Receiver E-mail	Enter to set up e-mail addresses for up to 10 receivers individually.

5.8 PTZ & RS-485 Setup



The DVR allows users to control PTZ functions of your camera. To enable PTZ function, the 485 cable should be connected to the RS-485 port of DVR.

Item	Description				
Enable PTZ	Click the box to Enable/Disable PTZ function for each channel.				
Protocol	Set up the protocol of PTZ cam.				
PTZ ID	Click or press ◀▶ to set up PTZ ID. The valid ID value is from 1 to 64.				
Baud Rate	Select Baud Rate for PTZ from 2400 、4800 、9600 、19200				
RS-485 ID					
RS-485 Baud Rate	Reserved.				
Keyboard					

5.9 System Setup



ltem	Description				
DVR Name	The name of DVR will be shown when users login from remote access.				
DVR Location	The location of DVR will be shown when users login from remote access				
Language	Click or press ▼ to select OSD language.				
Remote ID	Setting remote controller ID to match the remote code definition retrospectively to particular DVR.				
	After one minute without any action, the DVR will switch to <i>LIVE</i> mode automatically. Auto lock can function differently according to the setting below. Button automatically Auto Lock: The front panel function keys are ineffective only until using the mouse and please re-enter the password again.				
Auto Lock	Function	Auto Logout	Key Lock		
	Key lock	0	0		
	Key unlock	0	×		
	Disable × ×				
Display Setup	Enter to set up Display				
Date/Time Setup	Enter to set up Date/Time				
Buzzer & Relay Setup	Enter to set up Buzzer & Relay				
Spot Setup	Enter to set up Spot				

5.9.1 Display Setup

	**	19%		1/25/2010 18:11:28
	DISPL	AY SETUP		
Auto-Seq Interval	(Seconds):			◀ 5 ►
💋 Show OSD				
🜠 Show DVR S	tatus			
🜠 Show Date/T	ime			
🜠 Show Chann	el Name			
Z CRT				
Border Color:	Red —			✓ 255 ►
	Green			▲ 255 ►
	Blue			◀ 255 ▶
MENU] OK; [ESC]	Cancel		ОК	Cancel
		2010/01	125	18:11:3

ltem	Description		
Auto-Seq Interval	Click or press ◀ ► to set up duration time in seconds for the interval		
(Seconds)	between channels under Auto-Seq mode (1~999 seconds).		
Show OSD	Turn On / Off OSD display		
Show DVR Status	Turn On / Off DVR illustration and record status display		
Show Date/Time	Turn On / Off date and time display		
Show Channel Name Turn On / Off channel name display			
Video System	Auto / NTSC / PAL video system setting (available to DVR-872)		
CRT	Make the display more suitable for CRT monitor. (available to DVR-1672)		
Border Color	Set up the color of border in LIVE , PLAYBACK mode. (black, dark grey,		
Border Color	light grey, and white)		

***** Time tolerance of Auto-Seq Interval is ± 2 seconds.

5.9.2 Date/ Time Setup

	1 TIME SETUP	1:56:33
Hour Format:	11:52:38	
Date Format:	2/3/2010	
Date/Time Position:	Тор	
Time Zone Setup Internet Time Setup		
[MENU] OK; [ESC] Cancel	OK Ca	ncel

ltem	Description	
Hour Format	12HOURS/ 24HOURS	
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD	
Date/Time Position	Choose the position of Time and Date display	
Change Date & Time	Setup time and date of DVR	
Time Zone Setup	e Set up GMT and Daylight Saving Time.	
Internet Time Setup	ernet Time Setup Setup automatic synchronization with internet server	

5.9.2.1 Change Date & Time

Users are allowed to setup date and time of the DVR.

	2 3 4 0 0 0 4 B 3 59%	2/3/2010 11:58:35
	CHANGE DATE	& TIME
	2010 / 2	Time: ◀ 11 ▶: ◀ 54 ▶: ◀ 42 ▶
	S M T W T F S 01 02 03 04 05 06 07 08 09 10 11 12 13	
	07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	
[M	ENU] OK; [ESC] Cancel	OK Cancel

5.9.2.2 Time Zone Setup

1 2 3 4 0 0 0 0 10 0 0 13 0 0 0	∢ 13≣ <mark>5</mark>59% ⊡		2/3/2010 11:59:31
	TIME ZONE	SETUP	
Select Time Z	one:	GMT+ 🗸	08 - : 00 -
💋 Daylight S	aving Time		
Start Tim	ie:		
Januar	∵y – 1st – Sur	nday 🚽 🗛	1 - 00 -
End Time			
Januar	y v 1st v Sur	nday 🗸 🗛	1 - 00 -
_			
[MENU] OK; [ESC] Cancel OK Cancel			

In time zone setup, users can change the time zone and activate Daylight Saving Time function according to your DVR location.

Item	Description		
Select Time Zone	Enter to modify GMT from GMT- 13 to GMT+ 13		
Daylight Saving Time	Turn On/ Off Daylight Saving Time		

5.9.2.3 Internet Time Setup

1 2 3 4 10 13	⊀ 1 3≣ ■ 59	<mark>%</mark>	2/3/2010 14:40:13
	INTERNET	IME SETUP	
Automatically Synchronize Server: time.nist.gov Update Now			Now
[MENU] OK; [ES	C] Cancel	ок	Cancel

Synchronize your DVR time with internet time server.

Item	Description	
	Check to enable DVR automatic synchronization function. Select this	
Automatic Synchronization	option to enable the function, DVR will automatically synchronize the	
	time upon rebooting or by every 24 hours after booting.	
	Date and Time show on DVR will immediately correspond with those in	
Update Now	internet server.	

