# **DIGITAL VIDEO RECORDER**

# **OPERATION MANUAL (REV.1.1)**



#### Safety precautions

Awarning	Failure to follow these instructions could result in serious personal injury or death.
<b>A</b> CAUTION	Failure to follow these instructions could result in personal injury or property damage.
NOTICE	Notifies user of references to use conveniently.

#### 

- Install this equipment avoiding a direct ray of light, heats and moistures.
   Doing not, can result in lowering efficiency, electric shock or fire.
- □ Do not pull electric wire or do not touch power plug with wet hands. -Can result in electric shock or fire.
- □ Do not bend the power cable forcedly or do not press it with heavy materials. -Can result in electric shock or fire.
- Do not use damaged power cord or loose outlet plug.
   -Can result in electric shock or fire.
- Do not use the outlet fully.
   -Can result in electronic shock or fire.
- Do not disassemble, repair or convert this product without permission.
   -Can result in electric shock or fire. When repair is required, contact the service center.
- □ Do not open the cover of the product at your convenience or do not insert inductive stick into the ventilation hole.

-Especially, SMPS is open, so only professional technicians are allowed to work on.

#### **A**CAUTION

- □ Do not place equipment on the inclined or uneven plane. -Can cause lowering of efficiency or malfunction.
- Do not vibrate or shock in operation.
   -Can cause out of order with equipment and hard disk (HDD).
- □ be caution that do not cover the ventilation hole of HDD or put liquid into the equipment. -may cause out of order of equipment and hard disk drive (HDD)

Open the box at the clean and even place. And read operation manual thoroughly before you install.



#### NOTICE

Check the items supplied with your DVR system. Refer to the picture above and contact your dealer if you find anything is missing or damaged.

The specification and appearance may be changed without prior notice.

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# Chapter-I. System Overview

Item		XQ Lite		
Video IN / Loop Out		4 / 0		
Video Display		1,4		
Monitor	Out	1 CH Composite		
VGA O	Out	1CH		
Spot O	Put	1CH		
Audio In /	/ Out	4 In / 1 Out		
Audio Comp	pression	G.723		
Display Res	solution	720 X 480		
Recording Re	esolution	720X480, 720X240, 360X240		
Video Comp	pression	Mpeg4 Level 1,2,3		
Diaploy Frame	NTSC	120Fps		
Display Flame	PAL	100Fps		
Boo Fromo	NTSC	120Fps		
Rec. Flame	PAL	100Fps		
Dlay Frama	NTSC	120Fps		
Flay Flame	PAL	100Fps		
OS		Embedded Linux		
Network		10/100 BaseT (1EA)		
USB		USB 2.0 (Front 1EA, Rear 1EA)		
EIDE		2CH (MAX 2EA HDD, 1EA CD-RW)		
Conso	le	RS232C		
PTZ		RS485		
Alarm Fur	nction	4 In/ 10ut		
Front K	ley	33 Key		
Remoc	on	ID Remote Controller (option)		
WatchDog / Power Monitor		Yes		
Front LED		Power, Network, HDD		
Demension		395(W) X 390(D) X 70(H)mm		
Operation temperature		0 ~ 45 ℃		
Operation humidity		5 ~ 85%		
Weight		With Out CDRW, HDD (3.5kg)		
Power		12VDC 5A Adapter Input : 100/240VAC , 60/50Hz , 1.5A		

#### **System Characteristics**

- D1(720\*480) real-time recording at 4CH
- > High level specification with elegance design and jog/shuttle, easy UI with LCD
- > Control recording resolution, quality, frame rate by each camera
- USB mouse supported
- > LIVE screen editing, Digital zoom, SPOT monitor supported
- > Event / Panic / Schedule record, optimized record mode supported
- > Diversified search by Time, Calendar, Event supported
- Diversified backup by USB2.0 and DVD-RW supported
- > Convenient backup by AVI, Mini viewer etc
- > 10/100 Base-T network
- > DDNS, NTP, E-MAIL, CALLBACK functions
- > DISK ID, S.M.A.R.T functions, real-time disk health check
- Multi-language supported
- Intensive security function by chosen AUTHORITY
- Diversified network program by LIVE, SEARCH, CMS, AGENT



# Chapter-II. H/W Description

### System appearance





3) Top View



**DVR rear panel** 

I



#### System rear connection detail

1)Video Source Connection



It connects video sources (camera image) to BNC connector via cable.

#### 2) Monitor Connection



CVBS/ SPOT OUT : It connects normal CCTV CRT monitor. VGA : It connects PC monitor or LCD monitor (not supporting DVI)

#### 3) Audio Connection



It connects audio source (mic) to audio input (4CH) of RCA and connects speaker to audio output. 4) Network Connection



It supports 10/100 BaseT, connects Cat5 cable with RJ-45

#### 5) RS232 port Connection.



RS232 port is connected to PC and other devices for specific function and After Sales purpose.

#### 6) USB port Connection



It consists of 1 USB (Front), 1 USB (Rear), its supported devices are such as USB mouse, USB external HDD and USB memory stick

#### 7) ALARM IN/OUT(SENSOR) Connection



- \* Alarm Input 1~4CH
   When an event happens DVR operates by using external device.
   Sensor, Switch signal (Signal GND) are connected terminal block.
   Ref : Spec. Max 6V/50mA
- \* Alarm Output 1CH

It can be on/off external device as buzzer, headlamp etc. Alarm input mode consists of NORMAL OPEN and NORMAL CLOSE. Ref: Spec. Max24V/2A

\* RS485

Through Half-duplex serial communication, remote controlling is available using control system as external device, control keyboard. In addition, it is available to control PTZ (Pan/Tilt/Zoom) camera.

it is connected RS485 +,- of DVR.

8) NTSC/PAL Shift Switch



The factory reset switch located at the left side of NTSC/PAL switch is used to return to factory default setup values.

When you need to shift NTSC/PAL mode, turn off the DVR before shift switch, then restart the DVR.

#### 9)Power Connection



Adaptor is DC12V /5A input and Main Power can turn on/off DVR on Switch.

#### **System Front Description**



- > Menu Button : it shows menu in live, search display (same function as right click of mouse)
- Direction Button : It is used for movement, changing set-up, PTZ move, etc in menu. (Basic function- left, right : Movement / up, down : Changing set-up / Enter : confirmation
- > Number Button : It is used for Changing to 1CH screen, direct input in set-up.
- > Operating Button : It is used for operating function as Setup, Backup etc in DVR.
- > ESC Button : It is used for exit from menu/mode, withdrawing from execution.
- > LED : It shows status of Power, HDD, Network.
- > IR sensor : it receives a signal of remote controller (remote controller is optional)
- Playback Button : It is used for when search, playback, Pause, FF, REW. (It comes to live screen out of playback screen when stop button is pressed)

#### **Remote controller Description (Optional)**

ICON	FUNCTION	HOT KEY
Ċ	POWER ON/OFF	
►	PLAYBACK & PAUSE	LATEST SEARCH
	STOP	TO LIVE
••	REWIND	FIRST SEARCH
••	FAST FORWORD	LAST SEARCH
<b>▲</b>	STEP REVERSE	CALENDAR SEARCH
▶	STEP FORWORD	EVENT SEARCH
$\square$	DISPLAY	
Ţ	SEQUENCE	
*	FREEZE	
<del>Q</del>	ZOOM	
<i>j.</i>	SETUP	
	BACKUP	
	COLOR	
6	STATUS	
	ENTER	
<b>AV4&gt;</b>	DIRECTION	
	MENU	
-[]•	ESCAPE	
	RECORD	



#### $\bigcirc$ How to change remote controller ID

- A) Enter 'ID' button for 3seconds
- B) Power LED is lightened.
- C) Enter 2 letters of digit. (00 ~ 99) In case 00, means no ID function - ID set is available from 01 to 99.
- D) Save setting value, then LED is off.
- E) It enables to communicate the same ID DVR
- F) LED is ON every time data is transferred.

