KVR-B004 Basic

KVR-B004NA Basic + 1Ch Audio Model Network Model

User's Manual

Thank you for purchasing our product.

The pictures may be different from the actual system depending on specifications.

We recommend users who install and operate this unit to thoroughly read this manual and other reference manuals indicated in this manual before installation and operation.

Specifications are subject to changes without prior notice to incorporate improvements in the performance of the unit.

This manual and the software are protected by COPYRIGHT LAW.

This model is manufactured to international safety standards. Review the following safety precaution to avoid injury and prevent damage to the DVR or any products connected to it.

1. Use a proper power source.

Do not operate this product from a power source that applies more than the specified voltage (90~260 VAC).

- 2. Never insert metallic material into the DVR case. This can cause electric shock.
- 3. Do not operate in wet & dusty conditions. Keep product surfaces clean and dry.

Avoid placing the DVR in areas like a damp basement or a dusty hallway.

4. Do not expose this product to rain or use near water.

If the product gets wet, unplug it immediately and contact an authorized dealer.

5. To clean the outside case of the DVR, use a lightly dampened cloth (no solvents).

6. The DVR generates heat during operation. Place the DVR in a well ventilated area. The DVR has a built in fan to properly ventilate the system. Do not block air bent holes (bottom, upper, sides and back) of the DVR case.

7 Do not operate with suspected failures. If there are any unusual sounds or odors coming from the DVR, unplug it immediately and contact an authorized dealer or service center.

8. Do not attempt to remove the top cover.

Warning: Removing the cover of DVR can cause severe electrical shock.

9. Use standard lithium cell battery. NOTE: Battery is installed in the system.

The standard lithium cell 3V battery located on the mother board should be replaced if the time clock does not hold its time after the power is turned off.

Warning: Unplug the DVR before replacing battery or you may be subjected to severe electrical shock. Properly dispose of old batteries.

Caution: Risk of explosion if battery is replaced by an incorrect type. Do not discard lithium batteries into the trash can or into fire. Dispose in accordance with local waste regulations.

10. Some DVR models use a DC adapter because the power supply is outside the DVR cabinet.

Use only the DC adapter provided.

FCC COMPLIANCE STATEMENT

Caution: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTEC-TION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRON-MENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT IN-STALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS, OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WITCH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THIS OWN EXPENSE.

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1. SYSTEM CONTENTS

Below picture shows the contents of the system package. Open the packaged box and check the items contained within.



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4

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6

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NO	Contents	Volume
1	System	1
2	POWER CORD	1
3	AC-DC ADAPTER	1
4	Manual	1
5	Software CD	1
6	Remote Controller(Option)	(Option)

Reference Contact the seller or a customer service center if any of the items listed are missing or damaged upon receipt. The manual, power cord, remote control and CD may not be identical to the picture shown.

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2. BUTTON FUNCTIONS

2.1. FRONT PANEL



Each button on the system's front panel is used to operate the system's basic functions such as recording,

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NO.	NAME	FUNCTION
1	POWER LED	Indicates the power's ON/OFF status.
2	REC	Indicates the system's is recording state.
3	EVENT	Event search.
4	TIME	Time search.
5	ONE_FRAME	Plays back one frame when playback is slow.
6	MENU	Displays the on-screen menu.
7	CH4(LEFT)	Displays Channel 4 individually in full screen mode or left button.
8	CH1(UP)	Displays Channel 1 individually in full screen mode or up button.
9	CH2(RIGHT)	Displays Channel 2 individually in full screen mode or right button.
10	CH3(DOWN)	Displays Channel 3 individually in full screen mode or down button.
11	ALL(ENTER)	Display images of all 4 channels in quad screen mode or enter button.
12	SLOW	Plays back image slowly.
13	FF	Fast Forward.
14	PLAY/PAUSE	Play/Pauses playback.
15	REW	Rewind.
16	STOP	Stops playback or record.
17	REC LED/REMOCON	Record status LED/Remote receiver LED

playback, fast-forward, reverse, etc.

2.2. BACK PANEL

Below picture shows the back panel of the system.



No.	NAME	Description
1	VIDEO OUT	Video Output Port
2	VIDEO IN	Video Input Port
3	AUDIO OUT	Audio Output Port
4	AUDIO IN	Audio Input Port
5	POWER IN	Port for connecting DC ADAPTER (+12V).
6	POWER SWITCH	Turns the system on.
7	LAN	Port for connecting LAN cable(RJ45).
8	ALARM/SENSOR	Port for connecting outside input sensor and a single alarm device.