5.9.3 Device Setup

1 2 3 4	₽ ≝ <mark>59</mark> %	2/3/2010 12:01:33
	DEVICE SETUP	
Mouse Speed:	;	
Buzzer & Relay	y Setup	
[MENU] OK; [ESC] Can	cel (DK Cancel
	BUZZER & RELAY SETUP	2/11/2000 22:41:53
🜠 Key Tone		11:53
HDD Error Video Loss Motion	Buzzer Relay Z	5
Sensor		
[MENU] OK; [ESC] Can		OK Cancel
2000/02/11 22:41:54	2000/02/11 22:41:54	

ltem	Description
Mouse Speed	Adjust the mouse moving speed
	Buzzer & Relay Setup
Key Tone	Enable/ Disable keystrokes.
Alarm Buzzer	Enable/ Disable buzzer operation when the alarm is triggered for HDD error, sensor, motion and vloss (Video Loss).
Alarm Relay	Enable/ Disable the signal to be sent to the RELAY OUT blocks when the alarm is triggered for HDD error, sensor, motion and vloss.

5.9.4 Spot Setup

			1000	The second second	2/11/200 22:40:5	0
		SPOT	SETUP			D.
	Auto-Seq Interval(S	econds):			1	10:55
_	Enable Spot					
	💋 Skip Video Loss	Channel				
1	Channels:					5
	🗹 C H 0 1 🛛 📈	CH02	💋 С Н03	🜠 C H 0 4		
	🗹 C H 05 🛛 📈	CH06	🗹 C H 07	🜠 C H 08		10:56
1	[MENU] OK; [ESC] Ca 2000/02/11 22:40:55	ncel	2000/02/11 22:40:56	ОК	Cancel	

The DVR has two modes of video output; one is the main video output, the other is spot video output. SPOT setup is for controlling orders of channels that the system cycles through in SPOT mode. User can monitor every channel in the SPOT mode.

ltem	Description	
Auto-Seq. Interval The duration interval time between channels is in seconds under		
(Seconds) mode (1~999 seconds).		
Freble Snet	When setting "Enable Spot", the "MAIN/SPOT" BNC terminal will be	
Enable Spot	confined/restricted to Spot output port only.	
Skip Video Loss Channel Whether to skip channels without video signal.		
Channels	Select which channels will be displayed in the sequence.	

5.10 Utility Setup

1 2 3 4 . 10 13	∢ 1:1 5 5	<mark>)%</mark> 6	2/3/2010 12:03:54		
UTILITY					
		alization alization			
System Recovery					
Reset System Events					
Copy Setup to USB Download Setup from USB					
Upgrade					
[ESC] Close			Close		

ltem	Description			
HDD Initialization	Select to enter hard disk initialization menu. Please stop recording			
	before entering this menu. Enter the menu, system will show all the			
	data (model/ volume) of HDD that is installed in the DVR. Check the HDD			
	you'd like to initialize, and then press "Start". HDD initialization is			
	successful when the status shows "Succeed".			
USB Initialization	Clean up all data on USB. Enter USB initialization and press "YES" to			
	clean up all data on your USB. The initialization is done when it shows			
	"Succeed".			
System Recovery	Restore system default values.			
Reset System Events	Reset all the recording events in the DVR.			
Copy Setup to USB	Copy configuration to a USB device. There will be a file named			
	"sdvr.config" on your USB.			
Download Setup from USB	Download configuration from a USB device into DVR.			
Upgrade	Upgrade DVR through USB.			
	Please stop recording and backup setup configuration before upgrading.			
	System will reboot automatically when the upgrade is completed.			

NOTE!! DO NOT TURN OFF POWER OR UNPLUG USB DEVICE DURING THE UPGRADE as it may cause incomplete firmware upgrade and damage to the DVR.

5.11 Diagnostic

DIAGNOSTIC						
Versi	on:			1.0.1 build 76		
IP:				192.168.12.38		
MAC: 00:17:4F:01:FE:AA						
HDD	Status:					
No.	Volume	Used	Status	Format		
1	1.00TB	74%	Using	2010/01/13		
2	250.06 G B	0 %	Good	2010/01/13		
	1					

ltem	Description		
Version	The current firmware version of DVR		
IP Address	The connected IP address of DVR. If disconnected from network, the		
IF AUUIESS	screen will display" NETWORK DISCONNECT".		
MAC Address	MAC Address of DVR		
HDD Volume	The capacity of HDD		
HDD Used Rate	Percentage of space used on HDD.		
	Shows HDD status.		
	USING means the HDD is now used for recording.		
HDD Status	GOOD/ BAD means the HDD has a known/ unknown format for the		
	DVR. (Note: Please initialize your newly-installed HDD before using it,		
	otherwise it can be recognized as BAD by the DVR).		
Format Time	The latest format time of HDD		

Chapter 6 SEARCH & BACKUP

6.1 Search Setup



Item	Description	
Event Search	Press to enter event search menu.	
Time Search	Press to enter time search menu.	

6.1.1 Event Search

		EVENT SEARCH	
Crite	eria	Page:	1 ▶
Date/Time		Event Type	lnfo
2010/02/03	11:56:00	Remote Login	Admin
2010/02/03	11:54:13	Remote Logout	Admin
2010/02/03	10:32:47	Remote Login	Admin
2010/02/02	18:46:42	Remote Logout	Admin
2010/02/02	16:39:33	Remote Logout	Admin
2010/02/02	16:03:59	Video Loss	CH10
2010/02/02	14:48:30	Remote Login	Admin
2010/02/02	14:14:48	Remote Login	Admin

The DVR automatically records events with type, time and channel information included.

If there is recording data for an event, a yellow signal **b** icon will be shown on the left

side of time information. Rest your cursor under the line and press "enter", or left click your mouse to playback the recording data.

ltem	Description		
Criteria	Setup conditions of the event search function		
Page	Convert pages of events		
Date/Time	Date/ time when the event occurred.		
	Event type, defined as following:		
	Motion	Motion Detected	
	Sensor	Sensor Detected	
	Video Loss	Video Loss	
Event Type	Remote Login	User log-in over the network	
	Remote Logout	User log-out over the network	
	Power On	System Rebooting	
	HDD Full	HDD is FULL	
	HDD Error	HDD is error	
Channel	The channel where the event occurred.		

