Thank you for purchasing our product. Please read this User's Manual before using the product. Change without Notice

16 Channel Digital Video Recorder

User's Manual

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This label may appear on the bottom of the unit due to space limitations.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insulated dangerous Voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR



Attention: installation should be performed by qualified service Personnel only in accordance with the National Electrical Code or applicable local codes.



Power Disconnect. Units with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is the ON position. The power cord is the main power disconnect for all unites.



"CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instruction."



During the warranty period (one year), we will repair or replace the DVR free of charge.

Be sure to have the model number, serial number and vendor stick on hard disk for service representative.

About this document

Before installing stand alone DVR, be sure to thoroughly review and follow the instructions in this Users Manual. Pay particular attention to the parts that are marked **NOTICE**.

Also, when connecting with external application, first turn the power OFF and follow manual

instruction for appropriate installation.

Before reading this document

- 1. This document is intended for both the administrator and users of stand alone DVR Model.
- 2. This manual contains information for configuring, managing and using stand alone DVR Model.
- 3. To prevent fire or electrical shock, do not expose the product to heat or moisture
- 4. Be sure to read this manual before using stand alone DVR Model.
- 5. For questions and technical assistance of this product, contact your local dealer.
 - ▶ Strong recommendation on installation of the DVR unit
- 1. Check electricity at the place you want to install the DVR unit is stable and meets our electricity requirements.

Unstable electricity will cause malfunction of the unit or give critical damage to the unit.

2. Several chips on the main board of the DVR unit and hard disk drive inside the unit generate heat, and it must be properly discharged.

Do not put any objects just beside exhaust port(fan) on the left side of the unit and do not close up an opening (fresh air in-take) on the right side of the unit..

Put the DVR unit at well-ventilated place and do not put heat-generating objects on the unit.
 When it is installed inside 19 inch mounting rack together with other devices, please check built-in ventilation fan of the rack is properly running.

Content

Safety Precautions	. 2
About this document	. 3
Before reading this document	. 3
Unite Description of Front Panel	5
Unit Description of Rear Panel	.6
Installation	. 7
Function Setup Login Basic Operation	. 15 15 16
Function Setup Login Basic Operation USB Data Read and Networking	. 15 15 16 39
Function Setup Login Basic Operation USB Data Read and Networking Record Time Table: 80 GB HD	. 15 15 16 39 49
Function Setup Login Basic Operation USB Data Read and Networking Record Time Table: 80 GB HD VGA Description (Optional)	. 15 15 16 39 49

Unit Description of Front Panel



Playback forward / reverse Function item change shuttle.

USB. Data backup or firmware update

PLAY REC. POWER

Function LED light display

Unit Description of Rear Panel



Notice: Reboot DVR after installing any device.

Installation

Procedure

1) Camera Connection

Connect the camera to the CAMERA INPUT on the Rear Panel of the 16 CH DVR.



2) Monitor Connection (Composite Connection Method)

Connect the monitor to the MONITOR OUT on the Rear Panel of the 16 CH DVR.



3) Monitor Connection

Connect S-VIDEO Monitor to MONITOR OUT on the Rear Panel of the 16 CH DVR.



4) Sensor Connection

Connect the Sensor to the SENSOR INPUT/ OUTPUT on the Rear Panel of the system



13,12,11,10,9,8,7,6,5,4,3,2,1 25,24,23,22,21,20,19,18,17,16,15,14

1. ALARM 1	14. ALARM 13
2. ALARM 2	15. ALARM 14
3. ALARM 3	16. ALARM 15
4. ALARM 4	17. ALARM 16
5. ALARM 5	18. X
6. ALARM 6	19. X
7. ALARM 7	20. DGND
8. ALARM 8	21. ALARM COM
9. ALARM 9	22. ALARM NC
10.ALARM 10	23. ALARM NO
11. ALARM 11	24. DGND
12.ALARM 12	25. DGND
13. DGND	

Relay output : COM+NC, COM+NO

◆Alarm input : Short-circuit between Alarm1 ~ 16 and GND is recognized as alarm by default.

Alarm 1 ~ 16 will be corresponding to Camera 1 ~ 16.

NC = Normal Close. NO = Normal Open.

NOTICE: Sensor input is RECOGNIZED as LOW when alarm signal is on a level with GND, and it is recognized as HIGH when alarm signal is FLOATING or 5V. Following is internal circuit.



Thus, there is a danger of damage, when the sensor input goes to a Negative level or voltage higher than 5V.

5) Network Connection DVR connects to LAN

◆To view video image on the computer through internet with DVR view software.

5) HDD connection



- 1. Make sure the HDD is MASTER.
- 2. Make sure the cable connector is correct.
- 3. Please check the HDD panel for Master set up.
- 1. Make sure the HDD is MASTER and SLAVE.
- 2. Make sure the cable connector is correct.
- 3. Please check the HDD panel for Master and Slave set up.

Notice:

-Hard Disk Master and Slave jumper pin must right, otherwise it makes DVR work fault.

Hard Disk testing table:

Brand	Model	Capacity	Notice
Seagate	Barracuda	80 GB	
IBM	DeskStar	80 GB	
WD2000	Caviar	200 GB	
Hitachi	DeskStar	80 GB	
Maxtor	MaxLinell	300 GB	

Picture

Full screen or split screen display

Press button, to display 16 / 9 / 4 quarterly split screen.

Press numeric buttons ^{* I S I} to display the desired camera image in full screen.

1.) FREEZE Mode

1. In live mode press (FREZE) button to freeze image.

2. Press again to cancel freeze mode.

2.) Zoom Mode(Display Enlargement.)

Go to full screen mode with numeric buttons at live or playback mode, then press ZOOM button to display screen Enlargement.

Use button to move position.

3.) Auto Mode

Press AUTO) button to start screen auto sequencing, and press it again to cancel auto mode.

4.) W.MARK. Water Mark mode.

Water Mark on to check if the data has modify.

5.) INFO (System Information). Auto disappear after 2 minutes if no any button operating.