**Chapter II** 

Installation Guide for HDD & ODD devices

Description

1. ODD(CD-RW/DVD-RW) devices should be installed as "Secondary Slave".

2. HDD for system needs to be installed as "Primary".



#### Guide Chart for installing several HDDs

Installed			DD Svsterr		ODD(CD-R) De	W/DVD-RW) /ice
motaliou		IDE	Connector	eyete	IDE	Connector
HDD x 1	HDD#1	PRIMARY MASTER	JF1	SYSTEM		
	HDD#1	PRIMARY MASTER	JF 1	SYSTEM	SECONDARY SLAVE	JF 4
עטח X 2	HDD#2	PRIMARY SLAVE	JF 1			

#### System On

- Put the power to the DVR.
- Turn on the power switch at the rear power button .
- It takes about 2minutes to boot (It may take more when network cable isn't connected)

#### System Shutdown

Select [SETUP > SYSTEM > SYSTEM SHUTDOWN] to shutdown system at login status
Press "OK" button to confirm "Power off the system", then turn off power switch in the rear.



# Chapter-III. Monitoring Screen

#### **Monitoring Screen**





Monitoring screen : it monitors each channel.

<Screen Indication>

Left Up	: Camera Name P – Pan/tilt A – Audio
Right Up	: Record mode (Blue-Normal, Red-Event) Motion status
Central	: Video Loss, Hidden Camera



: DVR status Indication (Backup, HDD usage, Current Time, SEQUENCE, FREEZE, Login info. etc)

#### **Screen Split**

Press DISPLAY button or mouse menu: changed on 1  $\rightarrow$ 4 by turn





#### **Direct Channel**

- 1) Press channel No. on the remote control or front panel.
- 2) Click the screen to watch specific channel using mouse.

LOG IN Login to menu for setup Default: ID – admin PASSWORD - 1

### **ACAUTION**

#### It is recommended to change ID and PW for your safety.



CAMERA ALLOCATION function (changing camera display position)

1)Making show up Menu by clicking mouse right button or pressing menu key of remote controller in monitoring status, then ETC  $\rightarrow$  select group EDIT.

2)When box of orange color shows up on No.1 CH, by using key of up/down/left/right, move to desired channel to switch.

3)Enter channel no. you wish to switch.

4) To exit, press ESC or Enter

Ex) Switching camera No 2 and 4.

#### Menu Bar \* Click MENU button or right button of mouse



#### MISCELLANUEOUS

#### SEQUENCE

Sequence camera group regularly

#### FREEZE

Pause the screen

#### ZOOM

1 Full Live screen available only.

Select Zoom : Press zoom button and locate the box to magnify using direction keys Move Zoom : It can be moved using direction key after press Enter.

DISPLAY

1, 4



<ZOOM selected screen>



: Split screen change (the same as DISPLAY button)

<ZOOM screen>

#### NOTICE

Zoom screen may provide low quality or be shaken as formatted digitally.

#### SPOT

1 spot monitors are supported and sequence / fix mode can be selected. Select the Spot monitor in SETUP>DEVICE>SPOT MONITOR.

SPOT NUMBER	1	
ENABLE SEQUENCE	NO	
FIXED CAMERA	1	:

#### PTZ

Pan Tilt/Zoom/Focus/Iris Preset setting and moving functions are supported. Each function can be different from each PTZ protocol.



#### ALARM

Control Alarm output function.



#### STATUS

#### RECORD

EVENT

Displays current recording status

CAMERA	RESOLUTION	FPS	QUALITY	AUDIO
1	360x240	30 FPS	HIGH	
2	360x240	30 FPS	HIGH	-
з	360x240	30 FPS	HIGH	
4	360x240	30 FPS	NORMAL	
5	360x240	30 FPS	HIGH	
6	360x240	30 FPS	NORMAL	-
7	360x240	30 FPS	HIGH	
8	360x240	30 FPS	HIGH	
				1/2

↑     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1       ▲     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1       ▲     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1       ▲     0     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1       ▲     0     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1	1     2     3     4     5     6     7     8     9     10     11     12     13     14     15       1     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1       1     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1       1     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1       1     1     2     3     4     5     6     7     8     9     10     11     12     13     14     15     1	_				-		RE	CON	up	E	VENT		D.	ISK		MET	a
▲ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 <sup>1</sup> / <sub>0</sub> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1	▲ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1	充	1	2	з	4	5	6	7	8	9	10	11	12	13	14	15	3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1	<b>6</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1	<u>_</u>	1	2	з	4	5	6	7	8	9	10	11	12	13	14	15	3
		16	1	2	з	4	5	6	7	8	9	10	11	12	13	14	15	

DISK CAPACITY SPACE TEMPERATURE S.M.A. SAMSUNG SP1 114GB 113GB 42 C GOO 
SAMSUNG SP1 114GB 113GB 42 C GOO
ISSTcorpCD-F
TSSTcorpCD-H

	RECORD EVENT DISK NETWO
SERVER INFORMATION	
MAC ADDRESS	00:12:46:00:08:62
IP	192.168.0.1
NETMASK	255.255.0.0
GATEWAY	192.168.0.1
DNS	168.126.63.1
DDNS	
CLIENT INFORMATION	
USER NAME	P

#### **DISK** Displays current Disk information

#### NETWORK

Displays current network information. Also displays current connected client information.

Displays current event information (motion/alarm).

#### PANIC RECORD

Set recording mode in an emergency situation. Press SETUP>RECORD> EVENT RECORD>FPS/QUALITY

#### SETUP

Select to enter into SETUP menu

#### CAMERA COLOR

Changes camera screen color



#### OSD

Changes OSD (On Screen Display)'s position.

OSD		0000
HORIZONTAL	25	•
VERTICAL	5	

#### SEARCH Select to enter into SEARCH menu

#### BACKUP

Select to backup recorded data.

1) Backup Device Search



#### 4) Warning when data size is over

CAUTI	ON	0000
	BACKUP DATA SIZE IS BIGGER THAN ITS FREE SPACE, CONTINUE?	
	ОК	CANCEL

#### 2) Select data to backup



#### 5) Make Image after pressing OK.

BACKUP 2/3	0000
	7%
	STOP CLOSE

#### 3) Calculate data size

BACKUP 1/3	0000
BACKUP DATA SIZE : 86MB	

6) Burning to CD

ВАСКИР 3/3	0.000
BURNING	2%
	CLOSE

## Chapter III

#### MUTE

Sound off

#### LOGOUT

Press SETUP>SYSTEM>USER



# Chapter-IV. SETUP

#### **SETUP SCREEN**



#### SYSTEM

Set up various system related items.