6.1.1.1 Criteria Setup for Event Search

		4	8		2/12/20 06:37	
	From:				2000/01/01 00:00:00	
	To:				2000/01/01 00:00:00	
	💋 Motion			💋 Sensor		17:33
	💋 Video Los	S		💋 Remote Lo	ogin	
	💋 Remote Lo	ogout		💋 Power On		
1	🖉 HDD Full			🗹 HDD Erroi	t -	5
	🗹 CH01	\checkmark	CH02	🜠 C H 0 3	🗹 C H 0 4	17:33
	🗹 C H 05	\checkmark	C H 0 6	🜠 C H 07	🗹 C H 08	
DCE					OK Cancel	
	2000/ 02/ 12	06:37:33	222	2000/02/12 06:37:33		

The amount of events can be numerous. Therefore, you can facilitate event sorting by

setting up "criteria". Setup "start time" and "end time" for each event search, then the search result will be limited to this specific period of time. Only events and channels that are \square checked will be sorted in event search as well.

6.1.2 Time Search



TIME SEARCH, you can search for a specific time of the recording data to playback. Dates with recording are shown by data marked with a red square []. System will start playing back according to the date that you've selected. Calendar will be shown by using mouse to click on "year" and "month".



Click "date" to display recording time of that specific date with time bar. You can change time (hour/ minute/ second) or click on a specific time of time bar by mouse then press "**YES**". DVR will playback the selected recording data.

6.2 Backup Setup

User can back-up any segment of recorded data in a specified time frame. To do so, connect a USB to the DVR. The format of backup file is *IRF* file and can be played by "DVRemoteDesktop.exe" or "iCMS".



Item	Description	
From	Backup file starting time	
То	Backup file ending time	
Device	Select USB, CD, or DVD-R/RW as the backup device (From remote site, the device	
Device	will be PC.)	
Free Space	The available space in your backup device	
Refresh	Recalculate the available space of backup device	
Required Space	Calculate the required size of backup file	
Calculate	Calculate the size of backup file	
Start	Start backup operation. Be sure to calculate the size of backup file BEFORE	
Sidri	operating backup.	

NOTE!! Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error. When backup is completed, you need to re-plug in order to insure proper function.

Chapter 7 iCMS Installation and Usage

DVR-462 has provided a simple use and powerful utility called – iCMS. When this utility installed to Windows platform, user can get more functions than on the web browser. When you want to fully control your DVR-462, you may install the iCMS into your PC and refer to instructions below to know and manage theose functions in the iCMS.

7.1 iCMS Installation

System Requirement:

- Intel Pentium 4 processor or equivalent.
- ◆ Microsoft Windows Vista、Windows XP、Windows 2003 Server.
- 512MB memory above.
- ◆ 20MB HD space. Recording and image capturing require extra space for storage.

Installation Guide:

- Step 1: Install the CD that is packed with the DVR and into your CD-ROM drive.
- Step 2: You will see a welcome web page. Please click the iCMS utility hyper-link. If the welcome web page doesn't appear, you can find the program in E:\Utility\Setup.exe. Suppose "E" is your CD-ROM drive.
- **Step 3**: If the PC doesn't install Visual C++ plug-in, you will see this screen below, please select "Install" to install this plug-in.
- Step 4: Please click "Next".



Step 5: Select "Browse" to change installation path if needed. To check available space on hard disk, please select "Disk Cost" then please select "Next" to the next step.

🖁 iCMS	
Select Installation Folder	
The installer will install iCMS to the following folder. To install in this folder, click "Next". To install to a diff	ferent folder, enter it below or click "Browse".
Eolder: C:\Program Files\iCMS\	Browse Disk Cost

Step 6:"Confirm Installation" window shows. Select 'Next' then the installation starts.

🖞 iCMS	
Confirm Installation	
The installer is ready to install iCMS on your computer.	
Click "Next" to start the installation.	
Cancel	Back

🔂 iCMS		
Installing iCMS		
iCMS is being installed.		
Please wait		
	Cancel < Ba	ack <u>N</u> ext >

Step 7: Select 'Close' to finish installation when the "Installation Complete" window shows.

🕞 iCMS			
Installation Complete			
iCMS has been successfully installed. Click "Close" to exit.			
	Cancel	< <u>B</u> ac	k <u>C</u> lose

7.2 iCMS Login and Environment

To enter iCMS, the administrator's user name and password are required. The defaults are 'admin' and '123456'.

Login	
User:	admin
Password:	*****
C	Login Exit

After successful login, the following image is shown on your screen:



DVRs, Groups &	Information about DVRs, groups and events. See "7.3	
Events	Groups & Events" for more details.	
PC information and	Information about local PC's hard disk, volume,	
control	recordingetc. See "7.6 Local PC Information and Control"	
control	for more details.	
Main Dianlaw	Live image display area. See "7.7 Main Display" for more	
Main Display	details.	
Display Modes Several choices of display modes supported by iCMS.		
On smaller Dan	A set of 10 operations are provided by iCMS. See "7.11	
Operation Bar	Operation Bar" for more details.	

7.3 Groups & Events

lcon	Description
Ç	View list of logged in DVR / Group.
	View Logs : DVR event information list.

7.4 View DVR/ Group List

Single left click on 'DVR' or 'Group' will expand/ shrink the entire DVRs and groups list.

On the DVR list, double left click on a connected DVR will show its image in the main display. See "7.13 User Administration" for further information.

On the Group list, double left click on a group will show live image from the channels of the group in the main display. See "7.14 Group Administration" for further information.



lcon	Description
•	Video Loss
*	Motion
<u> </u>	Sensor



7.5 Event View

This window lists all the events recorded on the DVR. Each DVR has a list of different categories of events. According to Remote in/ Remote out, Video Loss, Motion, Sensor, and Other (Power Reset, Key lock, Key unlock, HD Full).