- ** SYSTEM INFORMATION ** 1.IP ADDR: 2.GATEWAY: 3.NETMASK: 4.NET USER: 5.HDD SIZE: 6.HDD USED: 7.STATUS1 8.STATUS2 9.UPTIME 10.VERSION:
- 1. Network IP address
- 2. Network IP gateway
- 3. Network IP netmask
- 4. Network user amount
- 5. Hard disk capacity
- 6. Hard disk used percentage
- 7. First hard disk status
- 8. Video format
- 9. System running time
- 10. System version

6.) BACKUP. Image backup mode.(Image back up must be done on playback mode only.) Locate the playback point of which you want. Press BACKUP, back up menu shows:

CDRW / USB	CDRW	USB
BACKUP MENU	BACKUP MENU	BACKUP MENU
CDR WRITE SPEED		
START BACKUP TO CDR	CDR WRITE SPEED x1,x2,x3	FORMAT USB
FORMAT USB	START BACKUP TO CDR	START BACKUP TO USB
START BACKUP TO USB		

USB:

The BACKUP CAUTION window pop-up. Press ENTER to begin data back up. Capacity of USB device is not limit.

On playback mode, presses BACKUP:

** BACKUP CAUTION ** THE ORIGINAL BACKUP FILE WILL BE KILLED. PRESS [ENTER] TO BACKUP. PRESS [BACKUP] TO CANCEL. Lower-Right corner of the screen:



xxx K (Presently back up progress)

Important:

If DVR cannot detect USB device, please format it to FAT or FAT 32 on PC OS.

When the file is opened from a CF card, only DVR images will appear, but without sounds.

Additional:

During playback, USB device is full or user press BACKUP button screen display a "PAUSE" caption, User takes out the USB device to computer USB slot then save data to hard disk. After re-insert USB device to DVR slot, user press BACKUP again. Press ENTER to continue backup or backup button to cancel.



PS: NetViewer software auto copied to USB device when data backup. See the USB Data Read and Networking pages.

Compatible USB: Transcend 256 MB, 1 GB / A-DATA, 512MB / USB Flash Drive 128 MB / Intelligent Stick 256 MB / SOLOMON 128 MB / ISTEC 1GB.

CD-RW:



xxx K (Presently back up progress)Press BACKUP to stop saving. Or wait for CD is full done.Data only read in Netviewer.

7.) Key Lock function

>On the Live mode, press (lock), Only, numeric, freeze, auto, and zoom buttons could work. Press lock key again to enter the login-in window. Enter admin or user password to unlock. Key lock function only accept password correct log in even re-boot DVR power.

8.) AUDIO function))))

))))	xxxxxxxx	

FRE	ZOOM	ajto	INFO	AUD
\square	\square	\square	\square	\square

Audio playback: AUD (Audio),

)))))))displays on the Upper-left of screen. At that time, audio will playback. Press it again to turn it off.

Notice

Audio playback only on normal(x 1) playback.

9. NETWORK Playing

NETWORK PLAYING PASSWORD : (*****)

ENTER PASSWORD TO TERMINATE

1. When the admin do playback mode on AP (Net Viewer), user can terminate it after into password of DVR. On AP client, admin needs to connect again.

2. When AP on playback mode, DVR is on playback mode also.



1. Playback Mode

1) Press (PLAY) button to begin playback. (System playback the images backward)

2. T-SRH button

1) T-SRH: Playback by time search.

Press T-SRH button to active playback function.



Press direction button UP/DOWN to choose items. MAIN PLAY PAGE 1.MASTER TIME LIST 2.SLAVE TIME LIST 3.MASTER EVENT LIST 4.SLAVE EVENT LIST 5.GOTO DATE: 2004/12/31 6.GOTO TIME: 12:12 7.GOTO PLAY

1) TIME LIST (Playback image by Time-Search): Recorded images list (by hours)



Y / M / D H : M (Beginning of recording time) Y / M / D H : M (End of recording time) Every playback data list displays by an hour.

No page display limit. 10 items display on each page.



Press direction button UP/DOWN to choose items.

 $Press \triangleleft > values$ change button to change to previous / next page.

Notice:

Every playback data list displays by an hour, but if user finds out like:

1. 10:00 ~ 10:12

2. 10:12 ~ 11:00

Reason: 1. Hard disk is full. 2. User change record mode setup.

2) EVENT LIST (Alarm List): Event source- Video loss / Alarm trigger / Motion / Record



10 items display on each page / Total 5000 items display for 500 pages. When event list is out of compass, the total items are less then 5000.

NOY/M/DH:M CH EVENT >Event happens time and list.

CH: Event Channel Display.

>1 CH ~ 16 CH

+10 : Display pages by 10 units / +100 : Display pages by 100 units / +1000 : Display pages by 1000 units.

- Press direction button left and right to change +10 / +100 / +1000

Event type.

>Includes Motion / Alarm / V-Loss / Record / Power On / Event Full / Network (Network total users, include log in and log out.)



Press direction button UP/DOWN to choose items.

Press \triangleleft \triangleright values change button to change page. Press ENTER to start playback.

>Special time search playback:

Go TO DATE : $2 \ 0 \ 0 \ 2 \ 1 \ 2 \ 1 \ 2$

-Choose year / month / day

>Press direction button Left / Right to choose items, press values change button $\triangleleft \triangleright$ to change value. GOTO TIME : 1 2 : 1 2

-Choose hour and minute

>Press direction button Left / Right to choose items, press values change button $\triangleleft \triangleright$ to change value. GOTO PLAY

-Press ENTER button to start playback.

Notice: Playback speed change by $\triangleleft \triangleright$ or shuttle. Speed is x 1, x 2, x 4, x 8, x 16.

Function Setup LOGIN 1) Press button to enter into menu. You could do the system function setup in MENU. 2) Password enter window pop-up: CHECK PASSWORD MENU Default password (Account-Admin) : 44444 Default password (Account-User) : 11111

3) Press numeric $(1 \sim 10)$ button or remote controller $(1 \sim 10)$ to choose password.

PASSWORD (*****)

4) Remote controller function buttons are same as DVR panel function buttons.



3) Press sub-menu item with direction button up/down



or left/right button.

And change the value with \heartsuit values change button or turn inner-shuttle.

4) Press ESC to go back to main / sub menu or exit menu.

Notice:

- 1. ADMIN level can setup all DVR menu functions.
- 2. USER level cannot setup ADVANCED page of DVR main menu function.
- 3. Auto disappear after 4 minutes if no any button operating.