3. SYSTEM FUNCTION

3.1. SYSTEM START

The system will go into a self test once it is powered on. The contents of test are HDD1 and HDD2, LAN, AUDIO FUNCTION, etc. Even if an unexpected situation such as power loss happens during recording, the system will return to record mode automatically once power is restored.

3.2. HDD DETECTION

Duration of the HDD Test depends on the HDD Specification. If test time takes longer than 2 minutes contact a service center. This system accepts two HDDs maximum. After system recognizes a HDD, system displays an "OK" sign to indicate that the HDD is available to the system. If the system does not recognize a HDD, then the message "NOT installed" is shown.

After system recognizes a new HDD, the HDD must be formatted. A HDD formatted on this system will no longer be recognized by a PC.

Reference	If the model of the HDD is not shown on the HDD test screen, no images will be saved.
	Check to make sure that the HDD Rack is Locked.

After finishing the HDD test, "LAN check OK" will be shown on the screen. The system can now be connected to an Ethernet. "AUDIO OK" will be displayed next. Audio can now be recorded.

If the RTC Battery fails, the user must set the system back to factory default. Factory values are listed in the set up section.

RTC (REAL TIME CLOCK) CHIP saves the system information.

Reference If the system experiences an unexpected power failure, the system will return to the previous recording state automatically once power is restored.

3.3. MONITORING MODE

After finishing HDD, LAN and the AUDIO tests, the system will display a quad monitoring screen.

	അ			
	<u>en</u>			
used: E	30923 (JM) 20	005/11/08	12:04:09	8

The basic system information is indicated on the lower part of the monitor. USED 30% indicates the percent of used HDD capacity. [M] or [S] indicates the HDD I use. [M] is the master HDD and [S] is the slave HDD. In case of no HDD, system will show NO HDD. "2005/11/03 12:04:09" indicates time set of the system. "*" mark indicates the overwrite function of HDD. CH1, 2, 3, 4 indicates channel information.

When the system does not detect any input signal, system shows a blue back screen. If system shows a blue back screen even when cameras are connected, please check connections between the system and cameras once more.

When a channel select button is pressed, the system will display the channel selected in full screen as shown below.



In order to see the quad mode screen, press the ALL button. In order to set automatically scan monitoring screens, press the channel button that is already selected in full screen mode. This function shows each channel for a set duration until stopped.

In order to stop automatic scanning, press any key on the front panel.

The duration of each screen can be set at MENU->SYSTEM->DISPLAY PERIOD. The default duration is 2 seconds.

4. SETUP MENU

4.1. SETUP MENU STRUCTURE AND INITIAL VALUE

The setup menu and its factory default values of this system are listed in the table below.

SETUP		FACTORY DEFAULT
	CHANNEL1~4	YES
	MODE	EACH
	FRAMERATE	30
RECORD	QUALITY	NORMAL
	HDD SEQUENCE	-
	SCHEDULE	TIME RECORD[T]
	MUTE	NO
AUDIO	RECORDING	NO
	CHANNEL	CH1
GENGOD	CH1~4 TYPE	NONE
SENSOR	RECORDING TIME	10SEC
MOTION	CHANNEL1~4	NO
MOTION	SENSITIVITY	05
	CHANNEL1~4	NO
ALAKM	DURATION	5SEC
	HDD OVERITE ENABLE	YES
HDD	MASTER HDD FORMAT	-
	SLAVE HDD FORMAT	-
	DISPLAY PERIOD	02
	DATE FORMAT	YYYY/MM/DD
SYSTEM	TIME SETUP	-
	PASSWORD	111111
	FACTORY DEFAULT	-
NETWORK	CLIENT ACCESS ENABLE	YES
	DNS	192.168.1.1

12/42

IP	192.168.1.90
GATEWAY	192.168.1.1
SUBNET MASK	255.255.255.0
MAC ADDRESS	00:11:3D:XX:XX:XX

4.2. SETUP

When user presses the "MENU" button in the monitoring screen, the system will ask for the password as shown below. Once the password is entered, the setup menu will be displayed.



In the setup menu, press the RIGHT or LEFT button to toggle between the MAIN MENUS. The MAIN MENUS are RECORD, AUDIO, SENSOR, MOTION, ALARM, HDD, SYSTEM, and NETWORK setup. Press the UP or DOWN button to select each SUB MENU that is belonging to the corresponding main menu each. Press the MENU button once again to exit the setup menu.

4.2.1. RECORD SETUP

RECORD SETUP is used to set values related to recording.



4.2.1.1. CHANNEL 1~4

Select [YES] to record the specific channel. System will not record the given channel if [NO] is selected.