7.6 Local PC Information and Control

Located on the left lower corner of the screen, please see the chart below:

lcon	Function	Description
C:\ (79.56%)	HDD info	Shows the ratio of available space / HDD capacity
C. (1 3.30 %)		of C:\ drive (where iCMS is installed).
35	Volume	PC volume or playback volume control bar.
	Recording	Record live image to local PC storage. To view locally stored data, use "Record" under the operation bar. Also see "7.21Recording data" for detail.
	Snapshot	Take snapshot to save in local PC storage. To view all the snapshots you've taken; please go to "Snapshot" under the operation bar. See "7.20Snapshot data" for detail.

7.7 Main Display

The main display area is where the live image of DVR is shown. You can drag to change the location of the screen for each channel and turn On/Off audio signal by clicking the mouse.

🧃 icms	-			
	DVR1 -[02]	DVR1 -[01]	DVR1 -[03]	DVR1 -[04]
DVR				
DVR1 192.168.1.58 :88				
Group		_		
Group ()	and a			
	•(x 🖬 DVR1 -[05]	(x CDVR1 -[06]	• x ₪ DVR1 -[07]	x CDVR1 -[08]
	X CDVR1 -[09]	TX CDVR1 -[10]	TX 📰 DVR1 -[11]	Tx 🗊 DVR1 -[12]
	X CONT [09]			
	3			
O C:\ (69.40%)	TX CDVR1 -[13]	(x = DVR1 - [14]	TX EDVR1 -[15]	(x CDVR1 -[16]
	8			

7.8 Audio Control

In live mode, you can turn On/ Off the audio signal of Ch1~Ch4 (4CH DVR supports only 1Channel audio recording):

ان السانة Audio signal is On

Landio signal is Off

Turn On/Off by clicking on the graphical icon, please note that each time only one audio signal channel is allow turned on.



7.9 eMaps

In LIVE view, press **[i i**] to show eMap window. If a channel has e-Map settings added, a drop-down menu will appear showing the related e-Map names added in this channel. The channel that has not been added with any e-Map settings will have "No eMaps" shown on the screen.

For more information about e-Map setup, please refer to"7.15 eMap Setup".



7.10 PTZ Control

Right mouse click on the screen, PTZ control icon will appear, as shown below:

lcon	Description
8 Directional	PTZ Movement
Button	
Ð	ZOOM+ : Zoom In
Q	ZOOM- : Zoom Out
	Preserved Function
+	FOCUS+ : Focus Near
φ-	FOCUS- : Focus Far
	Preserved Function
Set PTZ Preset	16 PTZ Preset Points
Goto PTZ Preset	16 PTZ Goto Preset Points
Auto Tour	Activate Auto Tour
PTZ Sensitivity	PTZ Sensitivity Setup
	Set the start and the end point
	of Cruise function
Cruise	Activate Cruise Mode
Custom	Preserved Function
AUX 1~8(Customize)	AUTO+1 - AUTO+8



7.11 Operation Bar



10 Operations listed as below:

lcon	Description
	User Administration. Please see \lceil 7.12 User administration $_{ m J}$
	DVR Administration. Please see \lceil 7.13 DVR Administration $_{ m J}$
	Group Administration. Please see \lceil 7.14 Group Administration $_{ m J}$
	eMap Administration. Please see \lceil 7.15 eMap Setup $_{ m J}$
	Remote Playback. Please see \lceil 7.16 Remote-Site Playback _
	HDD Playback. Please see \lceil 7.17 HDD Playback $_{ m J}$
	File Playback. Please see 「7.18 File Playback」
	Event Playback. Please see 「7.19 Event Playback」
	Snapshot Data. Please see 「7.20 Snapshot Data」
	Recording Data. Please see \lceil 7.21 Recording Data $_{ m J}$

7.12 User administration

Before the iCMS can be used on a PC, user accounts should be added with proper authority. Each user should be assigned with a password and optionally a description. If a user does not have certain authority assigned, he/ she will not be able to operate the corresponding function on the Operation Bar. The default is none of the authority assigned. The administrator should assign proper authority to each user. These user accounts can be deleted or edited later on.

Select "OK" to save the setup.

lcon	Description
+	Add a user account. The default authority has none permission.
	Delete a user account.

	User Informat	-		
admin	Name:	admin		
Administration	Password:	***		
User2	Description:	Administration		
	Permission			
	User -	administration		
		administration		
		eMap administration		
	File pl			
	Event	: play		
	Snaps			
	Recor	d		

7.13 DVR Connection Information Setup

You can add or delete the DVR connection, information and description editing, also enter names of the channels (Please select Generic DVR for DVR Model). After setup, please click "OK" to store setup.

DVR Administration						
Add imov	-DVR Information -					
4CH DVR	Name:	4 CH DVR				
192.168.1.5 :80	Model:	Generic DVR				
	Address:	192.168.1.5				
	Port:	80	Channels: 4 CH DVR	~		
	ID:	admin				
	Password:	•••••				
	Description:					
	Camera descripti	on:				
	[01] speed do	me1	[09]			
	[02] speed do	me2	[10]			
	[03]		[11]			
	[04]		[12]			
	[05]		[13]			
	[06]		[14]			
	[07]		[15]			
	[08]		[16]			
	From DVR					
	ОК	Cancel				

7.14 Group Administration

A 'Group' means a set of video channels from one or many DVRs, which means, user can organize channels from different DVRs to be set in a group. This function allows you to monitor and manage channels from multiple DVRs easily and flexibly.

Steps:

- Step 1: Add a new group and set its name and description.
- Step 2: Click 'Select' which will bring up a new window.
- **Step 3**: Check the specific channels that you'd like them to be included in the group. To include all channels of a DVR, just uses □ icon to check the DVR.



- **Step 4:** Click "OK" to return to the previous window.
- Step 5: Select a display mode, system will auto select.
- **Step 6:** Drag a channel from the lower left panel into the main display to a preferred location. Or, change the channel location in the main display by mouse dragging.
- Step 7: You can 'Select' again to add other channels, but the un-saved channel locations will be lost.
- **Step 8:** Click "OK" to save the setup.