1. HDD INFORMATION

MAIN SETUP PAGE		
1. HDD INFOR	RMATION	
2. DATE-TIME	SETUP	
3. DISPLAY	SETUP	
4. CAMERA	SETUP	
5. BUZZER	SETUP	
6. RELAY	SETUP	
7. SYSTEM	SETUP	
8. ADVANCED	SETUP	
MENU, ESC: EXIT, ENTER: RUN		

SIZE	USED	BRAND
	SIZE	SIZE USED

MENU, ESC: EXIT, \lhd \triangleright :PAGE

- 2 hard disk information display.

Information display: POSITION SIZE USED BRAND

>POSITON: Master / Slave

>SIZE: Hard Disk capacity. xxGB. Maximum display is 999MB

>USED: 00 ~ 100 %. Hard disk overwrites 100 ~ 199 %.

>BRAND: DVR auto detect hard disk brand.

>LAST TIME: The last record time display.

2. DATE-TIME SETUP

MAIN SETUP PAGE		
1. HDD INFO	RMATION	
2. DATE-TIMI	E SETUP	
3. DISPLAY	SETUP	
4. CAMERA	SETUP	
5. BUZZER	SETUP	
6. RELAY	SETUP	
7. SYSTEM	SETUP	
8. ADVANCEI	D SETUP	
MENU, ESC:	EXIT, ENTER: RUN	



1. DATE

2. TIME: > Use direction button up/down choose position, values change button to change date and time values. Do not need to stop hard disk working (Play or record).

3. FORMAT:

YY/MM/DD, MM/DD/YY, DD/MM/YY, YY/ENG/DD, ENG/DD/YY, DD/ENG/YY, YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY, YYYY/ENG/DD, ENG/DD/YYYY, DD/ENG/YYYY. Y=Year. M=Month. D=Day. ENG=Month display in English.

4. DISPLAY AT xx LINE(S)

-Date and Time position on screen xx line(s). $00 \sim 23$.

-. Day and time change



Press direction button up/down/left/right to choose items or move date-time position.

Press \triangleleft \triangleright values change button to change values.

3. DISPLAY SETUP

MAIN SETUP PAGE		
1. HDD INFORMATION	DISPLAY SETUP PAGE	
2. DATE-TIME SETUP	1. DATE-TIME	ON
3. DISPLAY SETUP	2. CAMERA TITLE	ON
4. CAMERA SETUP	3. PB DATE-TIME	ON
5. BUZZER SETUP	4. PB CAMERA TITLE	ON
6. RELAY SETUP	5. PB DUMMY CAMERA	ON
7. SYSTEM SETUP	6. DVR STATUS	ON
8. ADVANCED SETUP	7. BORDER COLOR	WHITE
MENU, ESC: EXIT, ENTER: RUN	MENU, ESC:EXIT, 🔍 🗅	:MODIFY

- 1. DATE-TIME: Date and Time caption display mode on or off setup. >ON / OFF
- 2. CAMERA TITLE: Camera Title caption display mode on or off setup. >ON / OFF
- 3. PB DATE-TIME: Play back date and time caption display mode on or off setup. >ON / OFF
- PB CAMERA TITLE: Play back camera title caption display mode on or off setup.
 >ON / OFF
- PB DUMMY CAMERA: To clear dummy image if channel input not up to 16.
 >ON / OFF
- DVR STATUS: DVR system, record, playback, audio caption display mode on or off setup.
 >ON / OFF
- 7. BORDER COLOR: Border color WHITE / DARK / BLACK / GRAY.



Press direction button up/down to choose the desired item.

Press \triangleleft \triangleright values change button to change values.

4. CAMERA SETUP

MAIN SETUP PAGE		
1. HDD INFO	RMATION	
2. DATE-TIME	ESETUP	
3. DISPLAY	SETUP	
4. CAMERA	SETUP	
5. BUZZER	SETUP	
6. RELAY	SETUP	
7. SYSTEM	SETUP	
8. ADVANCE) SETUP	
MENU, ESC:	EXIT, ENTER: RUN	

(1.) COLOR SETUP

CAMERA SETUP

- 1. COLOR SETUP
- 2. TITLE SETUP
- 3. SCREEN POSITION SETUP
- 4. V-LOSS DISPLAY SETUP
- 5. VIDEO MASK SETUP

- CAMERA SETUP PAGE
 1. COLOR SETUP
 2. TITLE SETUP
 3. SCREEN POSITION SETUP
 4. V-LOSS DISPLAY SETUP
 5. VIDEO MASK SETUP
 MENU, ESC: EXIT, ENTER: RUN
 COLOR SETUP PAGE
 ** CHANNEL NUMBER 01
 1. BRIGHTNESS 00
 2. CONTRAST 00
 - 3. SATURATION 00
 - 4. HUE 00
 - 5. GAIN 00
 - >>DEFAULT RESET<<

COLOR SETUP : Adjust Camera Image. Only on live mode adjustable.

CHANNEL NUMBER	: Select camera 01 ~ 16	
BRIGHTNESS	: Adjust screen brightness	(-30~ +30)
CONTRAST	: Adjust color contrast	(-20~ +42)
SATURATION	: Adjust color saturation	(-34~ +22)
HUE	: Adjust color hue	(-24~ +24)
GAIN	: Adjust image signal level	(-32~ +32)

>>DEFAULT RESET<< : Press ENTER button to reset DVR values.



Press direction button up/down to choose items.

Press \triangleleft \triangleright values change button to change values.

>Right adjustment of each element in COLOR setup will increase picture quarterly displayed. We recommend you to adjust each element of COLOR SETUP for cameras and monitor to be connected to the DVR unit.

(2.) TITLE SETUP: Input TITLE of each camera. 9 characters can be input.

CAMERA SETUP	
1. COLOR SETUP	
2. TITLE SETUP	
3. SCREEN POSITION SETUP	
4. V-LOSS DISPLAY SETUP	
5. VIDEO MASK SETUP	

TITLE SETUP PAGE			
CH 01 (01)	CH 09 (09)
CH 02 (02)	CH 10 (10)
CH 03 (03)	CH 11 (11)
CH 04 (04)	CH 12 (12)
CH 05 (05)	CH 13 (13)
CH 06 (06)	CH 14 (14)
CH 07 (07)	CH 15 (15)
CH 08 (08)	CH 16 (16)
MENU, ESC: EXIT: \triangleleft >: MODIFY			



Press direction button up/down/left/right to choose items and position.

Press \triangleleft \triangleright values change button to change values.

