Stand Alone Type **DVR SYSTEM**

USER MANUAL

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IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong.

The wide blade or the third prong is provided for your safety.

When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use the attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) This equipment is indoor use and all the communication wirings are limited to inside of the building.
- 16) The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 17) CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

- # Operation Max temperature : 40℃
- # USB Load condition: USB Ports(5 Vdc, Max. 500 mA)

Specifications

Operation	PENTAPLEX	PENTAPLEX performance (Doing Simultaneous Live Display/Recording/Playback/Archiving/ Networking effectively without interfering each other operations)					
Video in	Channels	16					
	Connection	BNC, 1.0Vpp composite 75ohm balanced					
	Loop through	BNC,1.0Vpp composite 75ohm unbalanced, auto termination					
Audio in	Channels	4					
	Connection	line level unbalanced					
Main Displays	BNC	1.0Vpp composite 75ohm unbalanced					
	VGA	15 pin D-SUB 1024 x 768 @ 60Hz					
	Screen display modes	1,4,9,16 User defined channels for each mode					
	Sequence	Adjustable dwell time, user defined sequences					
Spot displays	Channels	4 fully programmable					
	Connection	BNC, 1.0Vpp composite 75ohm unbalanced					
	Display mode	Full screen sequence, adjustable dwell time					
Audio out	Channels	1					
	Connection	RCA, line level unbalanced					
External alarm	Inputs	16(16 Open collector TR), NO or NC common ground					
	Outputs	16, high(+5V) or low(0V) selectable, common ground					
User interface	On screen display	GUI, alpha blending					
	Control	Front panel/IR Remote/USB Mouse					
Recording	Video CODEC	MPEG-4					
	Resolution options for each channel	CIF (352 x 240, 352 x 288), 2 CIF (704 x 240, 704 x 288)), D1 (704 x 480, 704 x 576)					
	Maximum total frame rate	480 FPS (NTSC) / 400 FPS (PAL)					
	Image quality	Highest, High, Standard, Low					
	Pre-event recording	5 seconds max					
	Recording modes	Continuous / Motion detection / Alarm / User event / Panic					
	Frame rate options for each channel	30 - 15 - 7.5 - 4 - 2 - 1					
	Schedule Configurable recording time limits	Weekly / Daily per Camera					
	Audio	Audio inputs independently assigned to each channel					
	Motion detection	16 x 16 selectable grid with 10 levels of sensitivity					
	Covert recording	Yes, selectable by channel					
	Camera title	English and Numeral					

Playback	Speed	Forward / reverse. 1x, 2x, 3x, 4x, 8x, 16x, 32x, 64x, 128x					
	Control	Front panel buttons and Jog / Shuttle ring/USB Mouse					
	Search method	Calendar / timeline, event log, Sequence, Thumbnail, Smart Search					
	Split screen display modes	1,4,16					
	Audio synchronization	Yes, any frame rate					
Archiving	Storage	CD-RW (DVD±RW option), USB Memory stick, Network					
0	Format	Watermarked AVI					
	Archive data	Independent channels selection (video / audio), backup log, event log					
Time	Time zone	Worldwide, Selectable					
	DST	Yes					
PTZ	RS-485	Multi protocol, baud rate and speed control for each channel					
System	Watchdog	Yes					
	Abnormal shutdown detection	Yes, with system auto recovery					
	HDD error detection	Yes, SMART monitoring					
Network	Connection	RJ45, 10 / 100 Ethernet					
	DHCP	Yes					
	DDNS	Yes					
	Two way network audio	Yes					
	Bandwidth management	Yes					
Remote client	Client software	Yes, Included					
	Remote configuration	Yes					
	Remote PTZ control	Yes					
	Email event notification	Yes					
Storage	Maximum Capacity	Not limited					
	Storage	4 x HDD maximum					
	Recording options	Write once / Overwrite					
Event handling	Source	Alarm in, motion detection, video loss, HDD error, User event					
	Action	Record, alarm out, email notification, log, remote client popup, buzzer, full screen popup					
Security	User levels	ADMIN, MANAGER, USER					
	Key Lock	Yes, password protected					
Physical	Dimensions	428mm(w) x 475mm(d) x 93mm(h)					
	Weight	12Kgs					

Product Contents List

Please confirm that all product contents are present after opening the package.

1 Basic Contents





AC Power Cable



Instruction Manual

2 Optional Contents



Remote Controller



Remote Agent Installation CD



AAA Battery x 2



Internal Hard Disk Drive

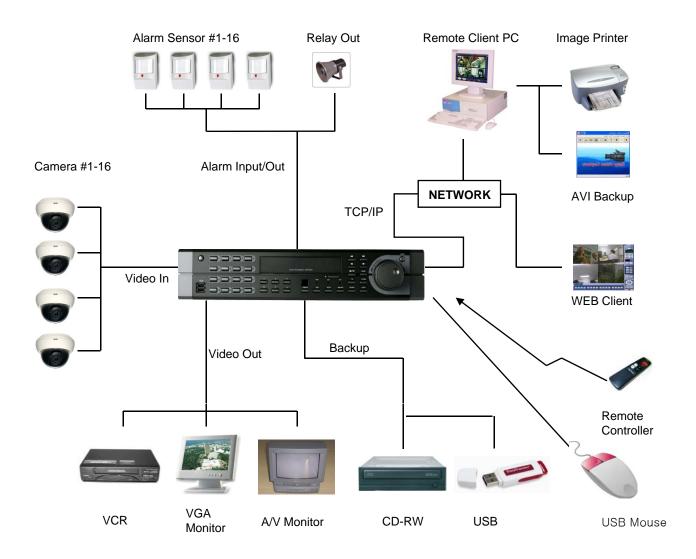


Internal CD-RW/DVD-RW Drive



USB Thumb Drive

System Organization



PRODUCT DESCRIPTION

Front Panel

POWER BUTTON

DISPLAY Selects various display modes in live display and playback

SEQ

Calls the currently defined sequence mode

PANIC Selects panic recording mode

ZOOM Selects digital zoom mode in live display

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LOCK Locks the front panel buttons

ARCHIVE Displays the archive menu

PTZ Selects PTZ mode in live display

SETUP Displays the setup menus

SEARCH Displays the search menu

SHUTTLE WHEEL

Used to quickly adjust playback speed and direction. Also used to control camera zoom when in PTZ mode, and digital zoom level in live display

JOG RING

When playback is paused, used to move footage forwards or backwards, frame by frame

HOLD

Locks the current function of the SHUTTLE WHEEL so it can be released

USB ports

Supports a wide variety of USB memory stick for archive, system setting backup and firmware upgrade. An additional USB port is also provided on the rear panel

CURSOR KEYS, ENTER and RETURN buttons

Used for navigating setup menus, search and archive screens. Also used when the DVR is in PTZ mode

CHANNEL SELECTION BUTTONS

REC

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Used to display individual channels in live display and playback Also used to enter numeric passwords for the various login screens

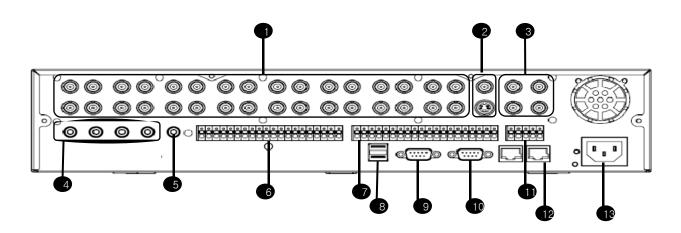
- Increases reverse playback speed
- Selects reverse playback
- Pauses / resumes playback
- Selects forward playback and also accesses the instant playback feature
- Increases forward playback speed

PRODUCT DESCRIPTION

Rear Panel

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- ① Video IN / Loop: BNC Video Input Port, BNC Video Loop Output
- 2 Monitor out : BNC Main Monitor Output

SVHS : Output Video by Connected SVHS.

- ③ Spot #1 ~ #4 : 4 x BNC Output to Individually-Sequenced Spot Monitors
- ④ Audio In : 4 x RCA Audio Line Input Terminal
- ⑤ Audio Out : RCA Audio Line Out Terminal
- 6 Alarm : 16 x Input TTL Alarm/Sensor Input Terminal
- ⑦ Relay : 16 x Relay Output Terminal
- ⑧ USB PORT: USB Port for use of a USB Memory Stick and/or USB HDD Backup
- (9) VGA OUT : VGA Main Monitor Output
- 1 RS-232C : Serial Configuration Port for Program Debugging
- 1 RS-485 : Serial Interface for PTZ device connection and control
- 2 RJ-45 jack : 10/100 Ethernet LAN/WAN connection (for Remote Access and Configuration)
- 13 AC Power Input

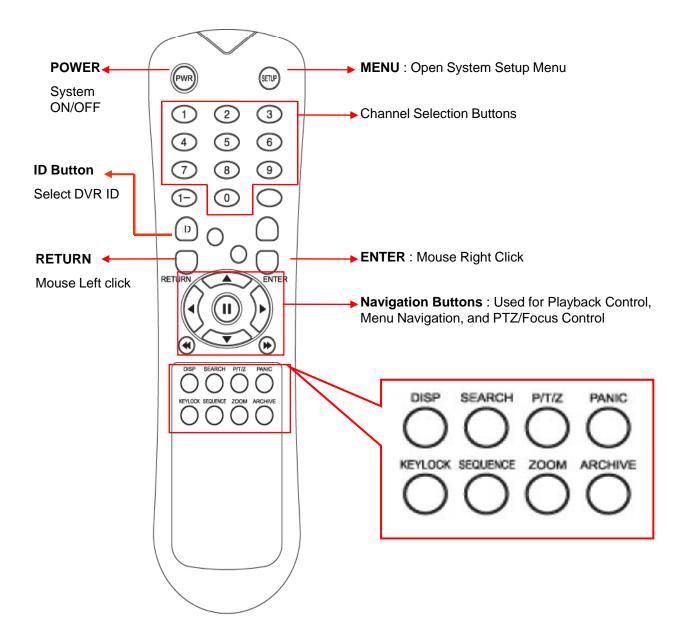
Tip

• When System Installation, Please Install under System Power Off Status.

• VGA monitor is main monitor. If you connect the CRT monitor with monitor out, you can not see the menu.

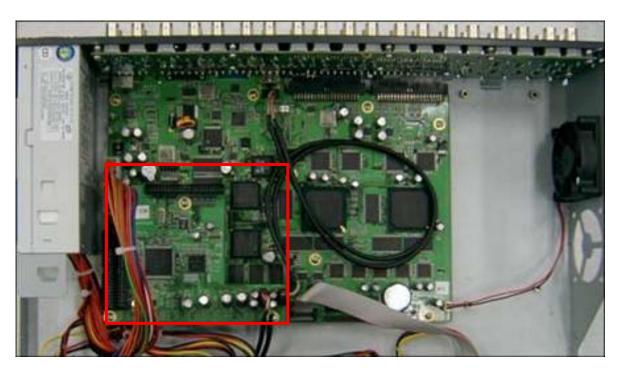
REMOTE CONTROLLER

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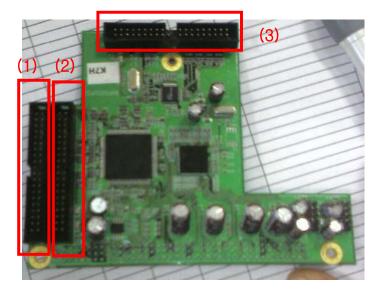
If there are many DVRs on stack, each DVR must be set different ID then Remote controller set each ID on DVR. Can control all DVRs on one Remote controller by each ID.

HDD, CD/DVD-RW CONNECTION



Above is mainboard picture after opening the top cover.

The connection board is in red box



(1) is the port for system disk(master disk) so you should install the first HDD at this port certainly.(HDD

- jumper location should be "Master"). If you connect the HDD at this port, HDD is not recognized.
- (2) is also the port to connect additional HDD. (2) is the part for CD PW or PV(P, PW) only.
- (3) is the port for CD-RW or DVD-RW only.

POWER ON

GH01		CH02	CH03	CH04
PC(R)		PG(R)	PG(R)	PČ(R)
CH05 PC(R)	• •	CHO6 PEC(PS) antice Stronge Privacy (Nation ATA Privacy (Sather ATA Secondary (Sather ATA	CH07 PC(R) H02087473 7859 #8 H020357 0#6 H020357 0#6 H020357 0#6	CHO8 PC(R)
GHO9		NE KATST	GH11	CH12
PG(R)		PC(P)	PC(R)	PC(R)
CH13 PG(R)		CH14 PC(R) 03/15/2007	CH15 PC(R) PM 03:31:58	CH16 PC(R)

Press the power button.

The DVR startup screen detects and checks the HDD and CD-RW/DVD-RW.





- Live System Info
 - 1) The percentage of HDD used.
- 2) User Connection Information
- 3) Current recording Frame information
- 4) Backup situation



Live Alarm

Alarm Detection channel show each channel.



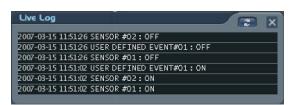
After startup process is complete, it appear the "logon" display and input the Password.

(Default password is none. So click the "Logon" button.)

The DVR start the normal operation and show default display of all 16channels.

Three pop-up displays show current system information and live log and live alarm situation.

- C: Continuous Record
- M: Motion Record
- A: Alarm Record
- P: Panic Record



Live log

It shows the live log.

: Live log can be removed by pressing this button.



When operator drag the mouse at left side of bottom, this pop-up screen is appeared.

When pressing each button, the operator can Control (On/Off) above pop-up screen.



Press the mouse right button from live display. It shows the menu screen. In case of pressing the "setup" button from front panel, it will enter "system setup menu of configuration"

directly.

Configuring the Live Display





Click the right mouse button on the Live Display screen and Click the **DISPLAY** menu.

• Display Type The operator can select 5 different display type.

Camera Arrangement The operator can edit the camera location each display type. After clicking the one of 16 channel buttons, select below section. Then display channel will be changed. Additionally the operator can select next display with clicking the arrow buttons.