Group Adminitration						ns prost pr	
	Group Info	Group1					
Group1	Name: Descriptio						
		DVR [01] CH01	DVR				
			(02) CH02				
Select				DVR [03] CH03			
DVR-601 -[01] CH01 DVR-601 -[02] CH02 DVR-601 -[03] CH03 DVR-601 -[04] CH04					DVR [04] CH04		
			ОК	Cancel			

7.15 eMap Setup

If the DVR has the sub-region, or would like to have a picture on the background to monitor the channel, you can use the eMap.

Steps:

- 1. Click [🔛] icon to select a path of the window picture.
- 2. Click [OK] button after selecting a picture, a window will show on the right picture content.
- 3. Use left mouse button to drag to any location.
- 4. To delete a channel, please right-mouse click on the channel icon (CH1-CH4), and select item option "Remove".
- 5. Click [OK] button after setup has been completed to store setup.



7.16 Remote-Site Playback

You can playback recorded images of the DVR on the remote-site. First select a DVR, DVR recording information list appears below, double-click to playback selected video time period, a video information screen will appear on the right. There are different split-screen options to select from, as shown below.

Remote Play	
DVR:	
DVR1 (59.117.51.57) DVR2 (demo.dvr.net)	

OVR (1	92.168.1.52)						
No	Start Time	End Time	~				
1	2008/01/14 17:00:00	2008/01/14 17:49:02					
2	2008/01/14 16:00:00	2008/01/14 16:59:59					
3	2008/01/14 15:00:00	2008/01/14 15:59:59					
4	2008/01/14 14:00:00	2008/01/14 14:59:59					
5	2008/01/14 13:00:00	2008/01/14 13:59:59					
6	2008/01/14 12:00:00	2008/01/14 12:59:59					
7	2008/01/14 11:00:00	2008/01/14 11:59:59					
8	2008/01/14 10:00:00	2008/01/14 10:59:59					
9	2008/01/14 09:00:00	2008/01/14 09:59:59					
10	2008/01/14 08:00:01	2008/01/14 08:59:59					
11	2008/01/14 07:00:00	2008/01/14 07:59:59					
12	2008/01/14 06:00:00	2008/01/14 06:59:58					
13	2008/01/14 05:00:00	2008/01/14 05:59:59					
14	2008/01/14 04:00:00	2008/01/14 04:59:59					
15	2008/01/14 03:00:00	2008/01/14 03:59:59					
16	2008/01/14 02:00:00	2008/01/14 02:59:59					
17	2008/01/14 01:00:00	2008/01/14 01:59:59					
18	2008/01/14 00:00:00	2008/01/14 00:59:59					
19	2008/01/13 23:00:00	2008/01/13 23:59:59					
20	2008/01/13 22:00:00	2008/01/13 22:59:59					
21	2008/01/13 21:00:00	2008/01/13 21:59:59					
22	2008/01/13 20:00:00	2008/01/13 20:59:59	4				
23	2008/01/13 19:00:00	2008/01/13 19:59:59					
24	2008/01/13 18:00:00	2008/01/13 18:59:59					
25	2008/01/13 17:00:00	2008/01/13 17:59:59					
26	2008/01/13 16:00:00	2008/01/13 16:59:59					
27	2008/01/13 15:00:00	2008/01/13 15:59:58					
28	2008/01/13 14:00:01	2008/01/13 14:59:59					
29	2008/01/13 13:00:00	2008/01/13 13:59:59					
30	2008/01/13 12:00:00	2008/01/13 12:59:59					
31	2008/01/13 11:00:00	2008/01/13 11:59:59					
32	2008/01/13 10:00:00	2008/01/13 10:59:58					
33	2008/01/13 09:00:00	2008/01/13 09:59:59					
34	2008/01/13 08:00:00	2008/01/13 08:59:59					
35	2008/01/13 07:00:00	2008/01/13 07:59:59					
36	2008/01/13 06:00:00	2008/01/13 06:59:59	1				
37	2008/01/13 05:00:00	2008/01/13 05:59:59					
38	2008/01/13 04:00:00	2008/01/13 04:59:58					
39	2008/01/13 03:00:00	2008/01/13 03:59:59	~				

lcon	Description						
	Start Playback						
	Pause						
	Stop playback						
3	Fast forward						
	Fast rewind						

7.17 HDD Playback

You can directly play the recording data in the HDD that's uninstalled from DVR by iCMS. See the picture below, the left part of the screen shows the recording data in a list form that's separated by hour and the right part is the main display. You can change the display modes and play files fast forward or rewind.

No.	Start Time	End Time	(main	mm (asa) -				
1	2008/01/04 13:19:49	2008/01/04 13:30:01				£ Loot Loo		
2	2008/01/05 13:18:52	2008/01/05 13:22:21						
3	2008/01/07 05:18:00	2008/01/07 05:31:03	1		_	1	 	
4	2008/01/08 03:45:09	2008/01/08 03:49:03						
5	2008/01/17 06:21:37	2008/01/17 06:59:59						
6	2008/01/17 07:00:00	2008/01/17 07:59:59						
7	2008/01/17 08:00:00	2008/01/17 08:59:59						
8	2008/01/17 09:00:00	2008/01/17 09:59:59						
9	2008/01/17 10:00:00	2008/01/17 10:59:59						
10	2008/01/17 11:00:00	2008/01/17 11:59:59						
11	2008/01/17 12:00:00	2008/01/17 12:59:59						
12	2008/01/17 13:00:00	2008/01/17 13:59:59						
13	2008/01/17 14:00:00	2008/01/17 14:59:59						
14	2008/01/17 15:00:00	2008/01/17 15:59:59						
15	2008/01/17 16:00:00	2008/01/17 16:59:59						
16	2008/01/17 17:00:00	2008/01/17 17:59:59						
17	2008/01/17 18:00:00	2008/01/17 18:59:59						
18	2008/01/17 19:00:00	2008/01/17 19:59:59						
19	2008/01/17 20:00:00	2008/01/17 20:59:59						
20	2008/01/17 21:00:00	2008/01/17 21:59:59						
21	2008/01/17 22:00:00	2008/01/17 22:59:59						
22		2008/01/17 23:59:59						
23	2008/01/18 00:00:00	2008/01/18 00:59:59						
24	2008/01/18 01:00:00	2008/01/18 01:59:59						
25	2008/01/18 02:00:00	2008/01/18 02:59:59						
26	2008/01/18 03:00:00	2008/01/18 03:59:59						
27	2008/01/18 04:00:00	2008/01/18 04:59:59						
28	2008/01/18 05:00:00	2008/01/18 05:59:59						
29	2008/01/18 06:00:00	2008/01/18 06:59:59	12					
30	2008/01/18 07:00:00	2008/01/18 07:00:21	1				1	