Characters choose:

Space:

Numeric: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9

Capital letter: A / B / C / D / E / F / G / H / I / J / K / L / M / N / O / P / Q / R / S / T / U / V / W / X / Y / Z

(3.) SCREEN POSITION SETUP





Press direction buttons up/down/left/right to move screen position.

- 2. Press ENTER button for default.
- 3. Press ESC button to quit.

(4.) V-LOSS DISPLAY SETUP

CAMERA SETUP

- 1. COLOR SETUP
- 2. TITLE SETUP
- 3. SCREEN POSITION SETUP
- 4. V-LOSS DISPLAY SETUP
- 5. VIDEO MASK SETUP

VLOSS SETUP PAGE		
**V-LOSS FUN	NCTION:	
CH 01 : ON (CH 09 : ON	
CH 02 : ON	CH 10 : ON	
CH 03 : ON	CH 11 : ON	
CH 04 : ON	CH 12 : ON	
CH 05 : ON	CH 13 : ON	
CH 06 : ON (CH 14 : ON	
CH 07 : ON	CH 15 : ON	
CH 08 : ON	CH 16 : ON	
MENU, ESC: EXIT: <⊂ >: MODIFY		

** V-LOSS FUNCTION: ON / OFF

 CH 01 : ON / OFF
 CH 09 : ON / OFF

 CH 02 : ON / OFF
 CH 10 : ON / OFF

 CH 03 : ON / OFF
 CH 11 : ON / OFF

 CH 04 : ON / OFF
 CH 12 : ON / OFF

 CH 05 : ON / OFF
 CH 13 : ON / OFF

 CH 06 : ON / OFF
 CH 14 : ON / OFF

 CH 07 : ON / OFF
 CH 15 : ON / OFF

 CH 08 : ON / OFF
 CH 16 : ON / OFF

PS. If choose on, X icon displays beside camera title.



Press direction buttons up/down/left/right to choose items.

 \triangleleft \triangleright Press values change button to change values.

(5.) VIDEO MASK SETUP

CAMERA SETUP
1. COLOR SETUP
2. TITLE SETUP
3. SCREEN POSITION SETUP
4. V-LOSS DISPLAY SETUP
5. VIDEO MASK SETUP

VIDEO MASK SETUP PAGE			
**VIDEO	MASK FUN	ICTION:	
CH 01	CH 09		
CH 02	CH 10		
CH 03	CH 11		
CH 04	CH 12		
CH 05	CH 13		
CH 06	CH 14		
CH 07	CH 15		
CH 08	CH 16		
MENU, ESC: EXIT: <			

**VIDEO MASK FUNCTION: ON / OFF CH 01 : ON / OFF CH 09 : ON / OFF CH 02 : ON / OFF CH 10 : ON / OFF CH 03 : ON / OFF CH 11 : ON / OFF CH 04 : ON / OFF CH 12 : ON / OFF CH 05 : ON / OFF CH 13 : ON / OFF CH 06 : ON / OFF CH 14 : ON / OFF CH 07 : ON / OFF CH 15 : ON / OFF CH 08 : ON / OFF CH 16 : ON / OFF

MASK means the channel would not display on the live screen, but still can set it on recording.



Press direction buttons up/down/left/right to choose items.

 $\lhd \triangleright$

5. BUZZER SETUP

MAIN SETUP PAGE		
1. HDD INFO	RMATION	
2. DATE-TIME	ESETUP	
3. DISPLAY	SETUP	
4. CAMERA	SETUP	
5. BUZZER	SETUP	
6. RELAY	SETUP	
7. SYSTEM	SETUP	
8. ADVANCE) SETUP	
MENU, ESC:	EXIT, ENTER: RUN	

BUZZER SETUP PAGE			
**BUZZEF	R FUNCTION	ON	
BUTTON	BUZZER	ON	
ALARM	BUZZER	ON	
MOTION	BUZZER	ON	
V-LOSS	BUZZER	ON	
HDD-FUL	L BUZZER	ON	
CRASH	BUZZER	ON	
MENU, ESC: EXIT: \triangleleft >: MODIFY			

- **BUZZER FUNCTION: All buzzer function
 - >ON / OFF
- 1. BUTTON BUZZER?
 - > ON / OFF
- 2. ALARM BUZZER?
 - > ON / OFF
- 3. MOTION BUZZER?
 - > ON / OFF
- 4. VLOSS BUZZER?

> ON / OFF

5. HDD-FULL?

> ON / OFF (Buzzer on if hard disk record only once(Record setup→ HDD FULL→STOP REC.)

6. CRASH?

> ON / OFF (Buzzer on if DVR system or hard disk crash.)



Press direction buttons up/down to BUZZER SETUP items.

 \triangleleft \triangleright Press values change button to change values.

6. RELAY SETUP

MAIN SETUP PAGE		
1. HDD INFO	RMATION	
2. DATE-TIME	E SETUP	
3. DISPLAY	SETUP	
4. CAMERA	SETUP	
5. BUZZER	SETUP	
6. RELAY	SETUP	
7. SYSTEM	SETUP	
8. ADVANCEI	O SETUP	
MENU, ESC: EXIT, ENTER: RUN		

RELAY SETUP PAGE			
**RELAY FUN	CTION: ON	I	
1. ALARM	RELAY:	ON	
2. MOTION	RELAY:	ON	
3. V-LOSS	RELAY:	ON	
4. HDD-FULL	RELAY:	ON	
5. CRASH	RELAY:	ON	

**RELAY FUNCTION: ON

1. ALARM	RELAY:	ON
2. MOTION	RELAY:	ON
3. VLOSS	RELAY:	ON
4. HDD FULL	RELAY:	ON (Relay on if hard disk record only once.)
		Record setup → HDD FULL → STOP REC.
5. CRASH	RELAY:	ON (Relay on if DVR system or hard disk crash.)



Press direction buttons up/down to each item.