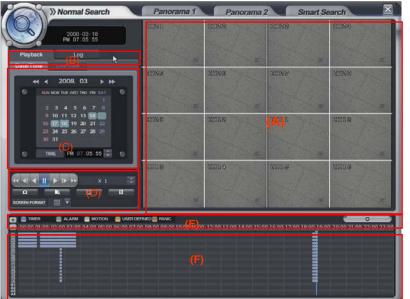
Click the direction key by manual.

To make stop position, click the [SET] button again in PATTERN ([SET] button is not activated.). To run, click the [PLAY] button in PATTERN.

SEARCH

The operator can search the recorded data as normal, panorama1, panorama2 and smart search

Normal Search





Click the right mouse button on the Live Display screen and

Click the SEARCH

menu.

Select the "SEARCH" icon and press the "SEARCH" button.

- Logon display shows and input the password.
- (A) It shows the backup display.
- (B) Select the "Playback" or "Log"
- (C) Select the "Date and Time" for search
- (D) The window for search in detail.
- (E) It shows different color each recording configuration
- (F) It shows the recorded data .

• Playback-> Date/time

Playbac	k	Log		
Date/Tim	e L	ive view		
*		2007. 03	• •	
SUN MON TUE WED THU FRI SAT 1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	2 3 9 10 16 17 23 24	٩		
•	TIME	14 : 58	: 14 🚔	۰
	11 >		X 1	÷
C Screen Form	nat 🚺			

- -Select the date. In case of date that have recorded data, it shows with color at (F).
- Select the time, The operator can select the time from timer or by drag the timeline barform (F).
- Click the button for playback from (D),
- Playback speed is from X1 to X128 forward and backward.

SEARCH



> : Click the button for snapshot backup, Then it shows below screen. During the playback, the operator can save the image that want to save.



Input the snapshot tag. Select the channel. Select the screen.

Input the Memo.

For saving the image, click the "reserve" button. (The operator can check the saved image from backup Date Management of backup menu).

START BURNING: snapshot image can be burned with USB device or CD/DVD-RW.

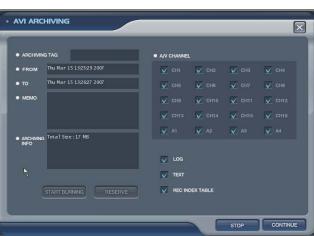
E-mail: snapshot image can be sent by E-mail.

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: Click the button for AVI archiving. Then it shows below screen. During the playback, the operator can save the AVI file about period that want to save.



Input the archiving tag. Select the channel, Select log, text. rec index table Input the Memo. Click the "start" button. Then "AVI archiving" button color is changed as red. (For using this function, it should work the playback certainly. If not, it can not save AVI file). For stopping, click "AVI archiving" button again.

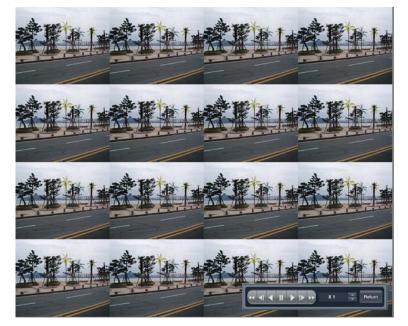


Then it shows left screen. For recording continuously, click the "continue" button. If want to stop, click the "stop" button.

	SEARC	
AVI BACKUP	X	It shows left screen with backup data information. How to burning and reserve is same with how to save
ARCHIVING TAG	AVY CHANNEL	snapshot.
• FROM Thu Mar 15 132529 2007	🗸 CH1 🗸 CH2 🗸 CH3 🗸 CH4	
• TO Thu Mar 15 132627 2007	🗸 сна 🗸 сна 🗸 сня	(The operator can check the saved image from backup
• мемо	🗸 CH9 🖌 CH10 🗸 CH11 🗸 CH12	Date Management of backup menu).
	🗸 СН13 🖌 СН14 🗸 СН15 🗸 СН16	
	V A1 V A2 V A3 V A4	
ARCHIVING Total Size : 17 MB INFO		
	LOG	
N.	✓ техт	

5.3 8 9

: Click the button for full screen from (D). Then it shows below screen.



For returning, drag the mouse to the bottom of screen.

Then appear below icon with return icon. Click the "return" button then return original screen.

The operator can control the playback speed with above icon from full screen playback mode.



 Normal Search
 Paroranal
 Paroranal
 Smart Search

 Image: Search
 Image: Search
 Image: Search
 Image: Search
 Image: Search
 Image: Search
 Image: Search
 Image: Search
 Image: Search
 Image: Search
 Image: Search
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 Image: Search
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Then it shows left screen. Current log is appeared. For returning, click the same button again.

: Click the button for changing the playback display from (D). The operator can select the playback display mode.

The display color about the recorded data at Timeline from (E) appear differently each type like above.



• Playback -> Live View

进 TIMER 📲 ALARM 📒 MOTION 👹 USER EVENT 👹 PANIC

Select the "live view". Then it shows current live display instead of calendar. The function with below icon work equally.

You can see the live display and playback display at the same time.

SEARCH

• Playback-> Log

>> Nom	nal Search	Panorama 1	Panora	ma 2	Smart Search	
200	18-03-18 17 05 55		D+	D+		(†
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2008-03-17 PM 09:57:24	VEED IN #06	1		
Playback	Log	2008-03-17 PM 09:57:24				
	₩9 k	2008-03-17 PM 09:57:24	VIDEO IN #04			
Date/Time Live Nit		2008-03-17 PM 09:57:24	VIDEO IN #03			
		2008-03-17 PM 09:57:24	VIDEO IN #02			
≼ ₹ 2008	03 1 14		VIDEO IN #01			
		2008-03-17 PM 09:54:45	TIMER	RECORD OFF : #05		
ELLY MON THE VALUE	D THU FRE LLAT	2008-03-17 PM 09:54:45	TIMER	RECORD OFF : #04		
		2008-03-17 PM 09:54:45	TIMER	RECORD OFF : #03		
		2008-03-17 PM 09:54:45	TIMER	RECORD OFF : #02		
9 10 11 12	2 13 54 55	2008-03-17 PM 09:54:45	TIMER	RECORD OFF : #01		
16 17 10 1			VIDEO LOSS /			
21 24 25 2	5 27 28 21	2008-03-17 PM 09:54:45	VIDEO LOSS I	#16		
30 31		2008-03-17 PM 09:54:45	VIDEO LOSS I	£15		
			VIDEO LOSS I			
C 10 PM	07:16:56	2008-03-17 PM 09:54:45	VIDEO LOSS I			
And the second s	Contraction - Co	2008-03-17 PM 09:54:45				
			VIDEO LOSS I			
ALL 🗹 SENSOR 🗹	USER of	2008-03-17 PM 09:54:45	VIDEO LOSS #	¥10		
	DEFINED *	2008-03-17 PM 09:54:45				
SYSTEM 🗹 MOTION 🗹 ST	ORAGE V		VIDEO LOSS /			
			VIDEO LOSS /			
SETUP 🗹 VIDEO 🗹 R	ECORD 🗹 🤍	2008-03-17 PM 09:54:45	VIDEO LOSS I	106		
		2008-03-17 PM 09:54:45	VIDEO LOSS I	r 05		
		2008-03-17 PM 09:54:45	VIDEO LOSS #	7 04		
SYSTEM 👽	LOGON V	2008-03-17 PM 09:54:45	VIDEO LOSS #	#02		
		2008-03-17 PM 09:54:45	VIDEO LOSS #	#01		
	🖆 ALL 🔻				ADMINISTRATOR	
MOTION CH	X AL T	2008-03-17 PM 09:54:31				
		2008-03-17 PM 09:54:21			ADMENESTRATOR	
VIDEO CH		2000-03-27 FIT 07.35.12	TIMER	RECORD ON: #05		
	🛔 ALL 🔻		TIMER	RECORD ON: #04		
RECORD CH	(OL ALL 🔻		TIMER	RECORD ON: #03		
			TIMER	RECORD ON: #02		
		2008-03-17 PM 09:53:42	TIMER	RECORD ON : #01		

Click the "log".

Then it shows left screen.

Select the date that want to see the log from calendar.

Select the event section that want to see.

ALL V SENSOR V SYSTEM V MOTION VS CONFIGU- VIDEO V	STORAGE 🗹	•
SYSTEM 📈	LOGON	
SENSOR CH	🖆 ALL	
MOTION CH		
VIDEO CH	🗐 ALL	
USER DEFINED	👗 ALL	
RECORD CH	(), ALL	$\overline{\mathbf{v}}$

Select the log.

For playing the recording data with log, click the log double. Click same button again for returning original screen.



Page Down, Page Up, The oldest log, The latest log as order.

- Click to start the "search".
- Click the button with viewing with timeline.

The option that want to search each channel can be selected.

SEARCH

Panorama1 Search

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- The operator can search frame by frame.



- Select the channel.
- Select the date.
- Select the time.
- The operator can select the time from timer or by drag the timeline bar.
- How to search is almost same with normal search.

SEARCH

Panorama2 Search

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- The operator can search with divided screens each time range.



CHANNEL 🗭 01 🔻		Channel selection
		Snapshot backup
X 1 🚔		
START TIME 0		Start time selection
• RANGE		
9 24 Hour	→	Time total Range selection
12 Hour		
8 Hour		
4 Hour		

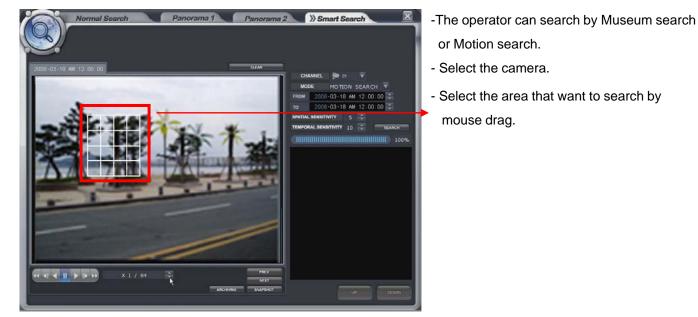


The operator can select the playback location by Drag and drop Timeline bar.

- Select the channel.
- Select the date.
- How to search is almost same with normal search.

SEARCH

Smart Search



- Select the search method. (Museum and Motion)
- Museum search

This search indicates or generates event(consistent/inconsistency) when search is compare with the starting image and the image continuous to occur more than Designated Time on the Designated Accuracy of the Selected Area.

For example, assumpt that a certain object got lost on the museum. Then search the point from before it got lost to, when the object was located(select area ß). Thus, the huge change (accuracy of designated ß) could be grasped.

-Motion search

It is a search method to indicate or generate event when the motion occurs more than Designated Time on the Designated Accuracy of the Selected Area.

For example, to detect the motion of appropriate location(select area β) of the image. Set the accuracy and interval(designated time β), to detect the event. Next start search for the event to occur according to the assigned time interval when there is motion.

- Select the time.(From and To).
- Select the sensitivity and check interval(sec).
- Prev. button: Playback the image of previous log by based on current time.
- Next. Button: Playback the image of next log by based on current time.

ARCHIVING

Archiving





Click the right mouse button on the Live Display screen and Click the ARCHIVING menu.

- Select the "Archiving" icon and press the "Archiving" button.
- Logon display shows and input the password. It shows the backup display.
- Input the "TAG NAME" and check if want to backup the "LOG, TEXT and REC INDEX TABLE" information.
- Select the Start time and End time with timer or timeline bar.
- Click the "query" button. Then it shows data information at "BACKUP INFO.".

1

: Click the button for saving the data after inputting the backup tag.

(The operator can see the saved data from backup Data Management.)



: Click the button for burning the data.



Then it shows "burn" screen. Select the device(CD/DVD,USB)

Foreground : During backup, the operator can not control the other function.

Background: During backup, the operator can control the other function.

ARCHIVING

Archived Data Management

•••••

	MARCHI	VING					
	B Archived Data	Management					
	AVI ARCHIVED LIST						
Archived Data Management Avi Archived List Archived Data Arag NAME BURNED SIZE CO6-09-18 PM 08:59:17 Z2 0 4596 MB CO SNAPSHOT LIST BACKUP DATE TAG NAME BURNED SIZE 2006-09-18 PM 09:12:21 G O S KB CO							
	Contribution C						
	SNAPSHOT LIST						
	BACKUP DATE	1	TAG NAME	BUR	NED	SIZE	
	2006-09-18 PM 091221	G		0	5 KB		
							- II
		_					
							CLOSE
K	1		ALC: NO.	1 1	1		

• The operator can see the saved snapshot image and AVI file form Backup menu and search menu.

: Detailed information

💼 : Delete

😳 : Burning





Click the right mouse button on the Live Display screen and Click the **SETUP** menu and Click the **"SYSTEM**".

Camera -> Title

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• Camera Title: Input the Title and description by virtual keyboard.

Camera -> Color

•••••

9/	p- Gam	era> Color									CAM 💭 01	7
Camera			BRIGHTME	85	CONTRAS		TINT					
Camera	9 👘										BRIGHTNESS	
Alarm/ Event		2						19.55				
_		23		1								050
Display	D PPTZ	CAMERA COLO		100	50 50	H H	50 50	19 19	50			
	PFTL		50 50	10.2	50		50	10	50 50		CONTRAST	
Audio	Poss	7	50		50	1	50	-	50			050
	Paso	8 8			50					8 I		150
User	27							19 (4)				
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Storage		800 15	50 50	19	50 50	1	50 50	11	50 50		SATURATION	
	1	80 10	50	1	50	-	50	1	50			050

• Camera color setup: Select the Brightness, Contrast, Tint, Color. The operator can control the color with live display when clicking the **Section** button.