7.18 File Playback

You can play the recorded *.irf files by "File Play" in iCMS. It allows you to change the display mode, forward or rewind the file and drag the time bar.



lcon	Description
	Start Playback
00	Pause
	Stop playback
R	Fast forward
\bowtie	Fast rewind
7.19 Event Playback

You can play the event recorded by the DVR.

Steps:

- 1. Select DVR.
- 2. Select date.
- 3. Double-click on the selected "Event type" (table on the left hand side, bottom row), video will be shown on the right side of the screen.
- 4. Select split-screen.
- 5. Use the 4 icon functions on the bottom of the screen to operate video playback.

/R: VR(19:	2.168.1.52)			~				
<<	Janua	ry 🌱	2008	•	>>	[01] CH01	TX [02] CH02	(03) CH03	TX [04] CH04
Sun.	Mon.	Tue. Wed	Thu.	Fri.	Sat.		200		
		1 2	3	4	5	Bagmand M RE			
6	7	8 9	10	11	12				
13	14	15 16	17	18	19	10	4-3-		
20	21	22 23	24	25	26	1x[05] CH05	1x[06] CH06	1×[07] CH07	(08) CH08
27	28	29 30	31		1	42(00) 0100	dis [001 ci i00	A LON J CHON	1X1001 CH00.
76 77 78 79 30 31	16:50:55 16:52:32 16:54:34 16:54:46 16:55:04 16:55:55	7 7 7 7 7 7 7	Recor Recor Recor Recor	d Motion d Motion d Motion d Motion d Motion d Motion	1 1 1	TK [09] CH09	TX [10] CH10	TX[11] CH11	1 K [12] CH12
	16:57:52	7	Recor	d Motion	1				
2	16:57:57	7	Recor	d Motion d Motion d Motion	n l	(x [13] CH13	[14] CH14	(X[15] CH15	[K[16] CH16
2 3 4	16:58:43								
12 13 14 15 16	16:58:43 16:58:48 16:58:57 16:59:13	7 7 7	Recor Recor	d Motion d Motion	1				
2 3 4 5 6 7 8 9	16:58:43 16:58:48 16:58:57 16:59:13 16:59:18 16:59:29	7 7 7 7 7	Recor Recor Recor Recor	d Motion d Motion d Motion d Motion	1 1 1				
2 3 4 5 6 7 8	16:58:43 16:58:48 16:58:57 16:59:13 16:59:18	7 7 7 7	Recor Recor Recor Recor Recor Recor Recor	d Motion d Motion d Motion					

7.20 Snapshot Data

It can display all the snapshots you've taken, into "Snapshot Data". You can review, delete or save as other files.



7.21 Recording Data

It can play all the recording files you've recorded, into "Recording Data". You can play or delete them.

Steps:

Step 1: Choose the recording time at upper left corner, it will be played on the main display.

- Step 2: You can choose the display mode.
- **Step 3**: Time bar will be shown on the right lower corner, please drag the time bar to specify the recording time you'd like to play.

econi	i					
N	Start Time	End Time			لتسال	
1 2 3	2007/12/21 17:33:21 2007/12/21 17:43:12 2008/01/14 18:57:39	2007/12/21 17:45:44		n terrore - ici I P	1000 ,414031	हत होपन्ध नामा
			2 (12) (15)	at allows fort	allaber fail	til Start fol
			(00) 1342 [1963	बह ला ०-९{१८}	स्त्र (m)041 न[11]	111 (11 1921 - 112)
			新國541-(3)	गर्नु साध-१२ - (14)	6 (1 0/41 -{12)	12 2 042[16]
Nam		Description				
DVR	? demo.i-dvr.n	et				
					0	

Chapter 8 NETWORK SURVEILLANCE

8.1 AP Software Installation and Setup

Step 1 : Enter the IP address of the DVR in the IE browser.



Step 2: A window will pop-up. Please enter the user name and password. Default user name is admin and password is 123456. Other related setup about user account and password, please refer to "5.6 Account Setup".

Connect to h264.dvr.r	net	? ×
		E A
The server h264.dvr. password.		
Warning: This server i password be sent in a without a secure conr	an insecure mann	t your username and er (basic authentication
User name:	2	-
Password:		
	Remember m	y password
	Ok	Cancel

Step 3: You've logged into the DVR



8.2 AP Software Operation

User-friendly operation, DVR remote interface provides the DVR with the same local client interface.

8000 K	83	4/1/2009 06:24:24
CH01 CH03	CH02 CH04	

8.2.1 Remote Record



Click Record icon to select between 3 recording options (Record On/ Off, Record to Local..., Screen Snapshot [F2]). Record switch can activate DVR client to record, record to local client can be backed up onto the PC, may also use snapshot to capture video image onto the PC.



8.2.2 Lock

Click Lock icon to lock remote-site function and to unlock, account and password must be entered all over again.

8.2.3 Full Screen



Click Full Screen icon to enlarge the screen to full screen display.

8.2.4 Camera Name



A variety of languages can be used to setup the PC client camera names; and simultaneously changes the display of the local client DVR.