 $\triangleleft \triangleright$

7. SYSTEM SETUP

MAIN SETUP PAGE			
1. HDD INFO	RMATION		
2. DATE-TIME	E SETUP		
3. DISPLAY	SETUP		
4. CAMERA	SETUP		
5. BUZZER	SETUP		
6. RELAY SETUP			
7. SYSTEM SETUP			
8. ADVANCED SETUP			
MENU, ESC:	MENU, ESC: EXIT, ENTER: RUN		

SYSTEM SETUP
1. DWELL INTERVAL
2. LANGUAGE
3. VIDEO INPUT
4. RS-485 ID
5. RS-485 PROTOCOL
6. RS-485 BAUD RATE
UPTIME: xx HRS
MENU, ESC: EXIT: <

SYSTEM SETUP

- 1. DWELL INTERVAL:
 - 0 ~ 999SEC. Full channel and call monitor auto sequence time.
- 2. LANGUAGE:
 - ENGLISH / CHINESE / JAPANESE / FRENCH / RUSSIAN / POLISH / ITALIAN / SPANISH
 - After change language, user needs to exit menu. Language would change next time back to menu.
- 3. VIDEO INPUT: NTSC / PAL system detection.
 - AUTO / NTSC / PAL
 - User needs to re power on after change.
- 4. RS-485 ID:
 - 01 ~ 16
- 5. RS-485 PROTOCOL

- KEYB / LILIN / PELCO-P / PELCO-D / NICECAM / DENTEC-D / DENTEC-P

- 6. RS-485 BAUD RATE
 - 1200 / 2400 / 4800 / 9600

-UPTIME: xx HRS. This means the total system working time after DVR first power on.

RS-485 ID and protocol is the command for system control keyboard. If user has no keyboard to control then does not have to care.



Press direction buttons up/down to choose items.

 $\triangleleft \triangleright$

8. ADVANCED SETUP



1. Alarm function: ON / OFF. Alarm function on or off depends on alarm device includes in DVR system.

2. Alarm duration: 0 ~ 9999. Alarm buzzer and record duration time.

ALARM RELAY SETUP

>ALARM 01 ~ ALARM 16: ON / OFF Even choose on, but RELAY SETUP→Alarm relay or relay function off, this function is still closed.

ALARM POLARITY SETUP

>ALARM 01 ~ ALARM 16: N.O. / N.C. / OFF



Press direction buttons up/down to choose items.

 $\triangleleft \triangleright$

2. MOTION SETUP

ADVANCED SETUP PAGE

- 1. ALARM SETUP 2. MOTION SETUP
- 3. RECORD SETUP
- 4. PASSWORD SETUP
- 5. NETWORK SETUP
- 6. HDD FORMAT
- 7. FACTORY DEFAULT
- 8. SOFTWARE UPDATE

MOTION SETUP

**MOTION FUNCTION (For all channels)

-ON / OFF

****MOTION DURATION**

-0 ~ 9999. Motion buzzer and record duration time.

**CHANNEL NUMBER

-CH 01 ~ 16

- 1. SENSITIVITY Adjusts motion Detection Sensitivity.
 - -1 ~ 32 (low →high)
- 2. VELOCITY Adjusts motion object slow /fast speed detection
 - $-1 \sim 10$ (slow speed \rightarrow fast speed)
- 3. ACTIVATION (For each channel)

-ON / OFF. The function only for channel motion detect active, not for motion record per each.

4. RELAY

-ON / OFF

Even choose on, but RELAY SETUP→Motion relay or relay function off, this function is still closed.

5. >MOTION AREA SETUP<



Press direction buttons up/down to choose items.



> MOTION AREA SETUP <

All area detect with factory default. Press ENTER button to change mode and then increase or reduce.

For example: Clear lattices	\longleftrightarrow	Press value change button to reduce.	\triangleleft
Add lattices	\longleftrightarrow	Press value change button to reduce.	\triangleright
Press	crease all a	area, press \lhd to reduce all area.	
Icon: 💌		~	

Press Up / Down / Left / Right direction key to move, press \triangleright to increase lattices; press \triangleleft to reduce lattices.

Icon: +

Press Up / Down / Left / Right direction key to move and increase area.

Icon: X

Press Up / Down / Left / Right direction key to move and reduce area.

3. RECORD SETUP

	. E	
ADVANCED SETUP PAGE		RECORD SETUP
1. ALARM SETUP		1. HDD FULL
2. MOTION SETUP		2. RECORD SPEED
3. RECORD SETUP		3. RECORD MODE
4. PASSWORD SETUP		4. RECORD AUDIO
5. NETWORK SETUP		5. QUALITY
6. HDD FORMAT		6. SCHEDULE SETUP
7. FACTORY DEFAULT		7. CHANNEL SETUP
8. SOFTWARE UPDATE		MENU, ESC: EXIT: <

RECORD SETUP

HDD FULL: When hard disk is full, DVR next step is kept overwrite record or stop record?
 -OVERWRITE / STOP REC

Notice: STOP REC : One hard disk record full, stop record. Two hard disk, both of them record full, stop record.

Record process	OVERWRITE	STOP REC
M(99%), S(0%) → M(100%), S(0%)	To second and record	To second and record
M(99%), S(100%) → M(100%), S(100%)	To second and record	To second and record
M(0%), S(99%) → M(0%), S(100%)	To first and record	To first and record
M(100%), S(99%) → M(100%), S(100%)	To first and record	Stop record

Notice:

When hard disk is full, system buzzer on, and then presses ENTER to stop. Next to press REC, over write message window popup.

"** OVERWRITE CAUTION **" "THE HDD ARE BOTH FULL," "RECORDING WILL DELETE"

"THE OLD IMAGE."

"PRESS [ENTER] TO OVERWRITE."

Press ENTER to continue record. Over write from the first data area.

Press MENU to exit.

- 2) RECORD SPEED: Record FPS setup
 -1/30(1/30), 1/15(1/15), 1/10(1/10), 1/5 (1/5), 1/3 (1/3), 1/2 (1/2), 1(1), 2(2), 3(3.13), 5(5), 10 (8.33), 15(12.5), 30(25), 60(50), 120(100). NTSC / (PAL)
- 3) RECORD MODE: Record mode setup.
 -ALWAYS / SCHEDULE / EVENT / EVENT ON SCHEDULE / EVENT + SCHEDULE
- 4) RECORD AUDIO: Audio record setup
 -ON / OFF. (Suggest not fewer than 5 fps.)
- 5) QUALITY: Record image quality setup - SUPER / HIGH / FINE / NORMAL / LOW
- 6) SCHEDULE SETUP



Press direction buttons up/down to choose item.

 $\triangleleft \triangleright$

Press values change button to change values.