4.2.1.2. MODE

To select the recording mode, navigate to [MODE].

Press the Select button to choose either [EACH] or [QUAD] Mode. In EACH MODE, system records images of each of the 4 cameras to a separate screen so that the recorded images can be played back using the 1, 2, 3 and 4 BUTTONS to display each screen at full screen or all four in a Quad View. In QUAD MODE, system records images of all 4 cameras to one full screen so that user can not view specific channels separately.

The factory default setting is EACH MODE.

4.2.1.3. FRAME RATE

Use the SELECT BUTTON to choose the desired frame rate for recording. The factory default is 30(NTSC) or 25(PAL), frame per second. The higher the record frame rate, the more natural the motion of playback

will be. The lower the record frame rate, the smaller the file size of the recordings, saving HDD usage. There are 9 settings for NTSC: 1, 2, 3, 4, 5, 7, 10, 15, 30, and 8 settings for PAL-8 kinds: 1, 2, 3, 5, 6, 8, 12, 25.

If AUDIO RECORD is selected, User can select only between 5, 7, 10, 15, or 30 frames.

4.2.1.4. QUALITY

Navigate to VIDEO QUALITY in order to set the quality the images are to be recorded at. Then, use the SELECT BUTTON to choose between LOW, NORMAL or HIGH. The higher the video quality, the cleaner the image will be during playback. The lower the video quality, the more space user will save on the hard disk drive.

NOTE: The video quality in VIEW MODE is not affected by the video quality settings. These settings only affect the video quality during playback of recorded video.

4.2.1.5. SCHEDULE

The SCHEDULE Sub Menu can be used to setup specific times and days of the week for the system to record. Navigate to SCHEDULE, and then press the SELECT Button to display the following menu.

 Sett LRECORI ALARN 	oedua [c bidua [c hdd	Sensor M System Ne	CB.XXXX NOLTON XINOWTR
[Rec [T:T: Mon: Mon: Tue: Wed: Thu: FRE: SAT: [◀ ▶	010 SCHEDUL INE S:SENSO 0 B 6 9 1 I I I 1777777777 1777777777 17777777777	 DR →: NO RECC DR 12 15 18 1 1 1 AT TATATA AT TATATATA AT TATATATA AT TATATATA AT TATATATA AT TATATATA AT TATATATA AT TATATATA AT TATATATA AT TATATATA AT TATATATA	0 2 2 2 2 2 2 2 2 2 2 2 2 2

The first "T" on the left is equal to the first hour of the day (12 midnight through 1:00 am). The next "T" equals the second hour of the day (1:00 am - 2:00 am), and so on. Press the UP, DOWN, LEFT, and

RIGHT Buttons on the system's front panel to move the cursor to the desired time selection. Then, press the SELECT Button to change between continuous recording (T), sensor recording (S) and no recording (-) for the selected time a slot.

- (T) System will record continuously during this period.
- (S) System will record when sensor is triggered.
- (-) System will not record during this period.
- The factory default setting is (T) for all hours.

4.2.2. AUDIO SETUP

Audio Options can be configured here.



4.2.2.1. MUTE

Mutes the Audio Output.

4.2.2.2. RECODRING

Audio is recorded along with the images.

4.2.2.3. CHANNEL

Select the input channel for audio.

4.2.3. SENSOR SETUP

The SENSOR Menu is used to setup recording that is triggered by an input sensor.

The Type of sensor and recording times can be specified.



4.2.3.1. SENSOR TYPE 1, 2, 3, 4

There are 3 different modes for sensor activated recording:

- NOT INSTALLED: no sensors are connected to the system.
- TYPE: NORMAL-OPEN
- TYPE: NORMAL-CLOSE

In order to set the mode for sensor activated recording, navigate to each channel and press the SELECT Button, then choose either NOT INSTALLED, TYPE: NORMAL-OPEN, or TYPE: NORMAL-CLOSE. In NORMAL-CLOSE mode, sensor recording starts if an intruder cuts the cable line that connects the sensor to the system. In NORMAL-OPEN mode, sensor recording starts when the circuit is closed.

See RECORD SCHEDULE for reference.

4.2.3.2. RECORDING TIME

RECORDING TIME is used to set the duration to record after the sensor's last detection of movement. Default value is 10 Seconds.

4.2.4. MOTION, SENSOR SETUP



Use the MOTION Menu to setup Motion Recording. Motion Recording works the same way the Sensor Recording does. When the system detects motion, it will send a signal to the Input Sensor. Setup each channel separately.

The factory default setting is -,-,-.