INFORMATION

DATE/TIME

DISK

USER

LOG

LOGOUT

SYSTEM SHUTDOWN

#### INFORMATION

#### INFORMATION

DEVICE NAME: User can change the DVR name on his own. LANGUAGE : Select language. VERSION : Shows S/W version info. (With UPGRADE button, you can upgrade the newest S/W version)



#### NOTICE

Contact manufacturer or distributors for more Upgraded version .

CONFIGURATION IMPORT : You can read setup values saved in USB or Initialize the setup values

CONFIGURATION EXPORT : You can record setup values in USB equipment.

#### DATE/TIME

#### DATE/TIME

Set date, time & Time zone of System.

#### **ACAUTION**

When you use it for the first time Set these items in advance.

Check "NO" of enable in the TIME SYNC menu, user can change DATE/TIME

#### TIME SYN

Synchronize time with internet time server.

#### **ACAUTION**

Set the GMT on the DATE/TIME list and Adjust TIME SYNC.





#### HOLIDAY

In the schedule record setup , it automatically converts normal date to holiday schedule.

It works when record is setup as schedule mode.

Insinterenting -	DATE/TIME TIM	E SYNC HOLID
NUMBER	DATE	×
1		x
2		×
3		x
4		×
5		×
6		x
7		×
8		×
9		x
10		x
+		1/1

#### DISK

**DISK TABLE** Shows current disk information connected to system.

IMPORTED : DISK installed RECORD : RECORD possible SYSTEM : DISK allotted for SYSTEM

TYPE	MODEL	CAPACITY	INFORMATION
DISK-0	ST3250820A	244GB	SYSTEM
DISK-1	5T3750640A	750GB	RECORD
DISK-2 DISK-3	AC-DI-SI DVDRAM GS.	-	
			FORMAT ALL

#### TOTAL DISK FORMAT

Format all connected HDD disks. (When you select info column of connected DISK separately, You can format DISK one by one.

### **A**CAUTION

One of DISKS should be a system disk for recording system logs & other TEMP file issuing purposes.

### **ACAUTION**

Backup devices such as CD-RW/DVD-RW need to be installed as Secondary Slave. (JF 4 Connector. – Slave jumper setting)



<SYSTEM DISK selected Screen>



<On FORMAT Screen>

#### USER

#### USER

Shows currently registered user lists. User accounts can be added or deleted.

+ add account with this button.

X Delete account with this button.

- ODEN		
NUMBER	USER	x
1	admin	x
2		x
3		x
4		x
+		1/1
CONFIRM LOGIN	YES	
AUTO LOGOUT ENABLE	NO	
AUTO LOGOUT TIME	5 MIN	

# **USER ADD** Possible to add user account according to authority.



#### **CONFIRM LOGIN**

When YES selected, LOGIN needs to be confirmed every time to enter into setup / system menu.

#### AUTO LOGOUT ENABLE

LOGOUT automatically after a certain period of time.

#### AUTO LOGOUT TIME

Set idle time to LOGOUT

#### LOG

#### LOG

Shows all log infos on SYSTEM and other events

CLEAR : Remove all log info.

UP/DOWN button : Move to next/previous log info page by page .



Move to first part of LOG info.



Move to Last part of LOG info.

LOGOUT LOGOUT function when exiting set up

#### SYSTEM SHUTDOWN

SYSTEM ends. The same as POWER OFF button of front or remote control.



#### NETWORK



#### NETWORK

Set up various NETWORK items

LAN

DDNS

E-MAIL

CALLBACK

#### LAN

#### MAX CONNECTION

Shows maximum numbers of Connectable users. (Up to 4)

#### STATIC TYPE

Select in case of STATIC IP. All setting values of IP, GATEWAY, NETMASK Need to be set manually.



#### **DHCP TYPE** Select during automatic DHCP IP. User set DNS only. (under the situation of DHCP server operating mode)



#### **ADSL TYPE**

In case USER ID, P/W are needed to input such as PPPoE of ADSL line


### DDNS(DYNAMIC DNS)

ENABLE Select if you want DDNS

This is under the situation of Dynamic IP Network.

SERVER Select DDNS server

EZDDNS : Specialized DDNS server operated by Manufacturer → www.ezddns.com DYNDNS: DDNS common server

## NOTICE

In order to use DDNS service Account & HOSTNAME should be registered in the server first.

#### HOSTNAME

User name of IP ADDRESS ON Dynamic IP circumstance. It is the same name as registered on DDNS server.

#### **USERNAME / PASSWORD**

Type the user name & pas word registered on DDNS service.

ROUTER

Check if NETWORK is through ROUTER or IP sharer .

# **ACAUTION**

Recommended to use EZDDNS Server rather than DYNDNS as DYNDNS is not optimized The system.

ENADLE	YES
SERVER	EZODNS
HOST NAME	
USER NAME	
PASSWORD	
ROUTER	NO

# E-MAIL

# ENABLE

Select when you need E-MAIL transmission. ALL event information is sent to admin's E-mails.



# **SMTP SERVER** Write the MAIL sending SMTP server name.

**SENDER** Write the mail account of sender.

**AUTH ENABLE** Check when you need account authority.

ID / PASSWORD Input account & password .



# CALLBACK

# ENABLE

Check to use CALLBACK function .

All event or specific information are sent to "Agent" Program which is installed on P.C



**CALLBACK ADD** Register IP address of P.C for callback function



# DEVICE



# DEVICE

These are item lists for the control of CAMERA, ALARM .

CAMERA

ALARM

DISPLAY

MAIN MONITOR

SPOT MONITOR

**MISCELLANEOUS** 

# CAMERA

### ENABLE

Check if you want to use current camera

#### TITLE

Can change the camera name.

#### HIDDEN

Doesn't show the screen on live mode Even though it records and runs normally.

#### PTZ ENABLE

Check if you want to use PTZ function.

# PTZ PROTOCOL

Select PTZ PROTOCOL. Various of protocol information including PELCO-D are implemented. If you can not find one, please contact manufacturer

#### **PTZ ADDRESS**

When you use many of same PTZ equipments You can name on these PTZ sites. Site numbers can be from 0 to 255.

# PTZ PORT

Adjustable related protocol BAUDRATE, DATA BIT.





# ALARM

**ENABLE** Check if you use specific ALARM.

**TITLE** Changes connected ALARM names.

ALARM TYPE Select specific ALARM TYPE. (NORMAL OPEN, NORMAL CLOSE)



# MAIN MONITOR

Set up SEQUENCE, EVENT POPUP of main monitor.

#### SEQUENCE

Set up the screen switching times.

## **EVENT POPUP**

Check if you want event pop up function.



#### DISPLAY

Shows all OSD display details.