Additional:

2. RECORD SPEED. 1/30(1/30), 1/15(1/15), 1/10(1/10), 1/5 (1/5), 1/3 (1/3), 1/2 (1/2), 1(1), 2(2), 3(3.13), 5(5), 10 (8.33), 15(12.5), 30(25), 60(50), 120(100).

-120 is the maximum fps. Full screen playback with 120 frames per each.

Split screen playback with 60 frames.

3. RECORD MODE. ALWAYS / SCHEDULE / EVENT / EVENT ON SCHEDULE / EVENT + SCHEDULE. -Always: 24 hours recording.

-Schedule: Date and time schedule recording mode.

-Event: Alarm / Motion / V-Loss event mode recording. (Whatever which channel event, all channel record.) -Event on schedule: Event record only on schedule time.

-Event + Schedule: Except event on schedule recording, it would still do record if event happens not on schedule time.

Notice:

After record mode setup, user needs to press REC button to start. Set on Always mode, DVR do record if user presses REC. Other record mode would ready on DVR idle status.

4. RECORD AUDIO: ON / OFF.

-Choose on, DVR would do audio recording.

>SCHEDULE SETUP<

RECORD SETUP

- 1. HDD FULL
- 2. RECORD SPEED
- 3. RECORD MODE
- 4. RECORD AUDIO
- 5. QUALITY
- 6. SCHEDULE SETUP
- 7. CHANNEL SETUP



Press direction buttons up/down to SCHEDULE items.

 \triangleleft \triangleright Press values change button to change values.

Factory default is everyday all schedules time on recording.

SCHEDULE SETUP

CURSOR STEP

30MIN / 6MIN 🗁





Press direction buttons up/down/left/right to see date and time difference.



Press values change left/right button to change 30MIN or 6 MIN

++ / - - : Increase / Reduce. Every day record with factory default.

- On >>, use up/down button to choose date, press < >button to change on
- + + or -. After, use direction left / right button to start increase or reduce time area. Mode function button
- + + increase
- - reduce

SCHEDULE SETUP 3	omin [\gg
CURSOR STEP		
SUN 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 2	21:00 22:00 2	23:00
00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30 20:30	0 21:30 22:34	0 23:30
MON	21:00 22:00	23:00
00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30 20:30) 21:30 22:30) 23:30
TUE	21:00 22:00	23:00
00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30 20:30) 21:30 22:30) 23:30
WED 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 2 00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30 20:30	21:00 22:00	23:00 0 23:30
THU		
00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 2	21:00 22:00	23:00
00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30 20:30) 21:30 22:3() 23:30
FRI 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 20:00 20:00 20:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10	21:00 22:00	23:00
00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30 20:30) 21:30 22:30) 23:30
SAT	21:00 22:00	23:00
w.au ur.au uz.au ua.au ua.au ua.au ua.au ur.au ua.au ua.au ua.au ru.au ru.au ru.au ra.au ra.au ra.au ra.au r/.au 18:30 19:30 20:30	J Z 1:30 22:30	J ∠3:30

For example: TUE ~ SAT, all day schedule time recording, but SUN 07:00 ~ 22:00 and MON 01:30 ~ 11:30 do schedule recording. User can press ENTER to see the schedule time area difference.

7) RECORD CHANNEL SETUP PAGE

RECORD SETUP
1. HDD FULL
2. RECORD SPEED
3. RECORD MODE
4. RECORD AUDIO
5. QUALITY
6. SCHEDULE SETUP
7. CHANNEL SETUP

RECO	RD CHANN	NEL SETUP PAGE
CH 01	CH 09	
CH 02	CH 10	
CH 03	CH 11	
CH 04	CH 12	
CH 05	CH 13	
CH 06	CH 14	
CH 07	CH 15	
CH 08	CH 16	
MENU, E	ESC: EXIT:	$\triangleleft \triangleright : MODIFY$

CH 01 : ON / OFF	CH 09 : ON / OFF
CH 02 : ON / OFF	CH 10 : ON / OFF
CH 03 : ON / OFF	CH 11 : ON / OFF
CH 04 : ON / OFF	CH 12 : ON / OFF
CH 05 : ON / OFF	CH 13 : ON / OFF
CH 06 : ON / OFF	CH 14 : ON / OFF
CH 07 : ON / OFF	CH 15 : ON / OFF
CH 08 : ON / OFF	CH 16 : ON / OFF

PS. Choose off if no video input channel or which channel would not do record. According to channel record, record time would different.



Press direction buttons up/down to choose item.

 \triangleleft \triangleright Press values change button to change values.

4. PASSWORD SETUP



PASSWORD SETUP PAGE 1. LEVEL:()

- 2. ADMIN:()
- 3. USER :()

1) LEVEL (Log In level ID type setup) >NONE / ADMIN / USER



Press direction buttons up/down/left/right to Choose items position.

-ADMIN

-USER

 \triangleleft \triangleright Press values change button to change values.

Password always 5 character input, cannot < 5 characters

-NONE, user does not need to insert password before enter in MENU.

ADMIN password
 >44444 (Factory Default)

Notice:

USER password
 >11111 (Factory Default)

Press direction buttons up/down/left/right to choose items position.

Press numeric (1 ~ 10)button or remote controller (1 ~ 10)to choose

Notice:

- 1. ADMIN level can setup all DVR menu functions.
- 2. USER level cannot setup ADVANCED page of DVR main menu function.
- 3. Auto disappear after 4 minutes if no any manual operate.

5. NETWORK SETUP

ADVANCED SETUP PAGE
1. ALARM SETUP
2. MOTION SETUP
3. RECORD SETUP
4. PASSWORD SETUP
5. NETWORK SETUP
6. HDD FORMAT
7. FACTORY DEFAULT
8. SOFTWARE UPDATE

- 1. SPEED : >512K / 512K / 256K / 128K / 64K
- > Upload speed. Choose the close speed by applied.
- 2. DVR NAME: [x 15 space]
- 3. NET TYPE: STATIC / DHCP / PPPOE / OFF
- 4. STATIC IP SETUP
- 5. PPPOE ID SETUP
- 6. DNS/DDNS SETUP
- 7. SERVER PORT SETUP





Press direction buttons up/down/left/right to TCP-IP items position.

 $\triangleleft \triangleright$

Press values change button to change values.

-MAC ADDR

XX.XX.XX. Machine number, user cannot change.