4.2.4.1. MOTION SENSOR CHANNEL1~4

Setup each channel for Motion Recording

4.2.4.2. SENSITIVITY

Decides the sensitivity of motion detection. The higher the value, the more sensitive detection will be.

4.2.4.3. RECORDING TIME

The Duration to record in the event motion is detected

4.2.4.4. SELECT AREA

Select the Area where motion is to be detected.

М	Й	M	M)1	M	М
M	M	M	M	M	M
M	М	M		M	M
M	М	M	M	M	м

Each channel must be setup separately. Switch between channels using the SLOW Key. UP, DOWN, LEFT, and the RIGHT keys, will change the location of the cursor. Press the ALL Key to mark or clear the selected area. Motion will be detected from all areas marked M. Clear areas will be ignored.

4.2.5. ALARM SETUP

Alarm output needs to be set according to sensor or motion setup.

If alarm duration is set to any value except 0, the alarm output is based on sensor input. After the alarm duration passes, the alarm output will stop. Alarm output also depends on motion input. When motion input is perceived, the alarm will output.



4.2.5.1. ALARM CHANNEL 1~4

It sets up sensor channels related with the alarm. When channels set to [YES] then, alarm will output.

See SETUP MENU-> SENSOR and MOTION for sensor setup. When alarm is set, then monitoring or recording screen shows ALARM[1U--] in upper left side as below picture. "U" means that Channels are not set.

ALARN []	105]				
		(anı	cii2		
		Q	an B	CH4		
used:	B0%	010	200	5//11//08	12:04:09	ଷ

The previous picture shows the state of alarm setup. Only the second channel is not set. The first channel detects motion or other source and outputs alarm.

4.2.5.2. DURATION

It indicates how long the alarm lasts after it sets off.

4.2.6. HDD SETUP

It shows basic information of HDD and sets up the initialization and overwrites of HDD.



4.2.6.1. HDD OVERWRITE ENABLE

If user chooses YES (default setting), recording continues and overwrites previous recording when HDD space is full. In this case, old data is erased first. If user chooses No, the recording session stops when all HDD is full.

4.2.6.2. MASTER, SLAVE HDD FORMAT

When system recognizes HDD, it shows [EXIST]. If not, it shows [NO HDD].

In case of [EXIST], User can format HDD but be aware that all data in the HDD is erased.

4.2.6.3. HDD SUMMARY

It shows the information of HDD used. 1MB is 1048576BYTES.

4.2.7. SYSTEM SETUP

It initializes time, channel display period and system.

			[B. Oon	CA
RECORD	AUDICO HDD	Sensor [system]	Motzon Network	
© CDESPI DATE DATE DTEME DPASS FACTOR	ay peri Cornat Setup Iord Iord IY defau	od [yyyyy Lt	[oz] /mm/dd]	
[4] 4	₹]move [√]Select [o]exit	

4.2.7.1. DISPLAY PERIOD

Channel rotation time is set on monitoring mode. Channel rotation is only possible when the system is set by EACH MODE. The factory default setting is two seconds.

4.2.7.2. DATE FORMAT

It changes the date format. It supports YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY formats.

4.2.7.3. TIME SETUP

Setup ≥ Record Audio Alarm HDD	[B.XXXX] Sensor Motion [System] Network
(TTIME SETUP)	
Dytear f 6 Month f 4 Su Date f 12 Hour f 15 2 Min f 27 9 Sec f 9 16 Day fwe 23 Bo	2005 M0 TU WE TH FR SA 1 4 5 6 7 3 10 11 12 13 14 15 10 11 12 13 14 15 17 18 19 20 21 22 24 25 26 27 28 29
[4 ⊳ ▲ ♥] Move	(~)select (o)exit

It changes the time of system. The change of time is possible between 2005 year and 2099 year.

4.2.7.4. PASSWORD

It changes system password. A password is used for system security. The factory default password is "111111". CH1, 2, 3 and 4 are used to enter password.

			[B. CONA]
RECORD	AUDIO HDD	SENSOR [System]	MOTION Network
[]Pasewo Current New Pas Confer	DRD] 7 PASSWO SSWORD 1 PASSWO		
[4] 4	♥]move [JSELECT (o]exit

4.2.8. NETWORK SETUP (Static IP Network model, Dynamic IP Network model)

It sets up network part. This DVR supports dynamic network IP with DIPS server. The DIPS is Dynamic network IP Service. When you use a dynamic IP such as ADSL or VDSL and so on, customer can not access the DVR with the client program easily, because the DVR IP is changed automatically. To solve this problem, DIPS server records the DVR IP and DVR sends the own IP to the DIPS server. Therefore, you can access the DVR via DIPS server. Detailed information is shown as below.