	🗭 Camer	a> PTZ						and the second s		
Camera			ADDRESS	I PROTOCOL		BAUDRA		ZOOM SPEED		
Camera				Ganz			PARAM			
Alarm/ Event							PARAM	FOCUS SPEED		
	PE	1 - 3		Pelco D			PARAM	A DESCRIPTION OF A DESC		
Display				Pelco D			PARAM	IRIS SPEED		
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Audio	CA	MERA PTZ	SETUP	Pelco D			PARAM	I have been and and and are set.		
	Post	and the second	7	Pelco D			PARAM	P/T SPEED		6
User				Pelco D	T I		PARAM			
		9 10		Pelco D			PARAM	AUTO FOCUS	AUTO	
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Storage Or		15		Pelco D	÷	9,600	FARAM		30	=
		10 16		Pelco D			PARAM	OK	CANCEL	

• Select the address, protocol and Baud rate each camera. The operator can control PTZ detailed setup when clicking the PARAM button.

Camera -> OSD



• Select the covert each channel and main display, spot OSD setup.

Virtual keyboard	\mathbf{x}	Virtual	keybo	oard	_		/		_	_	×
1 2 3 4 5 6 7 8 9	0		@	#	\$	%		&	*	()
ABCDEFGHI	•	a	b	C	d	е	f	g	h	i	F
JKLMNOPQR		j	k		m	n	0	p	q	r	4
STUVWXYZ		S	t	u	V	w	x	У	Z		t

Click Mouse left button double from the location that operator want to input. Then it shows the virtual keyboard. Select each character from virtual keyboard. For using the small character. Click the **s** button.

***** How to use the virtual keyboard

Alarm/Event -> Sensor

(D) Comore	0	ACTIVATION	NORMAL STATE	DESCRIPTION	
Camera		\checkmark	нідн 🔻		•
🛋 Alarm/ Event					
Alarmi Event					•
Display					•
Display					۲
Audio					۲
AUGIO					•
User					
User					۰
Network					•
Network					۰
(a)					•
System	O -				۲
-					۰
Storage	0-				•

Select the Activation, Normal State (High/Low-It is related with sensor type) and input the description.



Alarm/Event -> Video Loss

Select the video loss Activation.

Alarm/Event -> Motion Detection

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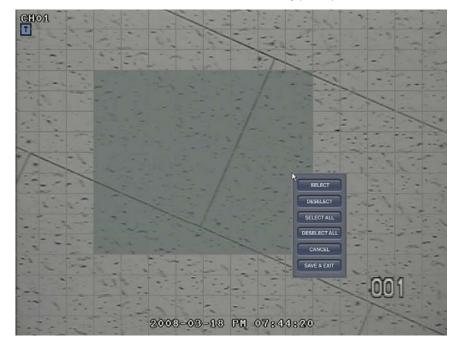
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(@) ····	SETUR	2		_		
	🖆 Alarr	n/Event > N	lotion Detec	tion		
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Alarm/ Event		2 2				
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Select the Motion Detection Activation, Sensitivity (1~10) and Motion Area.



The operator can select the motion area from above screen after clicking the button. After selecting the motion area with mouse drag, click the mouse right button, Then it shows pop-up menu that related with selection.

Alarm/Event -> Storage



- File system Event
- Disk Full When disk full, Activation On/Off.
- Smart Event
- Smart Warning When HDD has trouble, Activation On/Off.
- Smart Check Period Select from 1 hour to 24 hour.

Alarm/Event -> User Defined

.



The operator can make the User Defined Event with current event's mixing.

When happen the over two events at the same time, the operator can setup how it work. (Mixing condition is "AND" not "OR")

Select the Activation each channel.

Setup the detail configuration after entering the "EDITER" with clicking the **EDITER** button or double click the selected channel.

Select the sensor, motion, Videoloss, Storage Event and User defined Event as user want. After selecting it, action type can setup from Event Action Setup.



Alarm/Event -> Event Action -> Digital Out

	🛎 Alarm/E	vent > Eve	nt Acti	on > D	igital Ou	ıt						
		R		ব	-		45		•			
F Camera	-	5		UNKED EVENT ACTIVATION			NORMAL STATE		DWELL TYPE TIME			
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🚔 Alarm/ Event	- <u>-</u>	. z	-	02	v -		HIGH	Ŧ	USE	Ŧ	5 sec	Ţ
		E 3	-		v			Ŧ			5 sec	Ŧ
Display	1	E.4										Ŧ
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Audio										Ŧ		v
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Network			É									
) Network		10	É									
& System			É					Y				Y
& System	EVEN	T ACTION SE	TUP							•		V
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Storage		14	A		Y 💷			•		Ŧ		٧
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			a		¥			٣				

-Linked Event: Select the event that want to assign the action. (Alarm, Motion, Videoloss and User defined)
- Select the Activation on/off.
-Normal state: Select the operation type. (High / Low)
-Dwell Type: use/ Not use Time: 5- 300 second and until pressing the any key.

Alarm/Event -> Event Action -> E-mail Notification



- When happen the selected event, it notify the event with E-mail..
- Select the Activation on/off.
- Select the Sensor, Videoloss, Motion, Storage(Smart alarm, HDD full) and user defined event).
- Input the memo.

ADD button: Please add the User that want to get the E-mail notification.



DELETE button: Delete the User that already registered.

Alarm/Event -> Event Action -> Remote Client Notification



- When happen the selected event, it notify the event to Remote client.
- Select the Activation on/off.

.

- Select the Sensor, Videoloss, Motion, Storage(Smart alarm, HDD full) and user defined event).
- Input the memo.

Alarm/Event -> Event Action -> Video Popup



- When happen the selected event, screen pop-up at the selected monitor.
- After selecting the event (Alarm, motion, User Defined Event) that want to pop-up, select the activation on/off.
- Assign the channel that want to pop-up each Monitor.
- After selecting the channel that want to assign, click the mouse right button. Then channel will be pop-up.
- Assign the pop-up dwell time.

ADD button: Please add the item that want to be pop-up.



DELETE button: Delete the item that already registered.

Alarm/Event -> Event Action -> Buzzer

.



- When happen the selected event, select buzzer on/off.
- After selecting the event (Alarm, motion, Videoloss, User Defined Event) that want to buzzer, select the activation on/off.
- Dwell Type: use/ Not use
 - Time: 5- 300 second and until pressing the any key.

Display -> Screen Template

.

> Setup the display configuration. When operator want to see live display with sequence mode, it is used. This menu should be setup before setup the Main Display Sequence.





The operator can select the screen mode with 1,4,8,9,16 division with clicking above icon.

ADD button: Please add the item that want to be pop-up.

DELETE button: Delete the item that already registered.

EDIT button: Edit after selecting current screen template



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- -When clicking the ADD or EDIT button, it show the above screen. - Select the channel.
- Select the location of channel that want to change.
- Then screen template is made or changed.
- The operator can make new screen template or modify the current screen template

Display -> Main Display Sequence

..........

• Main Display Sequence When start the sequence, the operator select and make the working sequence type.



- Press the ADD button.
- Select the new list (It show blue square)
- Input the name with virtual keyboard and select the dwell time(5-100 sec).
- Click mouse right button.
- Then it show screen template list each division.
- Select the screen template that want to do the sequence.
- The operator can add Max.16EA screen template as same method.
- -When pressing the DELETE button after selecting the list, list is deleted.

- In case of add the current setup, it can be changed after selecting each template of current sequence.

* The Max. list Number is 16EA.

The screen template that can be selected is related with screen template setup of front page.

Display -> Spot#1-4 Display Sequence

.

In case of advance spot, setup method is almost same with main display sequence. The different thing is only one.



The screen template that can select is only two types.(1,4 division)

- Press the ADD button.
- Select the new list (It show blue square)
- Input the name with virtual keyboard and select the dwell time(5-100 sec).
- Click mouse right button.
- Then it show screen template list each division.
- Select the screen template that want to do the sequence.
- The operator can add Max.16EA screen template as same method.
- When pressing the DELETE button after selecting the list, list is deleted.

- In case of add the current setup, it can be changed after selecting each template of current sequence.

* The Max. list Number is 16EA each spot channel.

How to play and stop the sequence.

After clicking mouse right button from live display, select the "SEQUENCE PLAY" or "SEQUENCE STOP" Additionally, press the "SEQ" button from DVR.

Audio

• Setup the audio configuration.

8% No.	SETUP	
	🕽 Audio	
Alarm/ Event	● LIVE AUDIO	
Display		
Audio		
Network	AUDIO RECEIVER BUZZER	
🖉 System 🔘	KEYPAD ON V REMOCON ON V	
	and the second	APPLY UNDO

- Live Audio: Select the Live audio channel.
- Network Audio: Select the audio transmitter and receiver.
- Buzzer ; when pressing the key of front board and Remote controller. Sound on/ off.

SETUP - SYSTEM •••••

User -> User group

	-	lser Group					
Camera	22	USER GROUP					
ĭ		GROUP ID	CREAT	ED BY	DE	SCRIPTION	
🖆 Alarm/ Event 🔘		ADMINISTRATOR	ADMINIS	STRATC			
		MANAGER	ADMINIS	STRATC			
💭 Display			ADMINIS	STRATC			
Audio	í						
User							
		GROUP AUTHORITY					
100 million (100 m							
Network		AUTHORITY	OWNED	AUTHORITY	OWNED	AUTHORITY	OWNED
Ĭ		AUTHORITY STORAGE SETUP	OWNED	AUTHORITY USER SETUP		AUTHORITY REMOTE LOG ON	OWNED
🐉 Network 🛛 😔	-	Contration Section 10	ALC COMPANY	1000 1000 CC			
Ĭ		STORAGE SETUP		USER SETUP		REMOTE LOG ON	

Default user group (administrator, manager, user) can not be delete or edit.

After selecting "ADD" button, the operator can make the new user group with new authority.

When selecting "ADD" button, it show "add group" screen.

It shows the virtual keyboard when click mouse left button double for inputting the text.

D GROUP						
	AUTHORITY	OWNED	AUTHORITY	OWNED	AUTHORITY	OWNED
New Group ID	SETUP STORAGE	\mathbf{V}	SETUP USER		REMOTE LOG ON	\checkmark
escription	SETUP ALARM SETUP EVENT SETUP RECORD	\checkmark	SETUP NETWORK		SYSTEM SHUTDOWN	V
	SETUP CAMERA SETUP DISPLAY SETUP AUDIO	V	SETUP SYSTEM		SEARCH ARCHIVING	\checkmark

After inputting the new group ID and description, click the "ok".

Then select the User group ID.(It shows blue square).

Select the group authority and click "Apply" icon.



ADD button: Please add new group.



DELETE button: Delete user group.



EDIT button: Edit user group.

User -> User

•••••



New ID		
New Passw	d	
Retype Pas	swd	
E - Mail		
Group	ADMINISTRATOR	
Description		

	: ADD
Ð	: DELETE
	: EDIT

The operator can add, delete or edit the new user. When selecting the "ADD" button, it shows "add user" screen. After inputting the ID, PW and E-mail by virtual keyboard, click the "OK".

Network -> Configuration

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DHCP: In case of "Dynamic IP", select the "DHCP"

When clicking the "apply" button, DVR get the IP address automatically after selecting the "DHCP". In case of using the" Static IP", input the IP address and other information manually.

DDNS (Dynamic DNS): This is used with a Dynamic IP address, which may be changed by the ISP at any time.

***** With DDNS, there is no need to enter the IP address on every connection, A name server address is used instead of.

- Setup DHCP to on or manually input the unit IP address.
- Setup DDNS to On, set the DDNS properties (user name, password, and domain name) and reboot the system.
- To access the DVR using the name server address, the format for the address is : http:// [user name].[domain] ([Example: http:// mydvr.dyndns.org) (user name: mydvr.domain: dyndns.org)
- User will need to input all of the correct DDNS information into the Network setup in order for the DVR to be able to update its new IP address to the DDNS server whenever a change occurs.
- If user is using a router in your network configuration, it is the router which must be setup for DDNS, not the DVR.

WEB SERVICE: If do not check this, user can not connect on Internet Explore.

NET CLIENT SERVICE: If do not check this, user can not connect on the Remote software.

IP, GATEWAY, SUBNET MASK and DNS SERVER: Input the each value.

DDNS Server: Input DDNS server domain name.

Net Client Port: Input net client Service Port # (Default:6400).

Web Service Port: Input the Web server port # (Default: 8080).

Max TX Speed: Setup Max Network TX Speed. (56k - 8192k).

After making changes to the Network setup, click Apply. (The system will prompt you to reboot in order to save change.)

Network -> E-Mail Server



USER Account : Enter a username to identify the DVR in email messages.

PASSWORD : If SECURITY is set to ON, enter the password here.

SMTP SERVER : The SMTP outbound email server that should be used to send email notifications.

SMTP SERVER PORT : The outbound email port number.

System -> Information

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Information

- Site Description: Input the name by virtual keyboard
- H/W version: DVR's H/W version
- S/W version: DVR's FW version
- Mac address; DVR's Mac address

Controller connecting

- Setup to control by the keyboard controller.
- Select the System ID, Protocol and Baud rate.

System -> Date/Time



- Date&Time: Current DVR's Date and Time. The operator can edit manually.
- Timezone: Select the Timezone.
- Date and Time format: The operator can change the Date and Time format.
- Network Time server: Input the network time server's domain name for getting the time automatically.
 Auto update and Time: DVR can get the time information automatically with assigned time duration in case of connecting with network.
- The default setup of D.S.T is on.

System -> Update

.





- Firmware Upgrade

The operator can update the F/W by USB device and CD. After inserting the F/W at USB and CD, connect it at the DVR. Select the F/W upgrade button then it shows the above screen. After selecting the F/W from list, select the "upgrade" button. When finishing the upgrade, DVR is re-boot automatically.

- Factory Default : System will be initialized.
- System Configuration

Save: Current configuration will be saved in USB and other device. Load: The configuration that saved from other DVR will be loaded in current DVR.

- Select Language

The operator can select the language. Language may different each system option.

Storage -> Operation

.



Storage -> Utility



Storage -> Disk View



- -Operation mode: Select the overwrite /write once (no overwrite)
- -Internal recording: It shows the internal HDD recording information that installed
- -CD/DVD Media: It shows the internal CD-RW/DVD-RW that installed.