- 2. DVR NAME: see DDNS apply.
- 3. NET TYPE:
- > choose network connecting type as user.
- 4. STATIC IP SETUP:
- > Depends on LAN or WAN. Input value witch get from network technician or ISP company.
- > Advice user apply network speed Upload 512K / Download 512K, to avoid image data too big influence the remote quality. The network traffic jam always make data transfer slow, it is normal.
- > Do not via IP sharing device or firewall.

STATIC IP SETUP

- 1. IP ADDR: 192.168.192.250
- 2. GATEWAY: 192.168.192.254
- 3. NETMASK: 255.255.255.000
- 4. INTERNAL MAPPING: OFF

Internal Mapping: LAN IP corresponding

5. PPPOE ID SETUP

If users apply the dynamic IP from ISP, then should input ID and password that from ISP information list. And then go to set DNS/DDNS SETUP

For example:

Address name is <u>123456@hinet.net.tw</u> Password is 654321



7. SERVER PORT SETUP



6. DNS/DDNS SETUP

Whatever user apply a free or pay DDNS, user needs to input every thing below. DDNS apply: User can get a free hostname or pay from website below.

- 1. http://www.3322.net/ (China)
- 2. http://www.changeip.org/
- 3. http://www.dyndns.com/
- 4. http://www.no-ip.com/
- 5. http://www.dhs.org/
- 6. http://www.dtdns.com/index.cfm?fuseaction=info.hosts

For example:

Go to: http://www.dtdns.com/index.cfm?fuseaction=info.hosts



Click sign up to create an account.

Fill your information to sign up paper.

Desireu Osemar	ne: Max	
Desired Passwo	rd: •••••	
Your Full Name:	Max Chen	
Company:	D∨R	
E-mail Address:	maxchen@hxxxx.com.tw	
Address:		
City:	Taiwan	
State or Provin	ce: Foreign 💌	
Zip/Postal Code	:: 03	
Country:	Taiwan (China Rep of) 🛛 💌	
Phone Number:	0921xxxxxx	1
Confirm Passwo	rd: •••••	
	marchan@byyyyy com tw	

After, go to email account to get activate ID and code.

Hello Max Chen,	
DtDNS has received a request to create a now. Otherwise, welcome to DtDNS! If	new account, and this e-mail address was entered with it. We apologize if you have a question, comment, problem or suggestion, please feel free to
When you signed up for our service, you	a entered the following information:
Username : Mi id	
E-mail address : maxchen@h Llon	ı.tw
Activation Code : dx 4	\searrow
The above code was assigned to your acc	ount when you created it.
To activate your account, you must visit	the url below within 48 hours.
Accounts not activated within 48 hours a	re removed
	Click here to active
https://www.dtdns.com/index.cfm?fuseac	tion=account.activate

ow tha	at you have signed up with DtDNS and we have sent you a verification message
a e-m	ail, you must activate your account. The message we sent you contained an
ctivati	on code, which you will need to enter below.
it has	; been more than 48 hours since you signed up, you will need to <u>sign up</u> again
nd get	; a new activation code.
	Please enter your activation information: Username: Activation Code: Lose or forget your code? Activate Account >>
	Please read our Privacy Statement and Terms of Service.

Click hostnames

	Home A	bout Us	Pricing	Update Clients	FAQ	System News	WHOIS	Support
Member Home	My Servic	es						
Domains Hostnames Update Groups	Domains Hostnames		Use this service to have DtDNS host DNS for your full domains. All DNS hosting for full domains includes dynamic update capability.					
Account Settings Service Credits Log Out			Get a subdomain on one of our own domain names. Great for online gaming, telnet BBSes, or connecting to your home computer while you're away.					
Sales/Support: 1-877-760-6337	Update Gro	oups	Grou upd	up your hostnam ates with autom	nes and lated <mark>IF</mark>	/or domains for <u>· Update Client</u>	r easier <u>s</u> .	
	My Accou	nt						
	Account Se	ettings	Be s to-c	sure to keep you date.	ır perso	nal account in	formation	up-
	Service Cr	edits	Purc on s	chase service cr services.	edits in	bulk to get dis	scount pri	cing
	Log Out		Exit	the DtDNS man	agemer	nt area and end	d this sess	sion.

Type Hostname and choose a domain name, and then click Add Hostname.

EX: Hostname = Myhostname, Domain = 4irc.com

	Home AL	out Us	Pricing	Update Client	S FAQ	System News	WHOIS	Support
lember Home	Hostname	Man	ager					
omains Iostnames Ipdate Groups	Your account is \$5.00 fee to up To manage exis	limited 1 grade yc ting host	to five fre our accour tnames, si	e hostname: It if you nee mnly click tl	s. Please (ed more ho he entry ir	consider paying ostnames. <u>Tell</u> o the list below	g the one-ti <u>me more</u> . v.	me
account Settings Service Credits	Hostname	ang nos	Domair	mpry click d	IP Addre	ess Tu	ine	
og Out	Digital4CHDV	<u>'R</u>	gotgeek	s.com	203.70.2	47.28 Ac	tive Dynami	c
ales/Support: -877-760-6337	Myhostname		.scieron .3d-gam .4irc.con	com 🔽 🚺 e.com	Add Host	iname >>		
powered by DIONS		O	.bbsinde chatnoo .darktecl .deaftone	x.com k.com <u>v S</u> n.org <u>iro</u> e.com	<u>tatement</u> al 5 by <u>Sceirol</u> n - Sarasot	nd <u>Terms of Serv</u> n Interactive, Ind a Web Design	<mark>vice</mark> . <u></u>	

After click Add Hostname>>

DODNS Your Complete DNS Solution							
	Home About	Us Pricing	Update Clients	FAQ	System News	WHOIS	Support
Member Home	Hostname M	lanager					
Domains Hostnames Update Groups	Your account is lim \$5.00 fee to upgra To manage existing	ited to five fr de your acco) hostnames,	ee hostnames. unt if you need simply click the	Please c more hc entry ir	consider payin ostnames. <u>Tell</u> n the list belov	g the one- <u>me more</u> . v.	-time
Account Settings Service Credits Log Out	Hostname	Doma	in I	P Addre	ess Ty	ире	
Sales/Support: 1-877-760-6337	Digital4CHDVR Myhostname	gotgee	eks.com 2 om 🔽 🚺	203.70.2 [,] Add Host	47.28 Ac name >> 🙀	tive Dyna:	mic
powered by DIDNS		Please rea Copyrig Pov	d our <u>Privacy Sta</u> ht © 1999-2005 b vered by Sceiron ·	tement ar by <u>Sceiror</u> - Sarasota	nd <u>Terms of Sern</u> 1 Interactive, Inc a Web Design	vice. c.	