4.2.8.1. CLIENT ACCESS ENABLE (Static IP Network model, Dynamic IP Network model)

It controls access of the CLIENT PROGRAM. If yes, the DVR system is allowed to connect to a client program via network.

4.2.8.2. DHCP ON (Static IP Network model, Dynamic IP Network model)

DHCP function is that the DVR system gets the value of IP, SUBNET mask and gateway from the DHCP server automatically. Therefore, if DHCP server does not exist on your network, You MUST set DHCP to NO.

4.2.8.3. GET DNS AUTOMATICALLY (Dynamic IP Network model only)

DVR gets the DNS IP from DHCP server automatically. If DHCP server does not exist, You MUST set this configuration to NO and then user sets up the value of DNS IP manually. DNS is Dynamic Naming Service.

4.2.8.4. GET DIPS FROM DNS (Dynamic IP Network model only)

When "GET DIPS FROM DNS" is YES, DVR gets DIPS IP from DNS server automatically. If the value of DNS IP is not correct, DVR is not able to connect to DIPS server. In this case, you MUST set this configuration to NO and then YOU set up the value of DIPS IP manually. Currently DIPS IP is 222.231.024.028. The DIPS server stores a DVR's IP. When the DVR connects DIPS server via network, the DVR sends it's own IP to the DIPS server. As soon as client program is executed, the client program gets the DVR IP automatically. Refer to the client manual for more detail information.

4.2.8.5. INFORMATION RELATED NETWORK CHANGE

It changes DNS, DIPS, IP, GATEWAY, SUBNET MASK and MAC ADDRESS setup.

If DHCP ON is YES, Users can not change the value of the IP, gateway, subnet mask manually. If DHCP ON is NO, the DVR cannot get the values of IP, subnet mask, gateway and DNS from DHCP server automatically. Therefore "GET DNS AUTOMATICALLY" item is valid when DHCP ON is YES.

The value of DNS, DIPS, IP, GATEWAY, SUBNET MASK and MAC ADDRESS can be changed manually. Move the keys using UP and DOWN and then press the ENTER KEY. A network submenu is shown as below picture and then you change the value.

	[B. XXXX]
Regord Audeo	Sensor Motion
Alarn HDD	System [network]
Client Access	ENABLE [MES]
Dhigp on	[NO]
Get DNS Autom/	ATTICALLY [NO]
Get Dips From	DNS [MES]
odips	222.281.024.023
Dip	192.163.001.090
Dgatteway	192.163.001.001
Oswonet Mask	255.255.255.000
Omag Address	00:11:80:00:00:10
[⊲ ⊳ ▲ \ >]Move [<	¥]SELECT [¤]EXIT

5. RECORD FUNCTION

To start recording, press the "REC" button on the front panel.



The above picture shows the information of recording status.

- E-REC: Each Record.
- Q-REC: Quad Record.
- [M]: Master HDD.
- [S]: Slave HDD.
- 30%: 30% of HDD is used.
- [T]: Continuous Record.
- [S]: Sensor Record.

To stop recording, press the "STOP" button on the front panel and input the PASSWORD.

stop re Enter passwo	Conding RD :
G 11	GH2 🗆
o che	CH4 🗆
E-REC 80% (RD (TT) 20	05/11/08 12:04:09 [©]

There are two recording modes, CONTINUOUS RECORDING MODE (T) and SENSOR RECORDING MODE. See SETUP->RECORD->SCHEDULE for further reference.

To schedule recording at a specified times throughout the day, navigate to SCHEDULE. Then, press the SELECT BUTTON to display the following menu.

The numbers below indicate the hours of the day based on a 24-hour clock. The first "T" on the left is equal to the first hour of the day (12 midnight through 1:00 am). The next "T" equals the second hour of the day (1:00 am - 2:00 am), and so on. Press the UP or DOWN BUTTON on the system's front panel to move the ARROW "V" to the desired time selection. Then, press the SELECT BUTTON to change between continuous recording (T), sensor recording (S) and no recording (---) for the selected time a slot.

- (T) System will record continuously during this period.
- (S) System will record when sensor is triggered.
- (-) System will not record during this period.
- The factory default setting is (T).

If POWER shuts off during recording, the system will automatically recover all system data and resume recording when POWER is restored.

Reference Even through unexpected situations such as power loss, during recording, the system will return to recording automatically upon restoration of power without damage.