8.2.5 Remote-Site Backup

Save As					28		
Save in	Desktop		× 0	000	•		
My Recent Documents	My Documen My Compute My Network	r Places					4/1/2009
Desktop	2009-02-09 2009-02-09	174150.wf			06:26		
My Documents						2009/04/02 08:00:00 2009/04/02 08:47:05	
My Computer	File name			~	Seve		
N	Save at type:	IRF Files (", irf)		*	Cancel	PC	
My Network		Required Sp	ace:		4		Refresh Calculate
					Start		
	[E	SC] Close					Close

Select backup function to backup the data to PC.

Chapter 9 Mobile Application

You can remotely monitor all channels of the DVR through your mobile device. The required mobile application is from the DVR manufacturer and it supports mobile OS for both Windows mobile 5.0 above and Symbian.

Please confirm that the network function of the DVR has been activated before mobile connection: Main menu \rightarrow Network Setup \rightarrow HTTP Setup \rightarrow Check the "Enable HTTP Server".

9.1 For Symbian System

Mobile Device: Nokia, SonyEricsson...etc.

System requirement:

GPRS/ 3G must be provided from your telecom service. Mobile device that supports GPRS/ 3G protocol and Java cldc1.0/midp 2.0 environment.

9.1.1 Mobile Application Installation

Please follow the steps shown below to perform the mobile device surveillance function.

Step 1: You need to install the mobile application called "**DVRH264.jar**" into your mobile device. The application can be downloaded from the CD that packed with DVR through Bluetooth or USB cable. You can find it in e:\utility\mobile\. For example, e is your CD-ROM drive.

Step 2: Install the application software "**DVRH264.jar**" in your mobile device. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.

	1
DvrSuite okf2000_jad	
DvrSuite okf2000_jar	
DvrSuite.jad	
DVRH264.jar	
emulator.exe	
iconv.dll	
jblend.exe	

9.1.2 Mobile Application Operation

After the installation, enter Program Files menu in your mobile device to run a file called **"H264 MIDIet**".

Select "Menu" at the right lower corner of your mobile screen, 4 commands, **Login Add Modify** and **Delete**, will show up.

9.1.2.1 Add New Login DVR

To log into the DVR, you need to enter the logging-in DVR information. Find "**Add**" under the "Menu" then enter logging-in DVR's IP address, Port number, account name and password. Press "**Add**" to save this information after entering.



9.1.2.2 Logging onto the DVR

Use the Login command to log onto a DVR and monitor live images. If multiple DVRs have been added to the mobile application, they will be listed by name, you can select one to log onto.

A confirmation message might show up for a network charge before connection. The fee rate will depend on the telecom company and package fee that you go with.

Network connectivity will take some time. It will be affected by networking environment and bandwidth flow. Live image will show up after a successful connection.



Note: *Live* images can not be displayed in your mobile when the recoding is set to off on local DVR.

9.1.2.3 Modify the Login Information of the DVR

You can use "**Modify**" command to change the login information of the DVR. The dialogue is identical to that of "Add" command.

Tail	I 📼				
Existing Record					
1:adi	min				
Size.	Available : 999869				
	Menu				
	1 Login				
	2 Add				
	3 Modify				
	4 Delete				
E×it	Menu				



¶attl	ABC	B
Edit Data		6
IP:		
225.242.13	31.112	
PORT:		
80		
ACCOUNT:		
admin		
PASSWOR	D:	

Back	÷	OK

9.1.2.4 Delete the Login Information of the DVR

"**Delete**" command can be used to remove the DVR information when it is no longer useful. Select the DVR on the name list, then choose "**Delete**".

Tutt	ABC 📖
Existi	ng Record
1:admi	in
2:user	,
SizeA	Menu
	1 Login
	2 Add
	3 Modify
	4 Delete
Exit	Menu

9.1.3 Live Monitoring Operation

This paragraph describes some operation under the LIVE monitoring mode in your mobile device.

9.1.3.1 Scroll the Image

You can use the keypad on your mobile device to scroll the image when it is oversized.

Кеу	Action
2	Scroll Up
4	Scroll Left
6	Scroll Right
8	Scroll Down

9.1.3.2 Image Quality Setup

Select "Quality" under the "Menu". There will be 5 levels for you to choose: Low, Normal, Middle, High and Highest.





Ψ.	11		
	Quility	Menu	- 24
0	Low	Quality	0.2
10	Normal	Single	0.8
	Middle	Multi	0.0
0	Hight	Size	0.3
5	Hightest	Rotate	0.2
G	Cancel	Alarm	0.2
1 2		9 44 112191	41516
Car	ncel		Menu

9.1.3.3 Channel Display

Select "Single" under the "Menu", all channels will be listed for you to choose from.



9.1.3.4 Size of Image



The screen size of different mobile device can be different. You can select "**Size**" under the "Menu" to choose from "**Original**" or "**Fit Screen**" to resize the display image.

ltem	Description		
Original	The image will be shown in original size.		
Fit Screen	The image will be shown to fit the screen.		

9.1.3.5 Rotate the image

Rotate	Menu	N
Normal	Quality	N IS
Rotate	Single	
	Multi	
	Size	
	Rotate	
Cancel	Alarm	
1		516

Live image can be displayed by normal image or rotate to 90 degrees. Select "**Rotate**" under the "Menu" for this operation.

Ψ	ill.	NR-F	
	Alarm	Menu	Wo
	Alarm OFF	Quality	NBIC
	Alarm ON	Single	IL ALL
CH		Multi	CH
		Size	
		Rotate	
- 1	Cancel	Alarm	
	4		
Car	ncel		Menu

9.1.3.6 Alarm

This application will not only allow user to remotely monitor through mobile device but receive the alarm that has been triggered by events such as Motion Detected, Sensor Triggered and Vloss (Video Loss).

Select the "Alarm" under the "Menu" to switch this function on or off.

ltem	Description	
*	Motion detected	
	Sensor triggered	
	Video loss	

9.2 For Windows Mobile System

There are two kinds of applications for Window Mobile OS: JPEG compression and H.264 compression. The one for H.264 compression can transfer both audio and video signal to your mobile device.

System Requirement:

Mobile device OS : Windows mobile system 5.0 and above. Mobile device need to support internet: GPRS/3G/Wifi... etc.