- Format When clicking the "START" button, all data is formatted.
- Check Disk When clicking the "START" button, it check the bad sector of HDD.

- It shows current HDD's information.





Click the right mouse button on the Live Display screen and Click the **CONFIGURATION** menu and Click the "**RECORD**".

Record Mode

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Prece	• RECORD MODE	Record	Intensive Record	Panic Reco	ord		
	NORMAL RECORD			SENSOR CHANNEL	U	ISER DEFINED EVE	NT
	INTENSIVE RECORD		(1 A	01	Y	≜ ×	X
			2 2	🖆 02	Y	≜ ×	V
	PANIC RECORD		907 B	🖆 03	Y	≜ ×	V
	WEEKLY	DAILY	(PP 4	# 04	Y	≜ ×	×.
			5	a 05	Y	≜ ×	V V
			6	6	T	≜ ×	V
			7	6 7	•	≜ ×	V V V
PR	E-EVENT RECORDING TIME		A	€ 08 € 09		≜ ×	V
PO	ST-EVENT RECORDING TIME		9	■ 09	V V		T T
		×	10	■ 10 ■ 11	Ť	a x	
			문화 11 문화 12	± 11 € 12	Ŧ	- A	V V
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					(APPLY	UNDO

- Record Mode

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In case of selecting the "Normal Record" from record mode, The operator can not enter "Intensive Record" setup.

Oppositely in case of selecting the "Intensive Record", The operator can not enter "Normal Record" setup.

- Weekly/Daily

The operator can select the 'Weekly" and "Daily" record setup from 'Normal Record" and 'Intensive Record" setup.

So the DVR will record as daily and weekly setup configuration of "Normal and Intensive record" setup mode.

-Pre-Event Recording Time: When the DVR is not in continuous recording mode, this setting determines the

amount of footage that is always recorded before an event occurs. (motion detection, alarm input etc.)

- Post- Event Recording Time : When the DVR is not in continuous recording mode, this setting determines the amount of footage that is always recorded after an event occurs. (motion detection, alarm input etc.)
- Event Link: Select the sensor channel and user defined event each channel.

Normal Record

Parameter

	RESOLUTION	FRAME RATE QUALITY	AUDIO USED FPS	NO
DAILY	1 O D1	25 🔻 HIGHEST		N.C.
	2 2 2CIF		USED FPS	
WEEKLY	3		100 / 100	E
	4 CIF		• • •	m
	5 D1	A CONTRACTOR OF A CONTRACTOR O	•	
	6 0 2CIF		USED FPS	WED
	7 0 CIF		100 / 100	
	8 CIP	25 🔻 HIGHEST	√ • §	
	😥 9 🔾 D1		• • <u>×</u>	THU
	10 2CIF		USED FPS	
	11 CIF		100 / 100	FR
	12 CIF	25 🔻 HIGHEST	√ • 2,	꼰
	13 O D1		•	
	14 0 2CIF	25 🔻 HIGHEST	USED FPS	SA
	15		100 / 100	H
	16 GIF	25 🔻 HIGHEST	• • • ×	
₹				

 -Drag the time that want to setup by mouse.
 In case of setup differently each time, the color is different.

In case of recording setup, the operator should setup as 4 divided parts.

The operator can setup Max.CIF,120FPS each divided part.

- Select the Resolution.
- Select the Frame Rate
- Select the Quality. (low, standard, high, highest)
- The operator can setup other divided part as same method.
- In case of Audio setup, it is assigned at Nr.1,2,3,4 Channel basically. (It can not be changed)

In case of weekly, it is almost same with daily setup. It can setup each date.

Schedule

The operator can select recording type (Timer, Motion, Alarm, User Defined, Alarm or Motion and Record off)

each time, channel.

Drag the section that want to select and then click the mouse right button.

Then recording option will be appeared. The operator can select the recording option each time and channel.

Rec	ord Mode			Nor	mal	Reco	ord			Inte	ensiv	e Rec	cord			Pani	c Red	cord			_			_	_	×
	TIME	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
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	2					۲		۲						۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲		K
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DAILY	A	É	É	É	É	É	É	É	É	Ľ	É	É	É	É	É	É	É	۲	۲	۲	۲	۲	۲	۲	۲	R
WEEKLY					_		オ	オ	オ	ブ	ズ	ズ	オ	オ	イ	オ	オ	۲	۲	۲	۲	۲	۲	۲		
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	7	-	1	-	2	2	*	-	-	2	1	1	-	2	8	<u>.</u>	1	۲	۲	۲	۲	۲	۲			
	8	-	*	-	*	*	-	-	-	-	*	-	-	<u> </u>	<u> </u>	<u>.</u>	<u> </u>	۲			۲	۲				
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TIMER	13				~												r	AL	ARM	REC		5				
MOTION	14	0			•													• мс	TION	REC						
USER EVT.	-								0									2								SA
MOTION	16								0											/T RE		5				
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Parameter	nedule										DAD PLATE			AVE A		ſ.	DELE			_	APPLY	(U	1DO	1

- Recording setup Save, Load and Delete

The operator can make the various recording setup in DVR. That include the all setup from

Parameter and Schedule.

Load Template: Load the recording setup that already made.

Save as Template: Save the current recording setup.

Delete Template: Delete the recording setup from list.



Intensive Record

.

In case of this record, record will be centralized at channel that event is happened as event priority.

Parameter

Dally WEEKLY	TIME 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 3 CONTINUOUS RECORDING PARAMETER RESOLUTION FRAME RATE QUALTY AUDIO USED FPS 1 D1 1 Y HIGHEST Q 1 USED FPS 3 CIF 1 Y HIGHEST Q 3 / 100 4 CIF 1 Y HIGHEST Q 3 / 100 6 D1 1 Y HIGHEST Q 3 / 100 6 D1 1 Y HIGHEST Q 3 / 100 7 CIF 1 Y HIGHEST Q 3 / 100 8 CIF 1 Y HIGHEST Q 3 / 100 10 2 CIF 1 Y HIGHEST Q 3 / 100 110 CIF 1	17 18 19 20 21 22 23 RECORDING CONDITION Image: State of the st	 Drag the time that want to setup by mouse. In case of setup differently each time, the color is different.
Parameter Schedu	Record at maximum of D1, 30 frame when event arises on the channel		

The setup is same with normal recording setup.

It record as setup under normal condition. But when happening the event on channel, the Recording setup of the channel that event is happened will be changed as D1, 30 FPS automatically.

If happening the event from some channels at the same time, it will share the max. Recording rate properly.

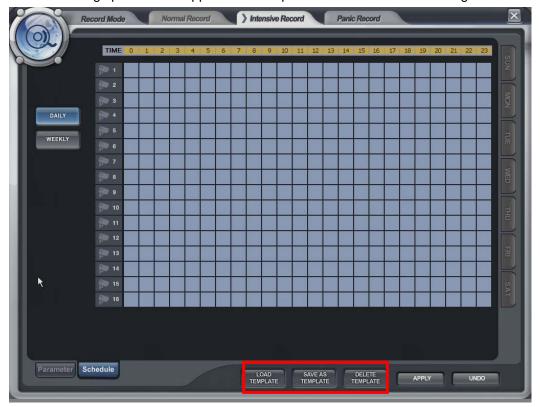
In case of recording setup, the operator should setup as 4 divided parts.

The operator can setup Max.CIF,120FPS each divided part.

- Select the Resolution.
- Select the Frame Rate
- Select the Quality. (low, standard, high, highest)
- The operator can setup other divided part as same method.
- In case of Audio setup, it is assigned at Nr.1,2,3,4 Channel basically. (It can not be changed)
- Select the Intensive recording condition with Alarm, Motion and User defined event.
- In case of weekly, it is almost same with daily setup. It can setup each date.

Schedule

The operator can select the record on/ off each time, channel. Drag the section that want to select and then click the mouse right button. Then recording option will be appeared. The operator can select the recording on/off each time and channel.



- Recording setup Save, Load and Delete

The operator can make the various recording setup in DVR. That include the all setup from

Parameter and Schedule.

Load Template: Load the recording setup that already made.

Save as Template: Save the current recording setup.

Delete Template: Delete the recording setup from list.



Panic Record

When pressing the panic button or detecting the panic alarm, recording condition is changed as panic record setup.

Record Mode	Normal R	ecord	Intensiv	e Recon	4) P.	anic Record		_	×
		RESOLUTION	FRAME RAT	0204	UALITY		AUDIO	USED FPS		
	1	🔘 D1			BHEST	V	4 1			
	2	2CIF			SHEST	V	4 22	USED FPS		
	3	CIF		1000	BHEST		4 3	100 / 100		
	4				HEST	V	€.			
	5	G D1			BHEST	V	€ ×			
	6	2CIF			HEST	V	€ x	USED FPS		
					HEST	V	€ ×	100 / 100		
	8	CIF	25	т ню	HEST	V	€ ×			
	9		25	т ню	HEST	T	€ ×			
	10	D1	25	т ніс	HEST	T	4 2	USED FPS		
	11	2CIF	25	т ню	GHEST	V	€ ×	100 / 100		
	12	CIF	25	🔻 ніс	HEST	V	€ ×	100 / 100		
	13		25	т ню	HEST	V	€ ×			
	14	D1	25	т ню	HEST	T	€ k			
	15	2CIF	25	т ніс	HEST	T	€,	USED FPS 100 / 100		
	16	CIF	25	т ню	HEST	T	€,	100 / 100		
			LOAD TEMPLATE		SAVE A TEMPLA		DELETE TEMPLATE	APPLY	UNDO	

In case of recording setup, the operator should setup as 4 divided parts.

The default setup is CIF, 30FPS.

Setup method is same with normal record setup.

The operator can setup Max.CIF,120FPS each divided part.

- Select the Resolution.
- Select the Frame Rate
- Select the Quality. (low, standard, high, highest)
- The operator can setup other divided part as same method.
- In case of Audio setup, it is assigned at Nr.1,2,3,4 Channel basically. (It can not be changed)
- Recording setup Save, Load and Delete

The operator can make the various recording setup in DVR. That include the all setup from

Parameter and Schedule.

Load Template: Load the recording setup that already made.

Save as Template: Save the current recording setup.

Delete Template: Delete the recording setup from list.

SEQUENCE

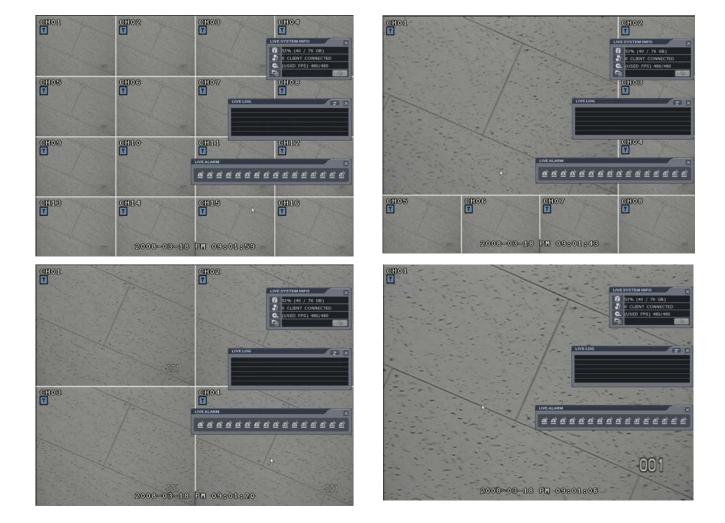


..........



Click the right mouse button on the Live Display screen and Click the "SEQUENCE PLAY" and "SEQUENCE STOP".

 Select the "SEQUENCE PLAY" icon and press the "SEQ" button. Then it shows installed sequence display. (Sequence Play/Stop). It is related with "Display -> Main Display Sequence". Please setup the Main Display Sequence firstly.



DIGITAL ZOOM



•••••



Click the right mouse button on the Live Display screen and Click the "DIGITIAL ZOOM".

CHO1	CH05	CH06	CHO7
U	1 1 2	22.	F 1
		A	- 1 -
12 28		11.	
A Contract Pro-			- /
CH08	CHO9	CH10	CH11
·		5	
1 - P - 1	P1	theme is	*
* **	P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
	P		and the second sec
	(P)		
CH12	013	CH14	CH15
CH12	99.92	CH14	CH15
	99.92	CH14	CH15
	99.92	CH14	CH15
	013 9 9		CD15
	013	CH14	CH15
	013 9 9		CH15
	013 9 9		CE1115
			GEN15

Click solution for returning to live display.

Click the mouse right button for changing the channel. Then it shows the channel list.

Select the channel that want to change.

Location can be controlled by Mouse drag and Zoom in/out can be controlled by Mouse wheel.

REMOTE SW INSTALLATION

System Requirement

- ① Main Board (CPU): Pentium-500(Minimum), Pentium 4 recommend
- 2 OS: Higher than Windows 2000, DirectX 7.0A
- ③ Memory (RAM): More than 128 M
- ④ VGA: Graphic card that support the DIRECT-X ※IMM4 Codec (When Playback Backup File)

🖟 RemoteAgent 📃 🗖 🔀	🙀 RemoteAgent 📃 🗆 🗙
Welcome to the RemoteAgent Setup Wizard	Confirm Installation
The installer will guide you through the steps required to install RemoteAgent on your computer. WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	The installer is ready to install RemoteAgent on your computer. Click "Next" to start the installation.
Cancel < Back Next >	Cancel (<u>B</u> ack <u>N</u> ext)
RemoteAgent	Installation Complete
RemoteAgent is being installed. Please wait	RemoteAgent has been successfully installed. Click "Close" to exit.
Cancel Cancel Next >	Cancel < <u>D</u> ack. <u>D</u> lose

- ① Open CD-ROM Drive and Run the RemoteSW' package. then Appear Setup Menu.
- (2) Close All Running Software and Press Next to Move Next Step.
- 3 Showing Progress of Copy of Files.
- ④ Finish DvrRemoteAgent Program Installation.

REMOTE SW INSTALLATION

Introduction

.