CAMERA INFOMATION Selects the display of CAMERA NO, TITLE

**EVENT INFOMATION** Select OSD display for the EVENT.

**STATUS INFORMATION** Shows various status of OSD.

#### **SPOT MONITOR**

Set up functions of SPOT MONITOR.

**SPOT NUMBER** Select SPOT output numbers.

**SPOT SEQUENCE ENABLE** Select SPOT switching channel.

FIXED CAMERA Select the camera number not to switch .

**SEQUENCE CAMERA** Select which camera to switch.

**SEQUENCE DWELL** Adjust switching times .







# MISCELLANEOUS

Control of remote controller/key related functions.

**REMOTE CONTROLLER ID** Designate remote control ID. It is useful when many DVRs installed at the same place .

# KEY TONE ENABLE

Select button volume on the front panel.

6		
KEY TONE ENABLE	YES	
REMOTE CONTROLLER ID	ALL	
		1
c		1

# RECORD



# RECORD

These are control lists of recording related functions.

RECORD POLICY

RECORD

# **RECORD POLICY**

Select RECORD types.

- Two types (Single Record, Overwrite)



# RECORD

Set up specific record type per each camera.

# RESOLUTION

Set up resolution. -360\*240(CIF) -720\*240(HALF-D1) -720\*480(D1)

# **RECORD MODE**

Set up record type. NORMAL+EVENT is focused record mode.

**NORMAL/EVENT RECORD FPS** Set up how many frames to record.

# NORMAL/EVENT RECORD QUALITY

Set up record quality.

**SCHEDULE** Set each week's schedule.





# EVENT



# EVENT

This is for the control of all event items such as MOTION, SENSOR.

MOTION

SENSOR

VIDEO LOSS

SYSTEM

#### MOTION

#### SETUP

Set up the MOTION area & sensor.



Click mouse right or MENU KEY button to see motion area window



#### **RECORD** Set pre& post record mode.

# **ACAUTION**

When record frames are less, PRE/POST RECORD need to be set a lot more for correct record search.



#### ACTION

Setting up list for how to act after EVENT.

- POPUP CAMERA/DWELL
- :Set popup channel & time.
- ALARM/BUZZER DWELL
- :Set alarm & buzzer time.
- E-MAIL
- :Select EVENT info to be sent by e-mail.
- CALLBACK
- :Select EVENT info to be sent to AGENT.
- WRITE LOG
- :Select to write LOG info.



#### SENSOR

#### SETUP

Set the SENSOR name & TYPE.

NORMAL OPEN : Normally it opens and sends signals when detects sensors.

NORMAL CLOSE : Normally it closes, and it sends SIGNAL when detects sensors.

ESENSOR	SETUP RECORD AC	TION
SENSOR NUMBER	1	•
I ENABLE	YES	
SENSOR NAME	SENSOR1	
SENSOR TYPE	N/O	
		7
		-
		-

**RECORD** Set Connecting camera, Pre, post record.

# 

When record frames are less, PRE/POST RECORD need to be set a lot more for correct record search.

#### 1. CH1 2. CH2 SENSOR SENSOR NUMBER 1 LINKED CAMERA 1 PRE RECORD 5 SEC POST RECORD 10 SEC 2 OK CANCEL 2007/11/29 17:06:55 (0 948 admin

#### ACTION

Setting up list for how to act after EVENT.

- POPUP CAMERA/DWELL
- :Set popup channel & time.
- ALARM/BUZZER DWELL
- :Set alarm & buzzer time.
- E-MAIL
- :Select EVENT info to be sent by e-mail.
- CALLBACK
- :Select EVENT info to be sent to AGENT.
- WRITE LOG
- :Select to write LOG info.



# VIDEO LOSS

VIDEO LOSS can be an event type and can set camera record and action.

#### SETUP

Select whether you want VIDEO LOSS Function or not.

	SETUP RECORD ACT	ION
CAMERA NUMBER	1	
ENABLE		-
1		

# RECORD

Set connecting camera Pre& post record.

# 

When record frames are less, PRE/POST RECORD need to be set a lot more for correct record search.



#### ACTION

Setting up list for how to act after EVENT.

- POPUP CAMERA/DWELL
- :Set popup channel & time.
- ALARM/BUZZER DWELL
- :Set alarm & buzzer time.
- E-MAIL
- :Select EVENT info to be sent by e-mail.
- CALLBACK
- :Select EVENT info to be sent to AGENT.
- WRITE LOG
- :Select to write LOG info.



#### SYSTEM

Sets how to operate event related with DISK mainly.

#### **DISK FULL** Sets when HDD is full of record.



# S.M.A.R.T

Enables the system to prevent possible malfunction of HDD by interfacing between system and HDD.

If you found "BAD HDD" mark in the S.M.A.R.T function, please exchange HDD as soon as possible



# Chapter-V. SEARCH

### SEARCH



Playback Screen : Record Playback
 Playback Time : Playback Time Display
 Display Status

### **Playback Icon**

Pause (Ⅱ) Playback (►) Multiple Playback(► ►, ► ► ►, ► ► ►)

# NOTICE

It randomly shows the first searched record file when it goes to SEARCH MODE. This type is the same as on event search , so it is possibly not to shows The exact record file searched .

#### SEARCH MENU



# DISPLAY

Select screen division mode. (1,4 spirit)

#### CALENDAR SEARCH

Select date , hour, minutes, seconds in turn on calendar search. When you click MINUTE, you can find specific record status as right below.



# NOTICE

#### Section is

Generated and maintained recording data that occurs duplicating data returning previous time by any cause during DVR operating





## **EVENT SEARCH**

It shows all EVENT record list. If you click related EVENT, It plays that event promptly.

# **A**CAUTION

It may not be the same channel image as shown on EVENT LIST because it shows the first display image recorded at that time zone.



# SEARCH KEY

Can be selectable on EVENT search. -START/END :Set EVENT search start, end time. -MOTION/SENSOR/VIDEO LOSS :Selectable per each camera



## DATE/TIME SEARCH

Search data by Date/Time . You can search the event promptly When you know the exact event time.



#### FIRST

Move to first part of recorded DATA.

### LAST

Move to last part of recorded DATA.

## BOOKMARK

Sets automatically starting time during back up. It is useful to set a bookmark as starting time while search the data.



#### PLAYBACK USER INERFACE

Playback buttons appears when locate the mouse pointer at the bottom of screen



# DEVICE

Search internal or external SYSTEM DISK .

**LOCAL DEVICE** Search the data of internal DISK.



# **BACKUP DEVICE**

Search backup device (Select when you play the backup data.) If there are various back up devices , you can select a specific one .



# Chapter-VI. Client program

#### REMOTE



#### <REMOTE PROGRAM IS?>

With connected to DVR remotely, it is to perform Remote Monitoring, Remote Search, Remote Backup etc. (Please install remote program from the program CD)

#### **Environment conditions for Remote Program**

- 1. INTEL P-4
- 2. 256M or higher main memory(512M recommend)
- 3. WINDOWS O/S(WIN 2000, XP, Vista(32bit))
- 4. 32MB VGA card supports RGB (ATI series recommend)
- 5. At least 10Mbps network speed (Max 100Mbps support)

Please note that some buttons and graphics may not be activated at this moment. Those inactivated buttons will be used later when system upgrades and expands 1

# Connection information and Button



Shows DVR's name, IP address and connection status.