9.2.1 Mobile Application Installation

Please follow the steps shown below to perform the mobile device surveillance function on your mobile device (mobile phone, PDA ...etc).

Step 1: The mobile application called

"Jrviewer.CAB" and "H264Pocket.CAB" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that is packed with DVR through Bluetooth or USB cable. You can find it in e:\utility\mobile\. For example, e is your CD-ROM drive

Step 2: Install the application software "Jrviewer.CAB" and "H264Pocket.CAB" in your mobile device, two folders named "Jrviewer" and "H264Pocket" will be created. It might be installed



automatically after downloading; otherwise, select it from the downloading file for installation.







9.2.2 Mobile Application Operation

After the installation, enter the Program Files menu in your mobile device to run files named "**Jrviewer**" and "**H264Pocket**".

This application allows you to remotely logon and monitor the DVR. Press "**OK**" to bring up the operation menu; see chart the below for further information.

ltem	Function	Description
Add	Add login DV/P	Enter DVR's name, IP address, Port, Account user, Password
Add	Add login DVR	then press " OK "
		 Choose the DVR that you'd like to logon , then press "OK"
		• PS. <i>Live</i> image can not be displayed in your mobile when
		the recoding is off.
Login	Logon DVR	 PS. Network connectivity will be affected by networking
		environment and bandwidth flow. The fee rate will
		depend on the telecom company and package fee you
		go with.
Modify	Modify Login DVR	Choose DVR, press "Modify", and press"OK" to save change.
Delete	Delete Login DVR	Choose DVR and press" Delete " to delete the DVR info.

The operation of **Jrviewer**

ADSL			
IP:		5.136.37	
Port:	80		
User:	admin		
			Login
			Add
			Modify
			Delete
B	xit		ОК
	10	I.	-

The operation of H264 Pocket

adsi New	
Address: demo.i-dvr.net	
Port: 80 Login	0
User: admin Add	
Modi	
Delet	e
Exit 🔤 Ok	

9.2.3 Operation under the LIVE monitoring

After successful logon to the DVR, press "View" to bring up operation menu. You can choose the channel, resize the image, choose the quality, and turn On/ Off the status



9.2.3.1 jrviewer Operation under the LIVE monitoring

ltem	Function	Description	
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display	
Screen	Size of image	Original : image size as original Stretch : stretch the size as full screen Fit: resize the image to fit the screen	
Quality	Quality	Change the quality of image. Please note the better quality, the slower data transfer rate.	
Status Bar	Status Bar	Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the " Status Bar " to inactivate this function. Icon Description Motion Detect Sensor Trigger U V-Loss	
Alarm	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also uncheck the "Alarm" under the "View" to inactivate this function.	



9.2.3.2 Operation under the LIVE monitoring for H264 Pocket



ltem	Function	Description
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display. CH1 can receive audio signal.
Status Bar	Status Bar	Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the "Status Bar" to inactivate this function.
Alarm	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also □ uncheck the "Alarm" under the "View" to inactivate this function.

Full Screen	Full screen display	oxtimes Check this function to choose one channel to display in full
	i un sereeri display	screen.

Appendix A: Product Specification

Model	DVR-872	DVR-1672		
	CONNECTOR			
Video System	Auto Detect	NTSC / PAL Switch		
Video Input	8CH BNC	16CH BNC		
Video Output	1CH BNC	(MAIN / SPOT)		
SPOT Output	1CH BNC	(MAIN/SPOT)		
VGA Output	12	80x1024		
Audio Input	40	CH RCA		
Audio Output	20	CH RCA		
Audio Backup		YES		
Sensor	8 input / 1 output	16 input / 2 output		
RS-485	Pan / Tilt / Zoom camera			
USB Port	2 ports			
Mouse	USB mouse			
IR Remote Controller	YES			
STORAGE				
	SATA HDD x2	SATA HDD x 3		
HDD Support	(Max. 2TB each)	(Max. 2TB each)		
HDD Support	or	or		
	SATA HDD x1 + DVD writer x1	SATA HDD x2 + DVD writer x1		
DVD Writer	Optional			
	OSD			
Display Division	1,4,9,13,16 1,4,9			
Title	14 с	characters		
	RECORDING			
Video Compression		H.264		
Audio Compression	A	ADPCM		

720x480, 720x240, 360x240 (NTSC)		0x240, 360x240 (NTSC)	
Resolution	720x576, 72	20x288, 360x288 (PAL)	
From Data	60, 120, 240 (NTSC)	120, 240, 480 (NTSC)	
Frame Rate	50, 100, 200 (PAL)	100, 200, 400 (PAL)	
Quality	Highest, High, N	Normal, Basic, Below Basic	
Record Mode	Manual, Schedule, I	Event(motion detection/sensor)	
Pre-Alarm Recording	16MB	3 (around 10 sec)	
Post-Alarm		4.00	
Recording		1-60 sec	
Motion Detection	22X15	(sensitivity 0~10)	
	PLAYBAC	Κ	
Search Mode		Time, Event	
	fast forward/back	ward 2X/4X/8X/16X/32X/64X	
Playback Speed	slow forward/backward 1/2X,1/4X,1/8X		
	play/pause		
Backup Mode	USB flash driver / Network / Optional DVD media		
	NETWORK		
Network	H.264		
Compression	п.204		
Network Software	Internet Explorer / CMS / 3G Mobile Phone		
Network Users	5		
Remote Notification	Email message		
Service	TCP/IP, SMTP, DHCP, DDNS, PPPoE		
	OTHER		
Daylight Saving	YES		
Password	5 users inc	cluding 1 administrator	
Passworu	user authority selectable		
Event List	10000		
Key Lock		YES	
Firmware Update		USB device	
Dimension	430mm (W) x	x 70mm (H) x 360mm (D)	
Power Source		DC12V	
Operating	20 ~ 000/ 011	5°C ~ 40°C (41°E ~ 104°E)	
Environment	30 ~ 80% RH, 5	5℃ ~40℃ (41°F ~ 104°F)	