- ① Main Display : Shows single or multi-channel view of cameras connected to the DVR.
- 2 Camera Selection Buttons : Indicates Camera #; click button to display a selected camera.
- ③ Minimize / Exit : Minimize DVR Client Window (to taskbar) or Exit Remote Agent.
- ④ Date/Time Display : Shows current DVR System Date/Time
- ⑤ SEARCH : Enter Search Mode to Search and Playback Recorded Video SETUP : Set up properties of Remote Agent, including the list of DVR units to connect to. CONFIG : Allows Remote Configuration of a connected DVR unit.
- 6 DVR Selection : Choose a DVR to connect to with the Remote Agent.
- Connect : Connect to selected DVR.
 Disconnect : Disconnect from selected DVR.
- 8 Screen Division Selection : Change Screen Division Mode (1/4/9/16/36,64 view, sequence, full screen)

Sequence/Manual Switch/Full screen

- (9) Begin Saving to AVI file : Begin Saving Live or Playback Images to the local PC in AVI format.
- 1 Event Log Viewer : Display Current Event Log & Jump to Event for Playback.
- (1) PTZ Control Button : Control Camera Pan, Tilt, Zoom, & Focus (for supported PTZ devices only)
- 2 Audio Button and Alarm : Control Bi-Directional Audio, Mute, and Toggle Alarm (On/Off).
- (13) Quit : Exit Remote Agent.
- (4) Connection Status: Indicates the Network Status of a connected DVR.

REMOTE SW LOCAL SETUP

nnect Manager Configuration	DVB Information
🖃 📥 Site	2 Name : Test
🖻 📁 Test	IP / Domain Name : 192.168.50.2
	Port: 6400
	User ID : ADMINISTRATOR
	Password :
	Comment Antionent
	Over Assignment DVR
	1 2 3 4 5 6 7 8 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 -
	x x x x x x x x x x x x x x x x x x x
	<u> </u>
	X X
	X X X X X X X X X X X X X X X X X X X
	<u> </u>
	X X X X X X X X X X X X X X X X X X X
	- Evenic
	Sustem Video Video
	Monitoring audio : 1 V
	✓ Audio out ✓ Alarm out

🥖 Local Setup

- ① Group & DVR list.
- 2 DVR Information.
- ③ Camera Assign : Setup camera.
- ④ Option Check.(Event-system, alarm, video, record & In/Out)
- 5 Add, modify, delete group.

Add Group

.

Local Setup 🛛 🔀	Local Setup
Connect Manager Configuration	Connect Manager Configuration
Group DVR Information Name: IP / Domain Name: Port: UserID: Password:	Group DVR Information DVR Information IP / Domain Name : Pot: User ID : Password :
Correct Assignment DVR Ciert DVR X </td <td>Cancel Assignment Input Group Name Group Name OK Cancel X X X X X X X X X X X X X</td>	Cancel Assignment Input Group Name Group Name OK Cancel X X X X X X X X X X X X X
Event System Alam Video Record In/Out In/Out Audio out Alam out	Event System Alam Video Record Monitoring audio: 1 Connection retries: 3 Video out Alam out
ADD MODIFY DELETE	ADD MODIFY DELETE

① At 'site' of left upper side, right click the "Add Group".

2 Input the Group name.

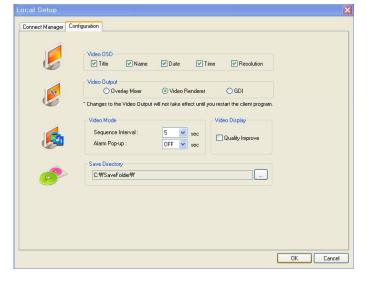
REMOTE SW LOCAL SETUP ocal Setup Connect Manager Configuration Connect Manager Configuration roup Site Test Test Group Group Site DVR Informal Grou **DVR** Information TEST Name Name lest ain Name 1921.168.50.2 192.168.50.2 IP / Dom IP / Domain Name Port 6400 Port 6400 ADMINISTRATOR User ID ADMINISTRATOR User ID : Password Password Client DVF Clien DVE Event System Alarm Event System Alarm Record Video Video Record Monitoring audio : Monitoring audio : 1 In/Ou Connection retries : 3 × In/Out Connection retries : 3 ~ 🗹 Audio out Alarm out Audio out Alarm out ADD MODIFY MODIFY DELETE OK Cancel ſ OK Cancel

③ Input DVR information.(name, IP, port, ID, PW)

④ Set camera position, check option and press 'ADD'.⑤ New DVR list is shown on the left upper side.

Configuration

.



- ① Video OSD : Select screen information. (title, name, date, time)
- Video output : Select video output method.
 - Overlay Mixer : Output without passing through CPU.
 - Video Renderer : Output through CPU.
 - GDI : When you cannot see video by upper 2 way, use this way.
- ③ Video mode
 - Screen switching interval : During the monitoring, select screen rotation interval time(2~300sec.)
 - Alarm pop-up : Pop-up time of alarm happened channel on (2~60sec.) /off.
- 4 Saving Directory : Designate remote PC backup image saving folder.

REMOTE SW LOCAL SETUP

Selection Network ID

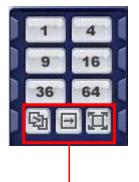
.



- Select I/D to Connect Server.
- I/D can be Add, Change, and Delete at Setup.

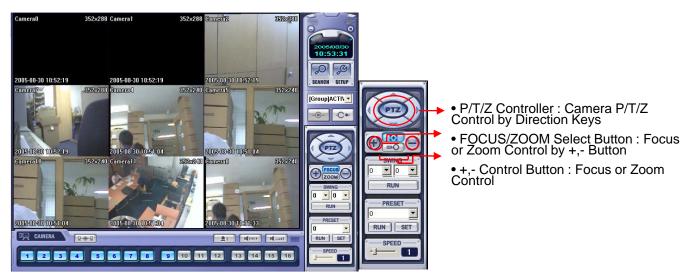
TIP * Multi DVR Client 4EA DVRs can be control the live view, search the data, backup data and setup about each channel at the same time.

Screen Division Selection



- 1*1 View : Showing One (1) Video which User Selected. (Selection Video by Camera Selection Button)
- 4*4 View : 4 Screen Division Mode.
- 9*9 View : 9 Screen Division Mode.
- 16*16 View : 16 Screen Division Mode
- 32*32 View : 32 Screen Division Mode
- 64*64 View : 64 Screen Division Mode
- Auto switch : Screen Mode Showing One by One (Same at division mode)
- Manual switch : Screen Mode Showing One by One by click manually.
- Full Screen View : Present Video Move to Full Screen Mode. Mouse Double Click when Return Previous.

*Mouse Double Click Make the Same Function as Full Screen.



PTZ CONTROL

REMOTE SW LOCAL SETUP

AVI File Conversion

.

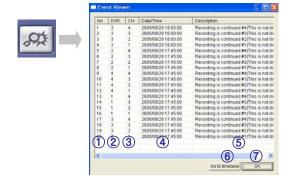
Now saving live video	
To stop saving avi file, press 'Stop' l	outton.
Ļ	
Saving AVI file complete	X
AVI Files	
ILV_D00_C00_050829174402_050829174403.avi ILV_D00_C01_050829174402_050829174403.avi ILV_D00_C02_050829174402_050829174403.avi ILV_D00_C03_050829174402_050829174403.avi ILV_D00_C02_050829174402_050829174403.avi	1
LV_D01_C01_050829174402_050829174403.wi	×
	144

- Click AVI Conversion Button to Start AVI File Conversion.
- During AVI Conversion Showing a Message and before Click 'Stop" Save AVI File continuously .

• 'Press 'Stop' to Open Designate File Name & Saving Location, and Save AVI File.

- Saved AVI File can Open Ordinary Moving Picture Player or Backup Player.
- Moving Picture Player Codec Version Need Higher than Divx 5.1 & IMM4 Codec.

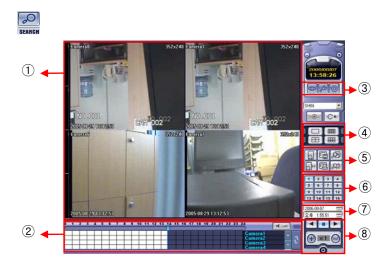
Event Viewer



- 1 Indicate Event Occurred Order No.
- 2 Indicate Event Occurred DVR No.
- ③ Indicate Event Occurred Camera No.
- ④ Indicate Event Occurred Time & Date
- (5) Indicate Event Detail Description
- (6) After Select Event, Move Search Bar in Search Mode
- ⑦ Return to Search Main to Play Selected Event Image

Search Function Introduce

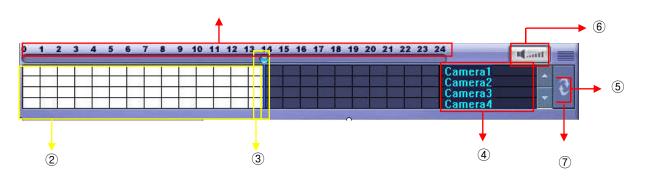
.........



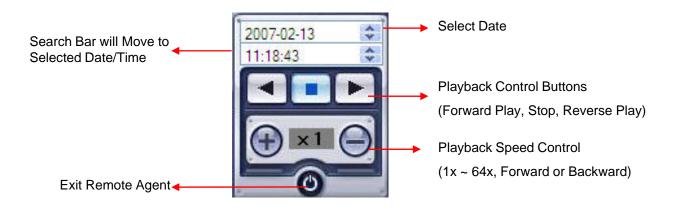
- ① Search Screen Playing Selected Video.
- 2 Search Bar Search & Indicate Camera Recording Situation by Time Bar .
- 3 LIVE Return to Watch Mode.
 - SETUP Open Setup to Change Network Setup or Option.
- 4 Screen Division Selection Change Playing Screen Division Mode .
- (5) SEARCH Option Backup Video or Search Event.
- 6 Camera Selection Button Select Camera at the 1*1 View .
- 1 Quick Search Find Image to Designate Date & Time.
- (8) Search Controller Control Playing Video.

Search Method

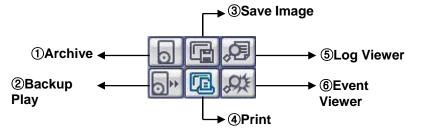
.



- (1) Indicates the Time of Day (0 ~ 24 hours) on Search Timeline.
- 2 Indicates Recording Mode (Blue : No Recording, Red: Recorded Images Present)
- ③ Search Bar : Drag bar with the mouse to search through recorded video on the timeline.
- ④ Indicates each individual channel on the timeline.
- 5 If there are 5 or more channels, you may scroll through the channels using the arrow buttons.
- 6 Adjust the volume of the audio playback (if audio is present in the recording).
- O Refresh Recording Information Window



Search Option



- Archive – Backup Image from Server to Remote PC.

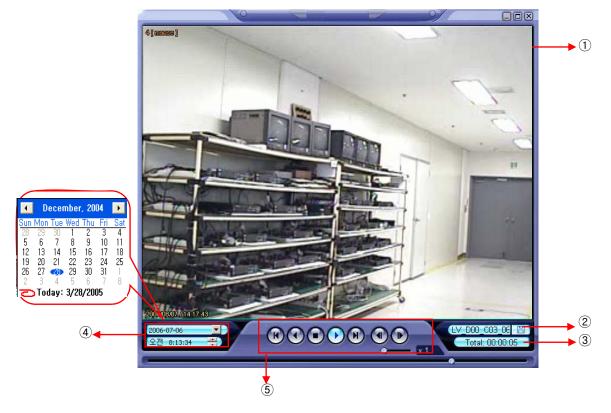
Archiving 🛛 🔀	
Time Range Start Time : 2006-10-03 ♥ 14:07 ♥ End Time : 2006-10-03 ♥ 14:07 ♥ Channel	Time Range Time Hange Start Time : 2006-10-03 ▼ 14:08 End Time : 2006-10-03 ▼ 14:08
Ch-1 Ch-2 Ch-3 Ch-4 Ch-5 Ch-6 Ch-7 Ch-8 Ch-9 Ch-10 Ch-11 Ch-12	- Enter the Starting and Ending Date/Time.
Ch-13 Ch-14 Ch-15 Ch-16	Channel : Check each channel to include in the Archive
Include Audio Select All Deselect All	 Include Audio : (check/uncheck) to include Audio in Archive.
OK Cancel	Select All / Deselect All : Select/Deselect All Channels.

• Press OK to begin the Archiving process. As each AVI file is written to the PC, the system will display status.

Archiving Status	X
2	
Archiving(1/4) is progressing From : DVR(1) Channel 1 2006/10/03 13:13:00 - 2006/10/03 14:13:00 To:C:WNB_D01_C01_0610031313_0610031413_(GMT+00.00	<
Canc	;el

• When the Archiving process has completed, the newly-created AVI files will be available for viewing.

- Backup Play (DVR Player) - Transfer to DVR Player



- ① Showing Image (Possible to Only 1*1View Mode).
- Backup File Open to Play First Video.
 Ex. : ch02_04131730_04131735.rec
 (Backup File for # 2 ch. Apr.13, 17H30M ~17H35M)
- ③ Indicate total playing time. _____
- ④ Indicate Present Time & Date and Possible to Search Time & Date.
- (5) Search Controller, the Same Way of Previous Search.



• Backup Player can be run independently of the Remote Agent software.

- Save Image – Capture Image and Save to Local PC

Save As					? 🗙
Savejn: 🗀	DVR Remote Agent	-	+ 🗈	-111 *	
File <u>n</u> ame:				<u>S</u> ave	
Save as <u>t</u> ype:	BMP type(*.bmp)		-	Cance	<u>. </u>

- Click 'Save Image' Icon During Playing Video.
- Designate File name, File Type (JPG,BMP), and Location and Press Saving.
- Conversion and Saving Image from Remote Viewer.