6. SEARCH AND PLAYBACK FUNCTION

6.1. SEARCH FUNCTION

When the playback button is pressed at the monitoring screen, the most recent image is played back. The Search function has two modes, event search and time search.

6.1.1. EVENT SEARCH



When the "EVENT SEARCH" button is pressed, the event search screen is displayed as shown above. Use the UP and DOWN buttons to find the event to view. Press the PLAY or ENTER button to start playback of the event chosen. The total number of events is 64.

6.1.2. TIME SEARCH

When user presses the "TIME SEARCH" button, time search screen is showed as shown below.



The screen above shows the beginning and the end of the recorded time on the HDD. Use the LEFT or RIGHT BUTTON to view a specific time, then playback the image.

6.2. PLAYBACK FUNCTION

Playback function has several modes as below.

BUTTON NAME	FUNCTION	
PLAY	Normal playback or Stop Playback momentarily.	
EE	Fast playback. This has 5 modes (4, 16, 32, 64 and 128). Press FF to change the	
ГГ	normal speed of playback.	
REW	Fast Playback backward with 5 modes. (4, 16, 32, 64 and 128).	
STOP	Stop Playback and returns to monitoring screen.	
SLOW	Playback slow with 3 modes (1/2, 1/4, and 1/8).	
ONE FRAME	Playback image frame by frame when playback image is set at slow.	

The optional playback mode is normal playback, fast playback, fast playback backward, slow playback and one frame playback. The image recorded by EACH MODE can be displayed with QUAD or FULL screen. The image recorded by QUAD MODE can be displayed with QUAD screen only.

User playback images recorded by EACH MODE, uses CHANNEL 1,2,3,4 and ALL button to change screen. The basic information of image recorded is showed in lower part of the screen. It shows time, HDD information, record mode and playback speed of image recorded.

	CH1	GHZ		
Dadeach play	CHB 200	CH4 5/11/08	12:04:09	œ

7. PTZ CONTROL (OPTION)

Audio and Network models support PTZ function with PELCO-D protocol via RS485 serial interface. Push the "SLOW" button on recording or monitoring mode to enter PTZ control mode. PTZ control buttons are described in the table below.

BUTTON	Description
SLOW (PTZ)	Enter PTZ Control mode or exit.
CH1 (UP)	"UP" command. The camera moves left.
CH2 (RIGHT)	"RIGHT" command. The camera moves right.
CH3 (DOWN)	"DOWN" command. The camera moves down
CH4 (LEFT)	"LEFT" command. The camera moves left.
ONE FRAME (ZOOM IN)	"ZOOM IN" command.
MENU (ZOOM OUT)	"ZOOM OUT" command.
ENTER (Select PTZ camera)	Select the camera ID to control PTZ camera.

Push the "SLOW" button to enter PTZ control mode.



Press the "ENTER" button to select the PTZ camera as below.



If the PTZ camera is connected to CH1, select CH1 using "ENTER" button and then press command button such as "UP, DOWN, LEFT, RIGHT ZOOM IN and ZOOM OUT" buttons. After cameras are positioned correctly, press the SLOW button to EXIT.

8. SEARCH PROGRAM

8.1. PURPOSE



This manual is for the "4CH DVR". User can see the images recorded in HDD through computer.

8.2. DETAIL FUNCTION

8.2.1. BASIC SCREEN

	2 English	7 🖲
<u>)</u>	b	
Not Connected HDD C	Event d Control C Image: Control C Image: Control C	Audio Control f

- View This shows image.
- Scrollbar The total length of Scrollbar is proportional to the capacity of the HDD. If user moves scrollbar, the image moves to the specified time.
- HDD This shows the connection between the HDD, Viewer and the capacity of HDD.
- Event This shows the list of events recorded in HDD. User uses this function to search event desired and playbacks image on time (Year, Month, day, Hour, Minute and Second).
- Control This controls the functions of Record, Stop, RW, Play, Pause, and FF.

8.2.2. DVR HDD CONNECT

Not Connected		Not Connected
HDD Event	Control	Audio Control

First Hard Disk Drive (HDD) should be connected with PC through USB Drive or IDE Connector.

4CH DVR Viewer v1.1 English	×
Local Backup HDD	
Connect Backup HDD	

User clicks "Connect Backup HDD" button. Above picture shows that viewer recognizes HDD. If a button is not activated, user checks connection between HDD and PC. If no problem, user opens viewer and try again.



If HDD is recognized, a button is pressed like a picture. User can use all functions of a viewer.

8.2.3. HDD CAPACITY INFORMATION



This button shows the total capacity of HDD recognized, the capacity of HDD used and the capacity of HDD remaining.