DVR connection button.

Add

Silver 16Ch NTSC 192.168.5.112 OnLine Black 16Ch NTSC 192.168.5.111 Off Line Mt	10
Black 16Ch NTSC 192.168.5.111 Off Line	
Black 16Ch PAL 192.168.5.201 Off Line	
Black 9Ch PAL 192.168.5.49 Off Line	elete

<DVR Connection Window>

Address: 192.168.5.201 Service Port: 9013 ser certification Jser Name: admin Password: *	OVR name:	Black 16Ch PAL
Service Port: 9013	Address:	192.168.5.201
Jser certification User Name: admin Password: *	Service Port:	9013
	Password:	*
Password:	User Name:	admin

<New Connection/Modify Dialogue Window>

to connect DVR
Modify : Modify IP address and user authentication

: Enter IP address and user authentication

- of the existing list
- Delete : Delete existing use.

DVR name :

Specify a name that you can easily identify.

#### Address :

Specify assigned IP address to connect DVR (Type the Host name of REAL IP or DDNS.)

<What is IP address?>

A set of address system that is used to find out destination in network access via Internet or LAN.

IP address is divided into REAL IP and VIRTUAL IP, and REAL IP must be sent on DVR for the access from remote site via internet. You can be assigned with REAL IP Or DDNS service ID (Hostname of Dynamic Domain Name Server).

Service Port :Set this the same as the service port assigned to DVR.

<What is service port?>

Function to make the virtual IP available to the devices such PC or DVR with Automatic connection to the specified service port when remote access is made To router via the router or IP Share of one REAL IP. (But this function is available Only when router or IP Share supports it.)

User Name : Type the user name authorized in DVR

Password : Type the password authorized in DVR

Save Authentication Information :Save Authentication Information



Program Information and Set up



Program Information :

Shows Remote Program's information.

	XQLive
-	Version : 0, 0, 6, 0
	Last Update: 2007.07.23
	Net Version: 0.7.9.0

<Program Information Window>



Program Setup :

Sets up Remote Program.

(Language, Display Output, Resolution, Save Path, Network Speed Etc)

Program	
Language:	English
Video display metho	ods 🕫 YUV 🕜 RGB
Resolution from	1024X768 starts
(Xadaptable after r	rebooting.)
Etcetera	
Data save place:	C:WUsersWSpeedWDesktc
ALL COLUMN TIMES	10 🕂 Mnute
AVI saving time:	
Network circumstant	ce
Network circumstant	ce I High Speed C Low Spee

#### <Program Setup Window>

#### Language : To choose program's lang

To choose program's language.

Video Display : YUV mode : According to your PC graphic card ability, the support can be decided. This mode shows faster, clear ability of image transmission than RGB mode.

**RGB mode** : It is widely compatible with most graphic cards, and select this when YUV mode is not supported..

**Resolution from 1024X768 starts :** It always shows 1024 x768 when you check..

**\*** Above setting value will apply after restart of the program.

<Recommended Graphic Card> ATI series : Radeon7000series (More then 32M), RADEON series... NVIDIA series : M64series(More then 32M), GEFORCE series... Etc : VGA card to support YUV mode YUV...

Data Save Place :Sets ups basic path of AVI file to save.

AVI Saving time : Sets up saving time of AVI file from remote.

Network Speed : High Speed : System sends off images at high speed possible.

Low Speed : System sends off images at normal speed in consideration of stability.



# Status Icon



Status icon of connected DVR

СН	Resolution	Frame	Picture Qu	Sound
01	-	-	-	
02	360X240	5fps	Normal	Not use
03	720X240	1fps	Normal	Not use
04	360X240	1fps	High	Not use
05	-	-	-	-
06	360X240	5fps	High	Not use
07	720X240	1fps	Normal	Not use
08	1977	-		-
09		-		-
10	1020	24		2
11	360X240	5fps	High	Not use
12	720X480	30fps	Highest	Not use
13		-	-	-
14	720X480	1fps	Normal	Not use
15	720X480	1fps	Normal	Not use
16	720X480	1fps	Normal	Not use

 Event status

 1
 2
 3
 4
 5
 6
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 8
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 10
 11
 12
 13
 14
 15
 16

 Motion
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A	arm1	ON	OF
A	arm2	ON	OFF
A	arm3	ON	OFF
A	arm4	ON	OFF

Туре	Capacity	Used	Temperatur	SMART
HDD1	111GB	99%	37'C	Good
HDD2	279GB	92%	40'C	Good
HDD3	279GB	01%	39'C	Good
HDD4	-	-		No support



**REMOTE SEARCH Execution and Set Up** 



#### <Recording Status>

Shows and check the recording status

#### <Event Status>

Shows DVR's event status and you can check the status of Motion, Sensor, Video Loss at real time.

#### <Alarm Control>

You can On/Off the DVR's alarm if you press the Alarm control button.

#### <HDD Status>

Shows the connected DVR HDD status.

You can check temperature and status at real time.

## Set Up Execution

Pressing each button operates REMOTE SEARCH or Set Up.

REMOTE (LIVE) and REMOTE SEARCH are made up in separate program.

Remote Set Up <Camera>

Device	Device > Camera		
Alarm	Camera		
Save Record	1 No	1	-
Record Policy	Enable		
E Event	7 Title:	ShowBoom	
Sensor	□ □ Security	1	
System	Link PTZ		
	Name:	CB TECH CCD ZOOM	•
	ID:		0 -
		1	·
	Port bitrate:	9600	•
	Data bit:	8	-
	Stop bit:	1	
	Denite a	1	
	Parity:	None	<b>_</b>
	4 Audio		
	Channel:	No	-

No : Item to select camera No To set up all the camera equally, Choose "select all"

- Enable : Selection item to use camera, Removing the check stops using that channel.
- Title : Item to revise/type the camera name.
- Security : When checked, It displays 'Hidden' on monitor. (though it keeps recording)



PTZ address: Item to assign PAN TILT address per camera.
 Name :Item to check PTZ Camera's model name.
 ID : Item to select PTZ address per camera.

Port bit rate : Item to select the PTZ's port bit rate. Data bit :Item to select data bit. Stop bit : Item to select Stop bit. Parity : Item to select Parity.



(1)

(2)

3

Audio : Item to select which audio channel to be used among total 4 audio inputs.

Device	Device > Alarm				
Alarm	Alarm				
Save     Record     Record     Record	1 No:	1	•		
E Event	I Enable				
	Title:	ALARM1			
Video Loss	Type:	Normal Open	•		



No: Item to select Alarm No.

To set up all the camera equally, Choose "select all"

**Enable** : Item to select to use Alarm, Removing the check stops using that channel.

Title : Item to type Alarm's name.

Type : Item to select Alarm's type.

- Normal Open : Type of alarm open in general situation.
- Normal Close : Type of alarm close in general situation.