- Print Image - Present Image Capture and Print Out Image

Print	
Printer-	
<u>N</u> ame:	hp deskjet 5100 series
Status:	Ready
Type:	
Where:	
Comme	at:
Print ran	ge Copies
• <u>A</u> II	Number of <u>c</u> opies: 1 🛨
C Pag	es from: to:
С <u>S</u> el	ection
	OK Cancel

- During Play Video, Click 'Print Image' .
- After Selecting Printer, Start Image Printing.
- Print Out Remote Viewer Image.

Start Ti	me	2006-10-03 💌 13:16:3	Search
End Tir	ne	2006-10-03 💌 14:17:3	15 🗢 🗹 Timer 🔽 System
No	СН	Date/Time	Description
		2006/10/03 13:47:34	Remote Log Off
		2006/10/03 13:47:35	Remote Log On
		2006/10/03 14:04:48	Remote Log Off
	6	2006/10/03 14:05:03	Remote Log On
3 (4	5	6
			<< 1 v >> Go to timelane OK

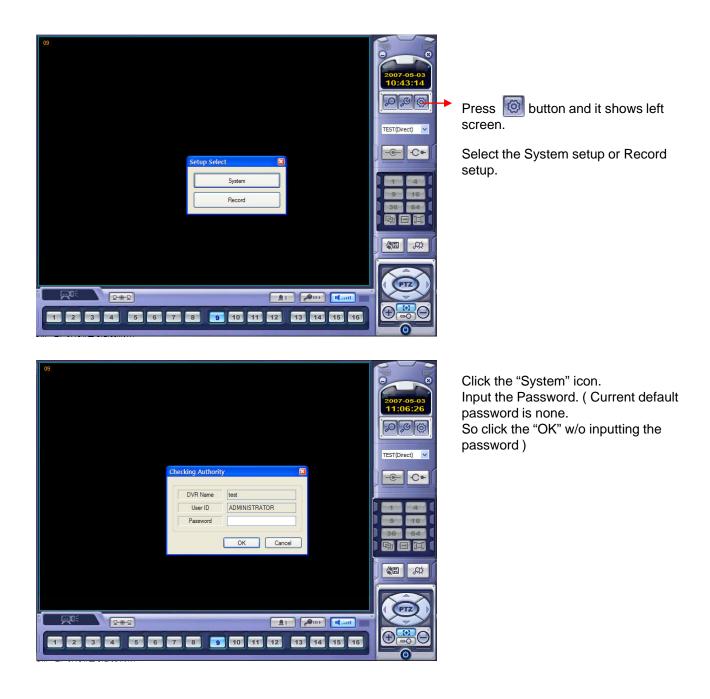
- Log Viewer - Find Video from the DVR Event Log.

- Select Starting Date/Time and Ending Date/Time from which to search for Event Log events.
 Press Search Button to Search and View Search Results.
- 2 Choose the DVR to Search.
- ③ Indicates the order in which events in the Event Log occurred.
- ④ Indicates the Camera # on which the event occurred.
- (5) Indicates the Date/Time when the event occurred.
- 6 Description of the event.
- 1 Move to Previous Page of Search results.
- (8) Move to Next Page of Search results.
- 9 Select a page of Search results to view.
- 10 Go to Selected Event on the Search Timeline.
- 1 Return to Search Window.

No	DVR	CH	Date/Time	Description
1	shin-0	4	2006/10/03 14:15:00	Recording is continued #4(This is not di
2	shin-0	3	2006/10/03 14:15:00	Recording is continued #3(This is not di
3	shin-0	1	2006/10/03 14:15:00	Recording is continued #1 (This is not di
1	2	3	4	(5)
<				>

- Event Viewer - Showing Present Event in Server & Find Image

- ① Indicates the order in which events occurred.
- 2 Indicates the DVR # on which an event occurred.
- ③ Indicates the Camera # on which an event occurred.
- ④ The Date/Time during which the event occurred.
- 5 Description of event.
- 6 Go to Selected Event on the Search Timeline.
- O Return to Search Window.



Camera

ITR1648 System	m Setup		×	HTR1648 System	m Setup									
Main Menu	Sub Menu	Title		Main Menu	Sub Menu	Color								
Camera		Title	Description	🔵 Camera			Brightnes:	s	Contrast		Tint		Color	
Camera	Title	1 CH01		Camera	Title	1	50	-	50	-	50	-	50	-
		2 CH02				2	50	-	50	-	50	-	50	-
- Alarm		3 CH03		Alarm		3	50	-	50	-	50	*	50	*
Alarm Event	Color	4 CH04		Alarm Event	Color	4	50	-	50	-	50	-	50	-
		5 CH05		C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.		5	50	-	50	-	50	-	50	-
		6 CH06			Concession of the local division of the loca	6	50	+	50	-	50	-	50	-
Display	PTZ	7 CH07		O Display	PTZ	7	50	-	50	-	50	-	50	-
6-200	112	8 CH08		1.111 S. C. C. C.	P12	8	50	• •	50	-	50	•	50	+ + + + + + + + + + + + + + + + + + + +
		9 CH09				9	50	-	50	-	50	-	50	-
Audio	_	10 CH10		🖉 Audio		10	50		50	-	50	*	50	-
Audio	Covert/OSD	11 CH11		Audio	Audio Covert/OSD	11	50	-	50	-	50	-	50	-
		12 CH12				12	50	- -	50	-	50	- -	50	-
		13 CH13		1000		13	50	-	50	-	50	-	50	-
User		14 CH14		User		14	50	-	50	-	50	-	50	-
10.00.00000000		15 CH15				15	50	-	50	-	50	-	50	-
		16 CH16				16	50	-	50	-	50	-	50	-
			Apply Cancel									Apply		Cancel

Title: Input the name and description after selecting the channel with mouse.

Color: Select the Brightness, Contrast, Tint, Color each channel.

Address 1 1 2 2 2	Protocol Baud Pate Pelco D ▼ 9500 ▼ Pelco D ▼ 9500 ▼	Camera Alam Event Display	Title 1 2 3 Color 4 5 6	Covert Main Display OSD Trite Status Time Border Line	V V White V
2 2 • • • • • • • • • • • • • • • • • •	Pelco D • 9600 •	Alarm. Event	Color 2 3 4 5 6	Status Time	
3 3 • • 4 4 • • 5 5 • • 6 6 • • 7 7 7 • 8 8 • 9 9 • •	Pelco D • 9600 •		Color 4 5 6	Status Time	
4 4 5 5 6 6 7 7 8 8 9 9	Pelco D • 9600 •		Color 4 5 6	Time	
5 5 • 6 6 • 7 7 • 8 8 • 9 9 •	Pelco D • 9600 •		5 6		
6 6 • • • • • • • • • • • • • • • • • •	Pelco D ▼ 9600 ▼ Pelco D ▼ 9600 ▼ Pelco D ▼ 9600 ▼	Ø Display	6	Border Line	145.4
7 7 • 8 8 • 9 9 •	Pelco D	Ø Display			White 💙
8 8 •	Pelco D 👻 9600 👻	Uispiay	7	Gui Alpha	0 100
9 9 -			PTZ 8	Gui Alpha	
	Pelco D 🔹 9600 👻		9	Motion Sensor	Enable O Active Area
	Pelco D 🔹 9600 👻	Audio	10	Display	O Inactive Area
	Audio	Covert/OSD 11			
12 12 -	Pelco D 💌 9600 💌		12	Spot OSD	
13 13 -	Pelco D 🚽 9600 🗸		13		
		User			
				Status	
16 16 💌	Pelco D 👻 9600 👻		16	Time	
				OSD Color	White 🗸
	14 14 -	14 14 ▼ Pelco D ▼ 9600 ▼ 15 15 ▼ Pelco D ▼ 9600 ▼	14 14 ▼ Pelco D ▼ 9600 ▼ 15 15 ▼ Pelco D ▼ 9600 ▼	14 14 • Pelco D • 9600 • 14 14 • 14 • 14 • 14 • 14 • 14 • 14 • 14 • • 14 • • 14 • • 14 • • • • 14 • • • • • • • 14 • • • 14 •<	14 14 Pelco D 9600 V 15 15 Pelco D 9600 V

PTZ: Select the address, protocol, Baud rate each channel.

Covert/OSD: Select the covert and main display, spot OSD setup.

Alarm/Event TR1648 System X Sub Menu Main Menu Sub Menu Operation Type N/0 Description Activatio Camera Camera Sensor Event Sensor Event Alarm Event Video Loss Event 0 Video Loss Event O Display Motion Detection Event Detection 9 10 11 12 13 14 15 16 10 11 12 13 14 15 Audio Storage Event Audio orage Ever User User User Event User User Event Event Action Event Action Apply Cancel Apply Cancel

Sensor Event: Select the Activation, Active State (N/C, N/O-It is related with sensor type) and input the description.

TR1648

Main Menu O Camera

Alarm Event

O Display

User

Audio

0

Sub Menu

Sensor Event

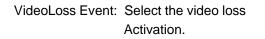
Video Loss Event

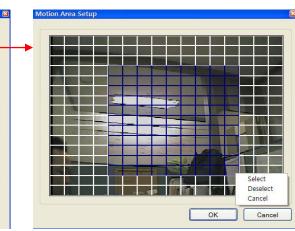
Motion Detection Event

Storage Event

User Event

Event Action





Motion Detection Event: Select the Motion Detection Activation and Sensitivity(1~10) and Motion Area.

Cancel

Select the "AREA" icon. It shows above screen. Select the motion area by Mouse drag then choose one of menu (select, deselect, cancel)

Storage Event

ITR1640 Sy	stem Setup			×
Main Menu	Sub Menu	Storage Event		
 Camera 	Sensor Event	FILE SYSTEM		
Alam Event	Video Loss Event	Ditk Full	Rec Storage	
 Display 	Motion Detection Event			
 Audio 	Storage Event			
User	User Event			
	Event Action			
			Apply	Cancel

Disk Full: When disk full, Activation On/Off.

User Defined Event Editor
Event Index 01
Description
Condition
[S01] & [M01] & [V01]
Sensor 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Motion 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Video Loss 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 OK Cancel

- User Event

Event 5 BOS UE vi 5 BOS UE vi 6 6 BOS UE vi 7 6 BOS UE vi 7 0 BOS UE vi 7 10 FIO UE vi 7 10 FIO UE vi 7 11 BOS UE vi 7 12 BOS UE vi 7 13 BOS UE vi 7 13 BOS UE vi 7 14 BOS UE vi 7 15 BOS UE vi 7 16 BOS UE vi 15 15 BOS UE vi 15 15 BOS UE vi 15 16 BOS UE vi 15	Alam		2	#02 UEvt		
Alam 2 1020 UEvi 2 Burnet 3 1020 UEvi 2 Display Event 4 100 UEvi 2 Display Motion 7 1020 UEvi 2 Provide 9 1030 UEvi 2 1020 UEvi Audo Stonge Event 10 100 UEvi 2 10 100 UEvi 10 100 UEvi 10 10 100 UEvi 10 110 UEvi 11 11 11 11 11 11 11 Uter Uter Event 13 114 UEvi 13 114 UEvi 13 115 UEvi 11 115 UEvi 11 114 UEvi 11	Alarm Event	Marc Loss		#02 UEvt	10	
Alime Udio Losa 4 100 UE vit Every Every 4 100 UE vit Display Motion 6 100 UE vit Display Detection 0 100 UE vit Every 10 100 UE vit 10 Audo Stonge Event 11 111 UE vit 12 112 UE vit 12 112 UE vit 13 114 UE vit 13 115 UE vit 14 114 UE vit 13 115 UE vit 15 115 UE vit 15 115 UE vit	Alarm Event	Miles Loss	3			
Event 4 Mol Devi Bevert 5 Mol Devi Display Mol Devi 6 Display Device 7 Audo 300 Bevi 2 Audo 300 Bevi 10 10 10 UBevi 1 11 11 Devi 1 12 12 UBevi 1 13 13 UBevi 1 14 14 UBevi 1 15 115 UBevi 1 16 116 UBevi 1 16 116 UBevi 1	Event				10	
Compley 5 4050 UP 4	a roin		4	#04 UEv1	20	1.0
Display Metion Benefition 7 107 UE-4 Image: Comparison of the com	Eve	Event	Event 5			
Display Detection 0 000 Up-4 9 100 Up-4 9 Audo Scopp Event 11 11 Up-4 11 11 11 Up-4 11 11 User User Event 13 11 Up-4 11 User User Event 13 11 Up-4 13 11 11 Up-4 13 11 Up-4 14 12 13 14 Up-4 15 15 Up-4 13 11 SUp-4 15 15 Up-4 15 13 11 SUp-4 15 15 Up-4 15		And and a second second	6		33	
Evere	Display	Detection	7	#07 UEvt	12	
Audo Songe Event Songe Event Uset Uset User			.0		2	
Audio Songe Event 11 111 <t< td=""><td></td><td>9</td><td></td><td>10</td><td></td></t<>			9		10	
Uter: User Event 1 and 1	Auto	Storage Event	10	#10 UEvt	100	
Uter User Event 13 #13/UEv 14 #14/UEv 15 #15/UEv 16 #15/UEv 17 #12/UEv	P 94000		11			
User User Event 14 #14 UEver 15 #15 UEver 16 #15 UEver 16 #15 UEver 17 #17 UEver 16 #15 UEVER 17 #15 UEVER			12		3	
15 115 UEV 16 116 UEV		Concession in the	13		10	
16 #15 UEM =	User	User Event			28	
17 #121E-4	Contraction of the local division of the loc		15		10	
17 #1716-4			16		22	
		Event Action	17		33	1.1
		EVer Actor			10	
19 #19 UEvt			19) #19 UEvt	10	~

Select the user event Activation

Click the "Edit" then it shows above screen.

The operator can make the User Defined Event with current event's mixing.

When happen the over two events at the same time, the operator can setup how it work.

(Mixing condition is "AND" not "OR")

Setup the detail configuration after entering the "Editor" with clicking the "EDIT" button.

Select the Alarm, motion, Videoloss, Internal HDD, External HDD, User Defined Event as user want.

After selecting it, action type can setup from Event Action Setup.