DVR Hard Drive Information
General DVR Hard Disk Information
The total capacity is 40 GByte [40020 MByte] Hard Drive: Installed Total Space: 40 GByte [40020 MByte] Used Space: 37 GByte [37740 MByte] 94.30% Free Space: 2 GByte [2280 MByte] 5.70%
ОК

8.2.4. EVENT LIST



4CH DVR records starting time as event when image is recorded every time. This function shows event recorded for user to search image desired.

No.	TYPE	Start Time	End Time	Position	
1	TIME	2005/10/13 19:44:11	2005/10/13 19:58:38	4760590	
2	TIME	2005/09/12 00:00:00	2005/09/12 14:20:47	26e71e0	
3	TIME	2005/09/11 07:27:06	2005/09/12 00:00:00	40	
4	TIME	2005/09/11 00:00:00	2005/09/11 07:27:06	40d13a0	
5	TIME	2005/09/10 00:00:00	2005/09/11 00:00:00	a49c20	
6	TIME	2005/09/09 20:31:02	2005/09/10 00:00:00	40	
7	TIME	2005/09/09 00:49:13	2005/09/09 20:31:02	40	
8	TIME	2005/09/09 00:00:00	2005/09/09 00:49:13	48d48d8	
9	TIME	2005/09/08 16:43:00	2005/09/09 00:00:00	34d1bd8	
10	TIME	2005/09/08 16:31:40	2005/09/08 16:40:13	347a858	
11	TIME	2005/08/29 00:00:00	2005/08/29 13:42:36	d1e478	
12	TIME	2005/08/28 19:46:32	2005/08/29 00:00:00	40	
13	TIME	2005/08/28 00:00:00	2005/08/28 19:46:32	11e8a98	
14	TIME	2005/08/27 18:19:32	2005/08/28 00:00:00	40	
15	TIME	2005/08/27 00:00:00	2005/08/27 18:19:32	1476968	
16	TIME	2005/08/26 17:34:04	2005/08/27 00.00.00	2550	1
¢					2

User selects "Event" Icon for moving, then select event desired on "Event List" Dialog. After this, user selects "OK" Button and playback is started from desired point.

8.2.5. SEARCH



User can move starting point directly and playback image using Search function.

Date Search	×			
Search Condition 2005 • / 09 • / 11 •	Search			
07 • : 27 • : 06 •	Cancel			
Infomation Start Date : 2005/09/11 07:27:06 End Date : 2005/10/13 19:58:38				

The condition of search is Year, Month, Day, Hour, Minute and Second. "Start Date" and "End Date" in "Information" indicates the range of the search. This range indicates the starting point and the finishing point of the recording session. Search can be possible within this range. User selects date and "Search Button" to see the image at that point of time.

8.2.6. CONTROL



Control buttons are for image control.



- PAUSE Pause
- Fast Forward, Fast Playback. Playback speed increases by one. Maximum speed is 128X. To return to normal speed, press Play button.
- Rewind Reverse Playback. To return to normal speed, press Play button.
- Record Record Button. The File Format of image is AVI. The name of the codec is MPEG4.

8.2.7. ZOOM CHANNEL



In order to scale up image during playback, Move the mouse pointer to the desired channel and left Click. The desired channel will scale up. In this case, record type should be Quad type.

8.2.8. SAVE TO JPEG FILE

During playback, user can right click the mouse anywhere on the screen, then "DVR-image-001.jpg" will be recorded in folder which includes HDDViewer.exe. The name of next image is "DVR-image-002.jpg," "DVR-image-003.jpg" and so on.



8.2.9. RECORD

During playback, User presses button, below dialog-box is shown and record is started.

	Save As			?>	<
	Save in: 🗀	TempDir	▼ 🗢 Ē	₫	
	File <u>n</u> ame: Save as <u>t</u> ype:	test01.avi MyType Files (*.avi)		<u>S</u> ave Cancel	
In order to stop reco will display and reco diaPlayer10.	ording, user p ord will stop.	resses button Image file (*.avi) re	and a confirmation	window ed by Me-	HDDviewer 💌 Avi Save Ok!!