Remote Set Up <Record>

Device     Comore	Save > Re	cord								
Alarm	Record									
Record	1 No:						1			•
Record Policy	Resolut	tion:					720)	K480		•
Motion	Record	Mode					Ever	nt Reco	rding(E)	•
Sensor Video Loss System	Normal Recording Frame:				1 fps Normal		•			
	Normal Recording Quality Event Recording Frame:			-						
					1 fps		•			
	Event	Record	ing Qu	ality			High	est		•
	Schedul	e —								
	2	MON	TUE	WED	THU	FRI	SAT	SUN	Normal(N)	
	00:00	-							Durant/E)	
	02:00					2			C Evenue)	
	03:00								O NHE	
	04:00									
	05:00								Clear	
	06:00									
	07:00									
	08:00	-								



No : Item to select Camera No.

To set up all the camera equally, Choose "select all"

Resolution : Item to change the resolution.

- NTSC : 720X480, 720X240, 360X240
- PAL : 720X576, 720X288, 360X288

Normal Record Frame : Item to select normal record frame. Normal Record Quality : Item to select normal record quality.

Event Record Frame : Item to select Event (Motion + Sensor + Video Loss) record speed. Event Record Quality : Item to select Event (Motion + Sensor + Video Loss) record quality.

Schedule : Item to select record schedule.

- Normal : Always Record
- Event : Motion, Sensor, Video Loss
- N + E : Always + Event Record
- Clear : Delete the current record schedule.



2.Select Day/Time

# Schedule Indication by color

Normal(N) : (Blue)

Event(E) : (Red)

Normal(N) + Event(E) : (Green)

Clear (No Record) : (White)

< Schedule of Record> It is the list of selection in which schedule to use in operating the relevant camera channel.

First select the item you need among Normal time, Event and Normal time + Event.

Then drag mouse from the wanted position on time line.

To edit schedule record,you need to set record as schedule mode.

(1)

Device     Camera	Save > Record Policy				
Alarm     Alarm     Save     Record     Record Policy     Event     Motion	Policy:	Recycle			
– Sensor – Video Loss – System					

Record Policy: Item to select record policy

Overwrite : When HDD capacity is almost consumed, It erases old data and record new. Single Record : To stop recording on 100% of HDD capacity.

Remote Set Up <Motion>

Device	Event > Motion				
Alarm	Setup				
<ul> <li>⇒ Save</li> <li>Record Policy</li> <li>⇒ Event</li> <li>Motion</li> <li>⇒ Sensor</li> <li>⇒ Video Loss</li> <li>⇒ System</li> </ul>	1 Camera No: I Enable Sensitivity: Area:	1 3 2 Draw	▼		
	3 Link Record		Action		

#### Camera No : Item to select Camera No.

To set up all the camera equally, Choose "select all"

**Enable** : Selects to use motion sensor, Removing the check stops using that channel.

Sensitivity : Adjusts the sensitivity in motion detection. There are 5 steps and as the number increase, it gets more sensitive.



(1)

Area : Item to select motion area.



Area is selected when drag the mouse on the image.







Link Camera : Selects which channel to record when motion is detected on the relevant channel. **\* Multiple selection possible** 

Pre Record : Sets pre-event recording time. (Max 5 second) Post Record : Sets post-event recording time. (Max 60 second)

# Remote Set Up <Motion (Link Action)>

opup Camera:	1
upup Time:	5 + Second
ink Alarm:	1 2 3 4
larm Time:	5 - Second
uzzer Time:	0 - Second
Mail	
Callback	
Log	

Popup Camera : Selects which channel to Popup when motion is detected on the relevant channel.

**\*** It works when the Popup setting is 'Yes' on DVR.

Popup Time : Sets Popup time

Link Alarm : Select Alarm to be linked when motion Is detected. **\* Multiple selection possible** 

Alarm Time : Sets Alarm output time. (Max 30 second) Buzzer Time : Sets buzzer output time in DVR. (Max 30 second)

- Mail : When motion is detected, the log is sent to the selected e-mail.
- Call Back : When motion is detected, the log is sent to the selected IP address.
- Log : Item to save Log writing when motion detected. (It is not recorded on the system Log but used for event search.)

Motion detection function is a mode to detect in accordance with the amount of color Changes of image. So, please be careful that DVR keeps recording as continuous motion when the image of camera is blinking caused by light problem or camera Auto Iris problem.

Remote Set Up <Sensor>

Device	Event > Sensor				
Alarm	Setup				
Save     Record	1 Sensor No:	1	•		
Event	Enable				
Motion Sensor	Name:	SENSOR1			
System	Type:	Normal Open	•		
		0			



Sensor No : Sets sensor No.

To set up all the camera equally, Choose "select all"

Enable : Selects to use sensor, Removing the check stop using relevant sensor.

Title : Item to select sensor's name.

Type : Item to select sensor type.

- Normal Open : Type of Alarm open in general situation.
- Normal Close : Type of Alarm close in general situation.

3



Link Camera : Selects which channel to record when sensor is detected on the relevant channel.

Multiple selection possible

Pre Record : Sets up pre recording time. (Max 5 second) Post Record : Sets up post recording time. (Max 60 second)

# Remote Set Up <Sensor (Link Action)>

opup Camera:	1	•
upup Time:		5 ÷ Second
nk Alarm:	1 2 3 4	
larm Time:		5 - Second
uzzer Time:		0 ÷ Second
Mail		
Callback		
Log		

# Popup Camera :

Selects which channel to Popup when sensor is detected on the relevant channel.

\* It works when the Popup setting is 'Yes' on DVR.

Popup Time : Selects Popup time.

Link Alarm : Selects Alarm to be linked when sensor is detected. **\* Multiple selection possible** 

Alarm Time : Selects Alarm output time. (Max 30 second) Buzzer Time : Selects buzzer output time. (Max 30 second)

- Mail : When sensor is detected, the log is sent to the selected e-mail.
- Call Back : When sensor is detected, the log is sent to the selected IP address
- Log : Item to save Log writing when sensor detected (It is not recorded on the system Log but used for event search.)
Remote Set Up <Video Loss>

Device	Event > Video Loss	
Gamera Alarm Alarm Save Record Record Policy Event Motion Sensor Yuleo Loss System	Camera No:	1
System		
		3

**Camera No** : Item to select camera No. To set up all the camera equally, Choose "select all"



(1)

3



Link Camera : Selects which channel to record when video loss is detected on the relevant channel.

**\* Multiple selection possible** 

Pre Record : Sets up pre recording time. (Max 5 second) Post Record : Sets up post recording time. (Max 60 second)

#### Remote Set Up <Video Loss (Link Action)>

opup Camera:	1	•
upup Time:		0 ÷ Second
ink Alarm:	1 2 3	4
larm Time:		0 - Second
uzzer Time:		0 ÷ Second
Mail		
Callback		
Log		

Popup Camera : Selects which channel to Popup when video loss is detected on the relevant channel.

It works when the Popup setting is 'Yes' on DVR.

Popup Time : Selects Popup time.

Link Alarm : Selects Alarm to be linked when video loss.