- Event Action

* Relay out

Sensor Event				1.0	erricse Lilens	Notfic	ation Buzzer	8	
			Linked Event		Operationt		Dwe	d Tim	
Concernance and			Linked Livers		Uperations	ype	Type		Time
	1	1	Sensor #01 Evt		Low		LATCHED		5 SEC +
	2	1	Sensor #02 Evit		Low		LATCHED		5 SEC ·
Event	3	10	Sensor #03 Evt		Low	-	LATCHED		5 SEC +
	4	1	Sensor #04 Evil	•	Low		LATCHED		5 SEC ·
	5	×	Sensor #05 Evil	+	Low	*	LATCHED	+	5 SEC -
		×	Sensor 206 Evt	*	Low	-	LATCHED	*	5 SEC *
Pada a		*	Sensor #07 Evil		Low	*	LATCHED		5 SEC -
		ef	Sensor #08 Evt		Low		LATCHED		5 SEC .
Storage Event		*	Serioor #09 Evil	-	Low	-	LATCHED	-	5 SEC +
	10	8	Sensor #10 Evt	-	Low	-	LATCHED		5 SEC -
	11	1	Sensor #11 Evil	-	Low		LATCHED		5 SEC .
Deer Fuerd	12	10	Sensor #12 Evil		Low		LATCHED		5 SEC +
Same Frank	13	1	Sensor #13Evt	-	Low		LATCHED		5 SEC ·
	14	-	Sensor #14 Evt	-	Low	-	LATCHED	-	5 SEC -
	15	1	Sensor #15 Evt	•	Low	-	LATCHED		5 SEC -
Event Action	16	K	Sensor #16 Evt	-	Low	*	LATCHED	*	5 SEC V
	Video Loss Event Detection Event Storage Event User Event Event Action	Event 3 Motion 5 Detection 6 Event 7 Storage Event 9 10 11 User Event 12 12 13 15 15	Video Lone 2 r Event 3 a Motion 5 a Detection 5 a Strate 7 a Strate 9 a 10 a a User Event 12 a 13 a a	Webb Long 2 M Sensor BD2 in M Sensor BD2	Webs Loss 2 pt Sensor B02 Erf 3 Evend 4 of Sensor B02 Fr 4 of Sensor B02 Fr 5 Sensor B04 Fr 5 of Sensor B04 Fr 5 of Sensor B04 Fr 5 of Sensor B04 Fr 7 Sensor B05 Fr 9 Sensor B05 Fr 9 9 Sensor B05 Fr 10 8 Sensor B05 Fr 10 8 Sensor B05 Fr 10 3 Sensor B05 Fr 10 3 Sensor B05 Fr 10 3 Sensor B16 Fr 10 3 Sensor B16 Fr 10 3 Sensor B16 Fr 10 3 Sensor B12 Fr 10 3 Sensor	Video Lone 2 2 6 Sendo BD2 Evit Low Event 3 6 Sendo BD2 Evit Low Motion 4 6 Sendo BD2 Evit Low Detection 5 6 Sendo BD5 Evit Low Detection 5 6 Sendo BD5 Evit Low Sendo Event 7 6 Sendo BD5 Evit Low 9 6 Sendo BD5 Evit Low Low 10 8 Sendo BD5 Evit Low Low 11 11 Sendo BD5 Evit Low Low 12 5 Sendo BD5 Evit Low Low 13 5 Sendo BD5 Evit Low Low	Motion 2 8 Second BD2 For Low - Event 3 6 Second BD2 For Low - Motion 3 6 Second BD2 For Low - Detection 5 6 Second BD2 For Low - Detection 5 6 Second BD2 For Low - Scrage Event 9 6 Second BD2 For Low - 9 6 Second BD2 For Low - Low - 10 8 Second BD2 For Low - - Low - 11 8 Second BD2 For Low - <t< td=""><td>Mideo Loss Event 1 26 Sensor BDT Evt Low × LATCHED 2 45 Sensor BDT evt Low × LATCHED Mideon 3 65 Sensor BDT evt Low × LATCHED Mideon 5 85 Sensor BDT evt Low × LATCHED Event 5 85 Sensor BDT evt Low × LATCHED 2 65 Sensor BDT evt Low × LATCHED 7 26 Sensor BDT evt Low × LATCHED 9 26 Sensor BDT evt Low × LATCHED 9 26 Sensor BDT evt Low × LATCHED 10 5 Sensor BDT evt</td><td>Mides Less Event 1 Bits Senze BD EM Low ATC/CID w 2 M Senze BD EM Low ATC/CID w ATC/CID w 3 M Senze BD EM Low ATC/CID w ATC/CID w Mideren Event 3 M Senze BD EM Low w ATC/CID w Mideren Event 5 M Senze BD EM Low w ATC/CID w 8 Senze BD EM Low w LATCHED w LATCHED w 9 M Senze BD EM Low w LATCHED w LATCHED w 9 M Senze BD EH Low w LATCHED w</td></t<>	Mideo Loss Event 1 26 Sensor BDT Evt Low × LATCHED 2 45 Sensor BDT evt Low × LATCHED Mideon 3 65 Sensor BDT evt Low × LATCHED Mideon 5 85 Sensor BDT evt Low × LATCHED Event 5 85 Sensor BDT evt Low × LATCHED 2 65 Sensor BDT evt Low × LATCHED 7 26 Sensor BDT evt Low × LATCHED 9 26 Sensor BDT evt Low × LATCHED 9 26 Sensor BDT evt Low × LATCHED 10 5 Sensor BDT evt	Mides Less Event 1 Bits Senze BD EM Low ATC/CID w 2 M Senze BD EM Low ATC/CID w ATC/CID w 3 M Senze BD EM Low ATC/CID w ATC/CID w Mideren Event 3 M Senze BD EM Low w ATC/CID w Mideren Event 5 M Senze BD EM Low w ATC/CID w 8 Senze BD EM Low w LATCHED w LATCHED w 9 M Senze BD EM Low w LATCHED w LATCHED w 9 M Senze BD EH Low w LATCHED w

* E-mail notification

-									
Camera	Sensor Event		User ID	Sensor Event	Video Loss Event	Motion Event	Storage Event	User Defined Event	
Alarn Event	Video Loss Event	1 📈	ADMINISTRA1	×	×	×	×		Memo
 Display 	Motion Detection Event								
 Audio 	Storage Event								
	User Event								
User									
User	Event Action								
User	Event Action								

* Remote client notification

					AND THE R.			
Sensor Event		User ID	Sensor Event	Video Loss Event	Motion Event	Storage Event	Use Defin Eve	ed
Video Loss Event	1	ADMINISTRA1 -	×	R	×	ж	A	•
Motion Detection Event								
Storage Event								
User Event								
Event Action								
		Add Delete						
	Video Loso Event Motion Detection Event Storage Event User Event	Sensor Event. Video Late Event Detection Event User Event	Sereor Evert Web Love Evert Micro Detection Peret Songe Evert Uner Evert Uner Evert Lovert Acton	Senor Evert Video Lore Evert Didoctin Didoctin Evert Storage Evert Lore Evert Lore Evert	Senor Evert Video Lose Evert Video Lose Evert Micro Didectin Didectin Evert Storage Evert User Evert Evert Action	Sereor Evert User ID User ID Sereor Video Loss Evert Video Loss Motor Detector Sonape Evert User Evert User Evert Evert Aston	User ID Benetic Velocities Biology Sciology Website 1 IM IM IM IM Microson Description IM IM IM Storage Event User Event Im Im Im User Event Levent Action Im Im Im	Sensor Event Uber ID Sensor Monon Stonge Event Event Monon Defension Def

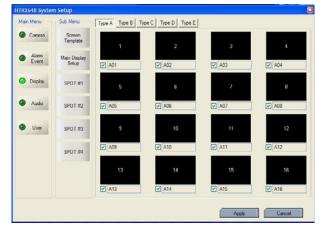
- Select the event that want to assign the action.
- Select the Activation on/off.
- Active state: Select the operation type(High / Low)
- Dwell: Select the type and Action Time.
 - Transparent : It work from Event start time to Event end time.
 - Latched : It work during selected period.
 - (1~300 second and until pressing any key)
- Setup the User ID that want to receive the each event.
- -Press " ADD" button.
- After selecting added user ID, select the each event
- (Sensor(Alarm), Videoloss, Motion, Storage and User Defined Event) and then check the Activation on /off.
- Registered User can be deleted by Pressing the 'DELETE" button.
- When happen the selected event, it notify the event to Remote client.
- Press " ADD" button.
- After selecting added user ID, select the each event (Sensor(Alarm), Videoloss, Motion, Storage and User Defined Event) and then check the Activation on /off.
- Registered User can be deleted by Pressing the 'DELETE" button.

* Buzzer

-			Out E-Mail Notficati	-				
Camera	Sensor Event		Linked Event	Active		l Time		
				Picario	Type		Time	
Alam	Video Loss	1	Sensor #01 Evt		NONE	-	5 SEC	
Alarm Event	Event	2			NONE	*	5 SEC	
	Lines	3	Sensor #01 Evt	· 🗐	NONE	Ŧ	5 SEC	-
Display	Motion							
Uispiew	Detection Event							
	Lvers							
Audio	0							
and the second s	Storage Event							
	User Event							
User	User Event							
User	User Evert							
User								
User	Event Action							
User								
User								
User								
User			Add Delete					
User			Add Delete	-				

DISPLAY

- Screen Template



nera Arra	inge	me	nt				X
Name							
	1	-	1	-	1	-	
	1	•	1	•	1	•	
	1	+	1	+	1	-	

- When happen the selected event, select buzzer on/off.
- After selecting the event(Alarm, motion, video loss,User Defined Event) that want to buzzer, select the activation on/off.
- Select the buzzer type (Latched, Transparent)

Select the screen division(typeA,B,C,D,E) Double Click at the location that operator want to change.

- Then screen template is made or changed.

- The operator can make new screen template or modify the current screen template.

Double click the template that want to modify.

Input the name. Select the channel from screen template. Click the "OK".

- Main Display Setup

Camera	Screen			Name	Dwell Time	1	2		3		4		
Califera	Template	1	1		20 sec 👻	Type A -> -	None	*	None	-	None	-	None
	rompioro	2	1		20 sec 💌	Type A -> 🔻	None	*	None	+	None	-	None
Alarm		3			20 sec 💌	Type A -> 💌	None	*	None	+	None	-	None
Event	Main Display Setup	4			20 sec 💌	Type A -> 🔻	None	•	None	*	None	-	None
0000003388888888888	Setup	5			20 sec 💌	Type A -> 👻	None	*	None	+	None	-	None
		6			20 sec 💌	Type A -> 👻	None	*	None	+	None	-	None
) Display	SPOT #1	7			20 sec 💌	Type A -> 🔻	None	*	None	*	None	-	None
<u> </u>	0101141	8			20 sec 💌	Type A -> 👻	None		None	+	None	-	None
		9			20 sec 💌	Type A -> 👻	None	•	None	+	None	-	None
Audio		10			20 sec 💌	Type A -> 👻	None	•	None	+	None	-	None
	SPOT #2	11			20 sec 💌	Type A 🔿 🔻		+	None	+	None	-	None
		12			20 sec 💌	Type A 🔿 🔻		+	None	+	None	-	None
		13	1		20 sec 👻	Type A -> 👻		-	None	-	None	-	None
User	SPOT #3	14	1		20 sec 👻	Type A -> 👻		-	None	-	None	-	None
000000000000		15	1		20 sec 👻	Type A -> 👻			None	-	None	-	None
		16	1		20 sec 👻	Type A 🔿 🔻		-	None	-	None	-	None
	SPOT #4	17			20 sec 💌	Type E -> 👻	None	•	None	-	None	*	None
		<	m)										>
		1.00											
			Add		Delete								
		_											

- Press the ADD button or select the current list.
- Select the name and dwell time.
- Select the new list.
- Select the screen template that want to do the sequence each channel.
- The operator can add Max.16EA screen template as same method.
- When pressing the DELETE button after selecting the list, list is deleted.
- The Max. list Number is 16EA.
- For selecting display, check the square.

- Spot#1~4 Sequence

Screen Template Main Display	1		Name S101	Dwell Ti	itte	1		2	3	1 24	110	
Adulto Phone and				5 sec				Type B 🔿 🖌				None None
Setup												
SPOT #1												
SPOT #2												
SPOT #3												
SPOT #4												
	<						_					>
	C	Ad	d (Delete								
	SPOT #2 SPOT #3	SPOT #2 SPOT #3 SPOT #4	SPOT #3 SPOT #4	SPOT #2 SPOT #3 SPOT #4	SPOT #3 SPOT #4	SPOT #2 SPOT #3 SPOT #4						

- How to play and stop the sequence After clicking mouse right button from live display, select the "SEQUENCE PLAY" or "SEQUENCE STOP"

Additionally, press the "SEQ" button from DVR.

In case of advance spot, how to setup is almost same with main display sequence.

The different thing is only one.

The screen template that can select is only two types.

- (1,4 division).
- Press the ADD button or select the current list.
- Select the dwell time.
- Select the screen template that want to do the sequence.
- The operator can add Max.16EA screen template as same method.
- When pressing the DELETE button after selecting the list, list is deleted.
- * The Max. list Number is 16EA each spot channel.