9. SPECIFICATIONS AND HDD USAGE CHART

Item		Basic +1 Audio. Network	Remark
OS		Real-time OS	
Video Input		4 Channel	
Video Output		2 Channel	
Video Input Standard		NTSC / PAL	
Monitoring resolution	NTSC	640 * 480 Pixels	
	PAL	640 * 576 Pixels	
Decenting and lating	NTSC	640 * 224 Pixels	
Recording resolution	PAL	640 * 272 Pixels	
	NTSC	120 fps(Quad) / 30 fps(Each)	
Display Frame rate	PAL	100 fps(Quad) / 25 fps(Each)	
Decentine France acts	NTSC	30 fps(Quad) / 7.5 fps(Each)	
Recording Frame rate	PAL	25 fps(Quad) / 6.25 fps(Each)	
Recording Mode		Continuous /motion, sensor	
Display Mode		FULL/QUAD	
Compression Format		Motion JPEG	(8~20Kb/frame)
Image Size (Dech	Low	12 Kbytes/frame	
Channel)	Normal	15 Kbytes/frame	
Channel)	High	20 Kbytes/frame	
POWER		AC/DC Adaptor (12V, 5A)	
HDD Capacity		HDD * 2	
HARD RACK		One HDD is installed in the HARD RACK.	
Motion detection		ON / OFF, and selectable motion sensitivity	
Audio		4 CH Input / 1CH Output	
PTZ Control		PELCO-D, RS485 (2400bps)	
Software		Multi viewer software	
Operating Systems Supp	orted	WIN_2000, WIN_XP	
Camera Power(12V)		+DC 12V	
Sensor/Alarm		4 CH Input / 1 CH Output	
Operation Temperature/I	Humidity	5~40 ℃ /20~80% RH	

Quality	Frames/Sec	1 Frame	1 Hour	1 Day	10 Days	20 Days	30 Days
Mode	f/s	kilobyte	megabyte	gigabyte	gigabyte	gigabyte	gigabyte
	30	12	1300	31.2	312	624	936
	15	12	648	15.5	155	310	467
	10	12	432	10.1	103.7	207.4	311
	7	12	302	7.26	72.58	145.15	219.74
Low	5	12	216	5.18	51.8	103.6	155.4
	4	12	173	4.15	41.5	83	124.5
	3	12	130	3.12	31.2	62.4	93.6
	2	12	86	2.06	20.6	41.2	61.8
	1	12	43	1.03	10.3	20.6	30.9
	30	15	1620	38.88	388.8	777.6	1166
	15	15	810	19.44	194.4	388.8	583.2
	10	15	540	12.96	129.6	259.2	388.8
	7	15	378	9.07	90.7	181.4	272.1
Normal	5	15	270	6.48	64.8	129.6	194.4
	4	15	216	5.18	51.8	103.6	155.4
	3	15	162	3.89	38.9	77.8	116.7
	2	15	108	2.59	25.9	51.8	77.7
	1	15	54	1.3	13	26	39
	30	20	2160	51.84	518.4	1370	1555
	15	20	1080	25.92	259.2	518.4	777.6
	10	20	720	17.28	182.8	345.6	518.4
	7	20	504	12.01	120.1	240.2	360.3
High	5	20	360	8.64	86.4	172.8	259.2
	4	20	288	6.91	69.1	138.2	207.3
	3	20	216	5.18	51.8	103.6	155.4
	2	20	144	3.46	34.6	69.2	103.8
	1	20	72	1.73	17.3	34.6	51.9

10. WARRANTY AND DISCLAIMER

The manufacturer does not assume any responsibilities related to the sales of the unit and does not endorse any third party to represent the manufacturer in any way. The warranty does not apply to malfunctions of the unit or its parts resulting from any accident, negligence, misuse, or misapplication. Also, the warranty does not include accessories or components that the manufacturer does not supply.

The warranty is valid for one year from the date of purchase. However, the malfunctions listed below are not covered by the warranty even during the warranty period. Repair services for the malfunctions below will be available, but with applicable charges.

If malfunctions occur due to carelessness of the user;

If a user disassembles or replaces any parts of the unit without permission;

If power other than the recommended power is connected to the unit;

If malfunctions occur due to natural disaster (fire, flood, tidal wave, etc.); or,

If consumable parts/items are to be replaced;

The warranty specified herein is only for the units delivered.

Consumers will be charged for examination and repairs after the expiration of the warranty period (one year).

A fee will be assessed for repairs or examinations, except within the scope of the warranty specified herein even during the warranty period.

For out-of-warranty services, please contact your local vendor or service center.

Any work by unauthorized personnel will not be covered by warranty

SURELI CERTIFICATI	E
PRODUCT OF MODEL	

PRODUCT O	R MODEL NAME	Network/Basic +1 Audio
PURCHA	ASE PLACE	
PURCHA	SE DATE	
WARRAN	TY PERIOD	1 YEAR FROM PURCHASE DATE
CUSTOMER	NAME/TEL	/
	ADDRESS	