**\* Multiple selection possible** 

Alarm Time : Selects Alarm output time (Max 30 second) Buzzer Time :Selects buzzer output time (Max 60 second)

Mail : When video loss occurred, the log is sent to the selected e-mail

- Call Back : When video loss occurred, the log is sent to the selected IP address.
- Log : Item to save Log writing when video loss occurred. (It is not recorded on the system Log but used for event search.)

Remote Set Up <System>

	Event > System	
Alarm	Disk Full	
Record Record Policy Event Motion	Disk Full Notice Enable	Link Action
- Sensor - Video Loss - System	Disk Error 3 I Disk Error Enable	0
	Ĭ	Link Action
	_ SMART	
	5 SMART Enable	6 Link Action
	-	

**DISK FULL** : List for all installed HDD disks.

Disk Full Notice Enable : Activate Disk Full Notice when installed disks are full.



(1)

#### Remote Set Up <Disk Full (Link Action)>

opup Camera:	-
upup Time:	0 = Second
ink Alarm:	1 2 3 4
Alarm Time:	5 🕂 Second
Buzzer Time:	0 - Second
Mail	
Callback	
Log	

Popup Camera : Not available as of now

Popup Time : Not available as of now

Link Alarm : Selects which Alarm to be linked when all installed HDD disks are full. **Multiple selection possible** 

Alarm Time : Selects Alarm output time. (Max 30 second) Buzzer Time : Selects buzzer output time (Max 30 second)

Mail : When all installed HDD disks are full, the log is sent to the selected e-mail Call Back : When HDDs are full, the log is sent to the selected IP address. Log : Selects to save Log writing when installed HDDs are full. (It is not recorded on the system Log, but used for event search.) (3) Disk Error : Shows data error on all of the HDDs installed. (Additional function soon) V. Enable Disk Error : When there is a disk error, it is linked to action. Remote Set Up <Disk Error (Disk Action)> Link Action Action Popup Camera : Popup Camera: . Not available at this moment Pupup Time: 0 - Second Popup Time : Link Alarm: 2 1 3 4 Not available at this moment 0 - Second

0 ÷ Second

Link Alarm : Selects Alarm to be linked when HDD error.

**\* Multiple selection possible** 

Alarm Time : Sets Alarm output time (Max 30 second) Buzzer Time : Sets buzzer output time (Max 30 second)

V. Mail : When HDD error occurs, the log is sent to the selected e-mail

Ok

Call Back : When HDD error occurs, the log is sent to the selected IP address.

Cancel

Log : Selects to save Log writing when HDD error. (It is not recorded on the system Log but used for event search.)

#### **SMART**

Alarm Time:

Buzzer Time:

T Mail

Callback ₩ Log

 $\checkmark$ Enable SMART : Select to use SMART feature.



It checks the physical errors and observes the HDD disk continuously such as Temperature, I/O device errors and general conditions of the HDD disk.



Popup Camera : Not available at this moment

Popup Time : Not available at this moment

Link Alarm : Selects which alarm to be linked

**\* Multiple selection possible** 

Alarm Time : Sets Alarm output time (Max 30 second) Buzzer Time : Sets Buzzer output time (Max 30 second)

Mail : When smart related problem occurs, the log is sent to the selected e-mail.

Call Back : When problem occurs, the log is sent to the selected IP address.

Log : Selects to save Log writing when smart related problem occurs (It is not recorded on the system Log but used for event search.)



Starts or stops image transmission on the Remote Live screen. This starts automatically when search or set in the setup menu.



Starts to play when pressed.



Stops to play when pressed.



#### **AUDIO Transmission**

Controls Audio volume. **\*Audio signal is sent on full screen mode only.** 





#### **Right Mouse Click Action**

When the right button is clicked on Remote Live, the following menu below appears and the following functions can be used.

Whole Scree	1
AVI saving b	egins
Image Saving	9
Printing	

Whole Screen : Hides the function button and shows the image full screen.

AVI Saving Begins : Starts AVI saving of the channel Selected. **\*Audio signal is saved on full** screen mode only.

Image Saving.. : Save image file of channel selected (Save JPEG or BMP) Printing.. : Print current image of the channel.

#### 8) Channel Button

Moves to the channel selected and it has the same function as double click the left mouse button on the selected channel.





#### Layout Modify Button

Screen Division Button : Selects desirable screen division. Whole Screen : All buttons are hidden and the screen displays full.



**\*** Left double click of mouse returns to the previous screen from whole screen.



10 PTZ Operation



Preset Move: Move to saved preset No. Preset Save : Save preset No.

1		-
Location:	J1	

<Preset Move>

Setting:	1	<u>*</u>
	Ok	Cancel

<Preset Save>

#### **Remote Search**



3 **Move & Event Search** Move Button : Move to selected time Event Search Button : Popup the event search window 2007-07-26 11:17:24 Start Time: Shows start and end time of recorded 2007-07-30 14:50:55 End Time: data. -2007-07-30 14:00:00 Go to time: Moves to the time to search and press OK button. Ok Cancel <Move Window> Event Search SearchCondition 2007-07-26 11:17:24 -Starting Time: Select the time to event search 2007-07-30 14:50:55 • Ending Time DetailedCondition 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Motion Select events in detail. Sensor ✓ NoVideoSignal RecordCamera Select the camera to search. Start Start event search. Click below Import SearchResult: button to list events. Event Time Event 2007-07-26 12:21:34 2007-07-26 12:21:28 Sensor-1 Sensor-1 2007-07-26 12:20:26 2007-07-26 12:20:02 Sensor-1 Sensor-1 2007-07-26 12:20.02 2007-07-26 12:19:46 2007-07-26 12:19:27 2007-07-26 12:19:19 2007-07-26 12:18:11 2007-07-26 12:17:45 Sensor-1 Sensor-1 Shows current searched event lists. Sensor-1 Sensor-1 Sensor-1 2007-07-26 12:17:37 Hotkey :Play the searched event. Sensor-1 Click Stop button first and select a certain event list and click Hotkey to play the event. Import : Search the next event list. ※ 10 lists are shown every time clicks <Event Search Window> import buttton

Please make sure to select "WRITE LOG" of the system. If not, event lists aren't searched.

4

#### **Connection Information and Button** Shows DVR's name, IP address and connection Silver 16Ch NTSC status. 192.168.5.112 OnLine ÓÒ Backup play button Connect/Disconnect Button : Button to connect to other DVR in the saved list **DVR** Connection When many DVRs are registered in the DVR list, each DVR can be DVR: [Silver 16Ch NTSC] 192.168.5.112 remotely searched without closing The Remote Program. Connection Close The linked list s can't be edited <Connection List Window> while search. 5 **Playback Button** Play / Pause Previous Frame : Next Frame: Play previous frames Play next frames reverse direction forward direction Starting : End : Move to starting of record data Move to end of record data Fast Rewind : Fast reverse Fast Forward : play every 1 minute Fast play every 1 minute Speed Control Bar



 $\bigcirc$ 

ZOOM

Zoom the selected part

Zoom Button :

G RESET

0

**Contrast adjustment button :** Adjust the contrast of playing images.

**Blurring adjustment button**: Adjusts the blurring of playing images.

Sharpness adjustment button: Adjust the sharpness of playing images.