AUDIO

ITR1648 Syste	m Setup	
Main Menu Camera	Audo	
Alarm Event	Live Audo 1 💌	
 Display 	Network Audio	
 Audio 	Audo Receiver	
 User 		
		Apply Cancel

- Live Audio Select the Live audio channel.
- Network Audio

Select the audio transmitter and receiver

USER

- User group

ain Menu	Sub Menu	User Group					
Camera	User Group	USER GROUP					
		GROUPI	D	CREATED BY		DESCRIPTION	
Alam		1 ADMINISTRA	TOR /	DMINISTRATOR			
Alam Event	User Creation	2 MANAGE		ADMINISTRATOR			
		3 USER		DMINISTRATOR			
Display		10					
Audo		Add GROUP AUTHORIT	Delete	ן			
		GROUP AUTHORIT) Authority	Owned	Authority	Owned
Audio		GROUP AUTHORIT	Y -	Authority Setup User	Owned	Authority Remote Log on	Owned
Audo		GROUP AUTHORIT Authority Search	Y Owned	A ANNA ANA	Ш		
Audio		GROUP AUTHORIT Authority Search Archiving	Y Owned	A ANNA ANA			
Audo		GROUP AUTHORIT Authority Search Archiving Setup Alarm	Y Owned	Setup User	Ш	Remote Log on	=
Audo		GROUP AUTHORIT Authority Search Archiving Setup Alarm Setup Event Setup Camera Setup Camera	Owned	Setup User Setup Network	-	Remote Log on ShutDown	3
Audo		GROUP AUTHORIT Authority Search Archiving Setup Alarm Setup Event Setup Record	Y Owned	Setup User	Ш	Remote Log on	=

- User

R1648 Syste Ian Menu	Sub Menu	User Creation		
Camera	User Group	USER GROUP	Enal	DESCRIPTION
Alarm Event	User Creation	1 ADMINISTRATOR ADMINISTRATOR		
Display				
Audio		Add Delete		
User				

Default user group(ADMINISTRATOR, MANAGER,

USER) can not be deleted.

After selecting "ADD" button, the operator can make the new user group with new authority.

From below section, the operator can select each authority.

After selecting the new group, check the authority that want to have. Then click the "apply" button. How to EDIT is almost same with ADD after selecting the "EDIT" button.

The operator can add, delete or edit the new user.

When selecting the "ADD" button, it shows "add user" screen.

After inputting the ID,PW, click the "OK".

Then select the Group and input the E-mail address.

ser Add	
New ID	
New Password	
Retype Password	
F-Mail	
Group	ADMINISTRATOR
Description	
	OK Cance



Input the Password. (Current default password is non. So click the "OK" w/o inputting the password)

Record Mode

Rec	ord Mode		Event Link				
(Normal Record			Sensor Channel		User Defined Event	
(Intensive Record		Cam 01	1	~ >	< 💌	
			Cam 02	2	~ >	< 💌	
0	Weekly		Cam 03	3	~ >	< 💌	
			Cam 04	4	~ >	< 💌	
0	Daily		Cam 05	5	v >	< 🖌 🖌	
			Cam 06	6	v >	< 🖌 🖌	
			Cam 07	7	>	< 💌	
			Cam 08	8	v >	< 💌	
			Cam 09	9	v >	< 💌	
	nt Recording Time	5 🛩	Cam 10	10	>	< 💌	
Post Eve	ent Recording Time	180 🗸	Cam 11	11	>	< 💌	
			Cam 12	12	v >	< 💌	
			Cam 13	13	► >	< 💌	
			Cam 14	14	v >	< 💌	
			Cam 15	15	~ >	< 💌	
			Cam 16	16	~ >	< 💌	

- Select the "record mode" and "weekly/daily".

In case of selecting the "Normal Record" from record mode, The operator can not enter "Intensive Record" setup.

Oppositely in case of selecting the "Intensive Record", The operator can not enter "Normal Record" setup.

- Weekly/Daily

The operator can select the 'Weekly" and "Daily" record setup from 'Normal Record" and 'Intensive Record" setup.

So the DVR will record as daily and weekly setup configuration of "Normal and Intensive record" setup mode. Pre-Event Recording Time: When the DVR is not in continuous recording mode, this setting determines the

amount of footage that is always recorded before an event occurs. (motion detection, alarm input etc.)

Post- Event Recording Time : When the DVR is not in continuous recording mode, this setting determines the amount of footage that is always recorded after an event occurs. (motion detection, alarm input etc.)

- Panic Recording: Disable : Not use the Panic recording function

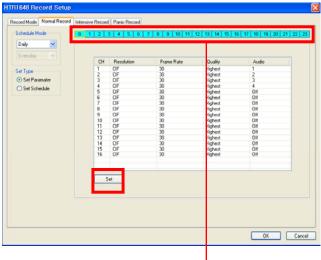
Manual: It work by pressing the Panic button from Remote controller or Front panel and sensor. Press the Panic button again to stop the panic recording.

Auto: After starting the panic recording, Panic recording will be stopped if assigned time is passed automatically.

- Panic Recording Time: It is related with "Auto" option of Panic recording.

- Event Link: Select the sensor channel and user defined event each channel.

Normal Record



- Select the Daily/Weekly.
- Select the Parameter/Schedule

- Parameter

- Drag the time that want to setup by mouse. In case of setup differently each time, the color is different

					Recording Condition						
amera	a Resolution Frame Rat		Frame Rate	Quality	Audio		Used FPS	Sensor	Motion	User	
01	CIF	~	30 💌	Highest 🔽	1		120/120				
02			30 💌	Highest 🔽	2						
03			30 💌	Highest 🔽	3						
04			30 💌	Highest 🔽	4						
05	CIF	~	30 🗸	Highest 🗸	Off		120/120				
06			30 🗸	Highest 🗸	Off						
07			30 🗸	Highest 🔽	Off 🗸						
08			30 🗸	Highest 🗸	Off 🗸	Ĺ					
09	CIF	~	30 🗸	Highest 🗸	Off		120/120				
10			30 💌	Highest 🗸	Off 🗸						
11			30 💌	Highest 🔽	Off 💽						
12			30 💌	Highest 💌	Off 💽						
13	CIF	~	30 🗸	Highest	Off		120/120				
14			30 🗸	Highest 🗸	Off						
15			30 🗸	Highest 🗸	Off 🗸						
16			30 🗸	Highest 🖌	Off 😽						
						_					

- Click the "SET" icon. Then it shows above screen.

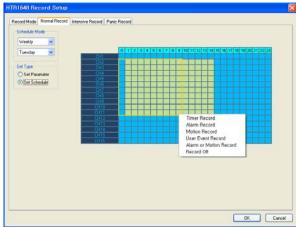
In case of recording setup, the operator should setup as 4 divided parts. The operator can setup Max.CIF,120FPS each divided part.

- Select the Resolution.
- Select the Frame Rate
- Select the Quality. (low, standard, high, highest)
- The operator can setup other divided part as same method.
- In case of Audio setup, it is assigned at Nr.1,2,3,4 Channel basically. (It can not be changed)

In case of weekly, it is almost same with daily setup.

It can setup each date.

- Schedule



The operator can select recording type (Timer, Motion, Alarm, User Defined, Alarm or Motion and Record off) each time, channel.

Drag the section that want to select and then click the mouse right button.

Then recording option will be appeared. The operator can select the recording option each time and channel..

Intensive Record

- In case of this record, record will be centralized at channel that event is happened as event priority.
- Parameter
- Drag the time that want to setup by mouse. In case of setup differently each time, the color is different

rd Mode Normal Record	Intensive	Record Panic	Record											Timer Recording P	aramete				i	Recording Cond	lion
hedule Mode	0 1	2 3 4	5 8 7	8 8 10	11 12 13 14	15 18 17	18 19 20	21 22 28	Camera	Rep	olution	Frame Ra	ke (Quality		Audio		Used FPS	Sensor	Motion	Use
aly vie	-						-	and a state of the	01	D1	~	4	~	Highest	-			3/30			
Veryday V Timer Recording Parameter Recording Condition		02			0	*	Highest	¥													
	CH	Resolution	Frame Bate	Quality	Audio	Sensor	Motion	User Event	03			0	~	Highest	×				•	•	
Туре	1	CIF	1	Highest Highest	1	0		0	04			0	*	Highest	Y						
iet Paramater	3	CIF	1	Highest	3	0	0 1	0							-		10			-	
Set Schedule	4	CIF	1	Highest	4	0	0 1	0	05	SCIE	2	4		Highest	*			4/60		Ð	2
	6	CIF	1	Highest	Diff	0 0	0 0 0		06			0	2	Highest	Y	04F-					
	8	CIF	1	Highest Highest	ON ON	0	0 1	0	07			0	×	Highest	Y				2		2
	9 10	CIF	1	Highest Highest	017	0	0 1	0	00			0	~	Highest	v						
	11	CIF	1	Highest	011	Ő	0 0	ő	CONTRACTOR AND												82
	12	CIF	1	Highest Highest	DIF	0	0 1	0	09	2C1F	~	0	~	Highest	~)II		1/60		1	
	14	CIF	1	Highest	Off	0	0 1	0	10			0	~	Highest	*)#L			2	2	2
	15	CIF	1	Highest Highest	Off	0	0	0	11			1	*	Highest		pit:					2
	-							-	12			0	~	Highest	*		R		2	2	2
	5	e I							13	CIF	×	1	~	Highest	×			4/120			
									14			1	4	Highest	~				2	1	
									15			1	-	Highest	~					2	
									16			1	~	Highest	~						
									,												
														1	OK		Cancel				

The setup is same with normal recording setup.

It record as setup under normal condition. But when happening the event on channel, the Recording setup of the channel that event is happened will be changed as D1, 30 FPS automatically.

If happening the event from some channels at the same time, it will share the max. Recording rate properly. In case of recording setup, the operator should setup as 4 divided parts.

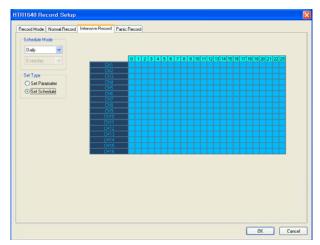
The operator can setup Max.CIF,120FPS each divided part.

- Select the Resolution.
- Select the Frame Rate
- Select the Quality. (low, standard, high, highest)
- The operator can setup other divided part as same method.
- In case of Audio setup, it is assigned at Nr.1,2,3,4 Channel basically.
- (It can not be changed)

Select the Intensive recording condition with Alarm, Motion and User defined event.

- In case of weekly, it is almost same with daily setup. It can setup each date.

- Schedule



The operator can select the record on/ off each time, channel.

Drag the section that want to select and then click the mouse right button.

Then recording option will be appeared. The operator can select the recording on/off each time and channel.

Panic Record

When pressing the panic button or detecting the panic alarm, recording condition is changed as panic record setup.

Normal Record Intensive Record Paric Record						_		Timer Recording Parameter									Recording Condition		
							Camera	Resolution		Frame Rate		Quality		Audio		Used FPS	Sensor	Motion	Use
							01	CIF	v 3	0	¥	Highest	•][1		120/120			
							02		3	0 💽	-	Highest	•						
	CH	Resolution	Frame Rate	Quality	Audio		03		3	0 .	~	Highest	-						
	1 2	CIF	30 30 30	Highest Highest	2		04		3	0	-	Highest	-	4					
	3	CIF	30	Highest	3														
	4	CIF	30 30	Highest	4 0ff		05	CIF	¥ 3	0 5	¥	Highest	~]	Olf		120/120			
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		iet					13	CIF	Y 3	0 .	~	Highest	~	0//		120/120			
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In case of recording setup, the operator should setup as 4 divided parts.

The default setup is CIF, 30FPS.

Setup method is same with normal record setup.

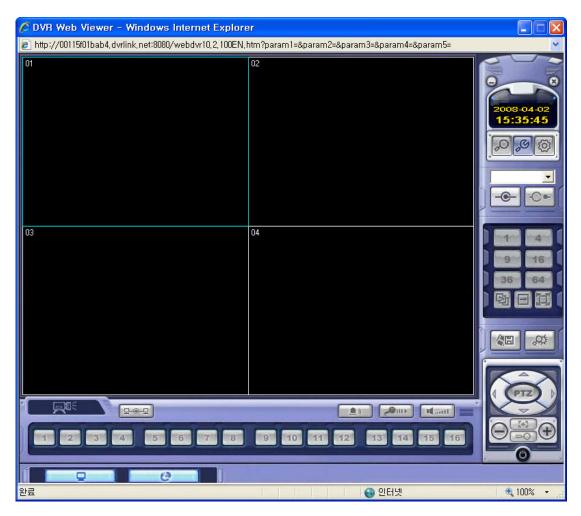
The operator can setup Max.CIF,120FPS each divided part.

- Select the Resolution.
- Select the Frame Rate
- Select the Quality. (low, standard, high, highest)
- The operator can setup other divided part as same method.
- In case of Audio setup, it is assigned at Nr.1,2,3,4 Channel basically. (It can not be changed)

• WEB Client Connection

Input the IP Address or URL of the DVR in the Internet Explorer Address Bar. If when user use the DDNS, input the URL with default port number (8080) like below. <u>http://00115FA1A4.dvrlink.net:8080</u>

Then a dialog will appear to confirm download of an ActiveX control. Please click 'Confirm' or 'Continue'.



Then click the SETUP button.



WEB CLIENT SETUP

• WEB Client Connection

Connect Manager Configuration	DVR Information Name : IP / Domain Name : Port : User ID : Password :
	Clamera Assignment DVR X
	Event System V Alarm Video V Record In/Out Audio out V Alarm out ADD MODIFY DELETE OK Cancel

Click the right button of mouse on the Site in Group and click the Add Group menu like below.



Input the Group Name.

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Cance	el 🔄
2	ame Cance

...... WEB CLIENT SETUP

• WEB Client Connection

Click the Grout name and input the DVR information.

* Input the default Port and User ID correctly. (6400, ADMINISTRATOR with NO PASSWORD)

Then click the ADD button and OK button.

Local Setup	
Connect Manager Configuration	DVR Information Name : Test IP / Domain Name : 00115FA1A4.dvrlink.net Port : 6400 User ID : ADMINISTRATOR Password :
	Camera Assignment Client DVR 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	Event System Valarm Video V Record In/Out ADD MODIFY DELETE OK Cancel

Select the site name and click the connection button then input the password. (Default : No password)

2008-04-02 16:11:57	COUR-04-02 16:15:26 COUR-04-02 16:15:26 COUR-04-02 COUR-

Input Password	
Name :	Test
IP / Domain Name :	00115f01bab4.dvrlink.net
Port :	6400
User ID :	ADMINISTRATOR
Password :	
OK	Cancel

WEB CLIENT SETUP

• WEB Client Connection

If the DVR information is correct, can see the connected screen like below.