**Reset button** : Initializes the adjusted image to original image.



#### Saving Button



Back Up :

Backup the searched image as compressed image file.

**Print :** Print the searched images.

Image Save : Saves the searched images as Image File. (Save JPEG or BMP)

**AVI Save** : Saves the searched images as AVI file.

Starage Information	2	_
Starting Time:	2007-07-26 23:00:00	
Ending Time	2007-07-26 23:00:00	*
Backup Camera:	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 A	
Including:	□ Audo □ Event	
BackupDevice		
BackupPath:	C:\XQ Test8K_20070726_230000	1
TotalCapacity:	9999	9 MB
LeftCapacity:	5531	1 MB
ſ.	1	0%
-		

<Backup Window>

#### Storage Information :

Select start and end time to backup image.

Backup Camera : Select the camera to backup

**Including** : Selects audio and event to include.

Backup Path : Selects the path to backup

**Total Capacity :** Shows total capacity

Used Capacity : Shows used capacity

Left Capacity : Shows remaining capacity



#### Preview :

Preview of the images to print, which is printed with various information written on the bottom of the image.

<Preview Window>

Saving Information	I		
Camera:	CH04		
Saving Path:	C:\BK_CH04	_20070730_1400	24.jpg
		-1	1

<Image Save Window>

#### Image Format JPG format :

Definition has a little loss due to loss compression method, but archiving size is small.

#### **BMP format :**

Archiving size is a bit big due to no compression, but it can be saved as higher definition than JPG.

#### Saving Path :

Selects the path to backup.

Backup Camera:	CH04
StartingTime:	2007-07-30 14:00:39
EndingTime	2007-07-30 14:00:39
Including:	🗖 Audio
BackupDevice	
BackupPath:	C:\XQ TestBK_CH04_20070730_14003
Total Capacity:	99999 MB
Left Capacity:	55310 MB
	0 %

<AVI Save Window>

#### **Storage Information** Selects camera No and start/end time to save.

Including : Selects audio to include.

Back Up Patch : Selects the path to backup

**Total Capacity :** Shows total capacity

Left Capacity : Shows remaining capacity

Check "Caption option" of Media Player to display time/date of playing AVI file.



#### 10) Right Mouse Click Action

When the right button is clicked, the following menu below appears and the following functions can be used

OriginalSize
AVI Saving Image Saving
Printing

Original Size : Shows original size.

AVI Saving : Starts to save AVI file

\* Audio signal is save only on full screen.

Image Saving.. : Save image of the selected camera (Save JPEG or BMP) : Print current image of the camera Printing..

(11)

#### Time Table

Selects year/month/day and hour/minute to search the recorded data.



Timeline Display : Displays in 24 hours system and one each line is 1 hour unit.



### **Chapter VI**



## Backup Playback



Backup Playback Button : Click to backup playback

		-					- dia 💻	
Location (	(D):	🔒 Remote	Search Back	( up	-	+ 1	<b>*</b> III <b>*</b>	
Name 🔺	+	Modified date  👻	Type 👻	Size	-			
XQ Te	stBK_	_20070725_02000	0-00,tdb					
le name(	N):	XQ TestBK	_20070725_02	0000-00			Open	(0)
le type (	 T):	Peeler Fil	a ( . talk)			-	-	
IC CYDC I	174	Dackup Fil	e (*.uD)				Can	COL

Select the backup data to play.

Backup playback can play a data of Image file.

Windows Media Player can play a data of AVI image files .

#### PLAYER



3



Fast Rewind

Stop Play / Pause



Sound volume Control Button

\*Audio signal is sent only on one full screen.





Layout Button



 $\ensuremath{\text{Layout button}}$  : Button to select screen division mode .

#### 6 Call function/Program Info



F.	XQPlayer
	Version: 0, 0, 6, 0
	Build: 2007.07.23

<Program Info Window>

#### **Call Function Button :**

Button to call in the back up file.

						275 10	1
Location ([):	🌙 Remo	te Search Bac	k up	-	+ 🖻 🕻	* 💷 *	
Name 🔺 🖌 👻	Modified date	Type -	Size	+			
XQ TestBl	(_20070725_020	000–00,tdb					
						1	
ile name (N):	XQ Test	3K 20070725 0	20000-00			Open (0)	
ile name ( <u>N</u> ):	XQ Test	BK_20070725_0	20000-00			Open ( <u>0</u> )	

Select the backup data to play

Backup playback can play a data of Image file.

Windows Media Player can play a data of AVI image files .

# Chapter-VII. APPENDIX

## Front Key Explain





ITEM	DETAIL	REMARK	
ESC	- Exit menu/mode - Return to search mode during playback		
ENTER	- Select each menu - Confirm input setup value - The Same function as mouse left click		
SETUP	- Enter into Setup menu		
BACKUP	- Backup menu in search mode - Prompt backup in playback mode		
MENU	- Menu setup - The same as mouse right click		
PTZ	- Enter into PTZ control mode		
ALARM	- Enter into Alarm control mode		
SPOT	- Spot monitor control		
RECORD	- Panic Record On/Off		
DISPLAY	- Display screen division mode		
SEQUENCE	- Start/end sequence display mode		
FREEZE	- Pause screen display		
ZOOM	- Zoom In/Out screen display		
BACK STEP	- Reverse step playback	CALENDAR SEARCH	
PLAY/PAUSE	- Play/pause	LATEST SEARCH	
STEP	- Step playback	EVENT SEARCH	
REW	- Rewind	FIRST SEARCH	
FF	- Fast forward	LAST SEARCH	
0~9	- 0 ~ 9		

## Hot Key to control the playback and display output on search display

ITEM	DETAIL	REMARK	
BACK STEP	- Enter to calender search mode	- Enter from search mode	
PALY/PAUSE	- Move to ending playback	- Enter from search mode	
STEP	- Enter to event search mode	- Enter from search mode	
REW	- Starting to Playback data	- Enter from search mode	
FF	- End to Playback data	- Enter from search mode	

## **Product Warranty**

Product Name		Model		
Serial NO.		Date of purchase		
Dealer	Address		Address	
Customer name	Address		Address	

#### Warranty period – 1 year

As warranty period is counted from the date of purchase, it is recommended that you get the date of purchase to be written.

(If you are not sure about the date of purchase, the warranty period is counted from the date when six months are passed from the date of manufacture.)

#### **Free Service**

We will recompense in accordance with free service or Consumer Damage Compensation, Ministry of Finance and Economy's Notification, in case there is any failure of performance or function, which occurred naturally under normal use of product within one year (warranty period) after purchasing the product.

#### Pay service

- 1. In case of failure due to consumer's mistake
  - -in failure due to the careless handling, repair or conversion of the consumer -in failure due to the repair by unqualified person instead of dealer or service
  - -in failure due to the repair by unqualified person instead of dealer or service center engineer
  - -in failure or damage due to falling or such things during relocating after installing
  - -in failure due to abnormality of used power or inferiority of the networks and apparatus that is attached to this product
- 2. In case of other reasons such as disasters (fire, salt damage, flood, landslip, etc....)