Data confirm done, then you can go to DVR advanced setup \rightarrow Network setup now.

	Home About	Us Pricing U	pdate Clients	FAQ	System News	WHOIS	Supp
Member Home	Hostname M	lanager					
Domains	Your account is lim	ited to five free	hostnames. if you need	Please c more bo	onsider payir stnames Tel	ng the one-	time
Hostnames Update Groups	\$5.00 ree to upgra	ue your account	n you neeu		striames, <u>Ter</u>	<u>r me more</u> .	
	– To manage existing	hostnames, 🖓	ply click the	entry in	the list belo	W.	
Account Settings Service Credits	Your new hostnar	ne has been ac	ded to the	system			
Log Out							
Log Out	Hostname	Domain	I	P Addre	ss T	уре	
Log Out Sales/Support:	Hostname <u>- Digital/ICHDVR</u>	Domain gotgeeks	I com 2	P Addre 03.70.24	ss T 17.28 A	<mark>ype</mark> ctive Dynai	mic
Log Out Sales/Support: 1-877-760-6337	Hostname <u>Digital4CHDVR</u> <u>Myhostname</u>	Domain gotgeeks 4irc.com	I com 2 2	P Addre 03.70.24 03.70.24	ss T 17.28 A 17.28 A	ype ctive Dynai ctive Dynai	mic mic
Log Out Sales/Support: 1-877-760-6337	Hostname Digital4CHDVR Myhostname	Domain gotgeeks 4irc.com .darktech.	I com 2 2 org V	P Addre 03.70.24 03.70.24 Add Hosti	ss T 17.28 A 17.28 A 17.28 A	ype ctive Dynai ctive Dynai	mic mic
Log Out Sales/Support: 1-877-760-6337	Hostname <u>Digital4CHDVR</u> <u>Myhostname</u>	Domain gotgeeks 4irc.com .darktech.	I com 2 2 org v	P Addre 03.70.24 03.70.24 Add Hosti	ss T 17.28 A 17.28 A 17.28 A name >>	ype ctive Dynai ctive Dynai	mic mic
Log Out Sales/Support: 1-877-760-6337	Hostname	Domain gotgeeks. 4irc.com .darktech.	I com 2 2 org V	P Addre 03.70.24 03.70.24 Add Hosti	ss T 17.28 A 17.28 A 17.28 A 1ame >>	ype ctive Dynai ctive Dynai	mic mic



6. DNS/DDNS SETUP



Important:

LOGIN ID: This is your DTDNS apply login user name! Not Hostname! PASSWORD: This is your DTDNS apply login password, not Activation Code!

6. HDD FORMAT

ADVANCED SETUP PAGE

- 1. ALARM SETUP
- 2. MOTION SETUP
- RECORD SETUP
 PASSWORD SETUP
- 5. NETWORK SETUP

6. HDD FORMAT

- 7. FACTORY DEFAULT
- 8. SOFTWARE UPDATE



Press direction buttons up/down to HDD FORMAT items position. Press ENTER to format all HDD.

Caution: User can format HDD only when all HDD stop record or playback.

→ HDD FORMAT CAUTION!! :

** HDD FORMAT CAUTION!!** ALL DATA IN HDD WILL BE DESTROYED!!

PRESS [ENTER] TO FORMAT. PRESS [ESC] TO CANCEL.



ESC

Press ENTER button to format hard disk.

Press ESC button to cancel hard disk format

Notice:

New hard disk detect: When DVR power, system would detect new hard disk install. If the hard disk is in different format, then the message popup. User needs to press ENTER to format, if press MENU, and then this hard disk would not be detected.

** NEW HDD CAUTION **" "THE NEW HDD IS DETECTED." "FORMAT THE NEW HDD??" "PRESS [ENTER] TO FORMAT." "PRESS [MENU] TO CANCEL."



MENU

Press FORMAT to format. Press MENU to exit.

7. FACTORY DEFAULT

ADVANCED SETUP PAGE

- 1. ALARM SETUP
- 2. MOTION SETUP
- 3. RECORD SETUP
- 4. PASSWORD SETUP
- 5. NETWORK SETUP
- 6. HDD FORMAT

8. SOFTWARE UPDATE

- 7. FACTORY DEFAULT
- 8. SOFTWARE UPDATE



Press direction buttons up/down to FACTORY DEFAULT items position. Press ENTER to restore.



PRESS [ENTER] TO RESTORE. PRESS [ESC] TO CANCEL.

ADVANCED SETUP PAGE

1. ALARM SETUP

2. MOTION SETUP

RECORD SETUP
 PASSWORD SETUP

5. NETWORK SETUP

7. FACTORY DEFAULT

6. HDD FORMAT



Press ENTER button to restore.



Press ESC button to cancel.

SOFTWARE UPDATE UPDATE METHOD:

START UPDATE

8. SOFTWARE UPDATE

UPDATE METHOD: USB / HTTP / UNIX

USB: Copy firmware to USB device, and then plug in DVR USB interface. Choose START UPDATE and then press ENTER to start. Or save the update version to USB device, DVR system would do data update automatically. USB ERROR displays if no any USB device plug.

NETWORK: Press START UPDATE to link. 80 Port must open in your network server.

UNIX: For R&D testing.

USB Data Read and Networking

- 1. Windows 2000 / XP, select small character display.
- 2. Resolution 1024 x 768.
- 3. RAM up to 128 MB, system up to PIII-800.
- 4. Double click SETUP.EXE of CD, and then start to install.
- 5. User can go to company server to download AP software.



6. Browse install path and then click Next.

🔂 Setup - Net¥iewer	
Select Destination Location Where should NetViewer be installed?	
Setup will install NetViewer into the followin	g folder. different folder, click Browse
C:\Program Files\NetViewer	Browse
At least 7.0 MB of free disk space is required.	
	ack Next > Cancel

7. Advice resolution 1024 x 768. According computer equipment, please choose suitable resolution

🕞 Setup - Net¥iewer	
Select Components Which components should be installed?	
Select the components you want to install; cle install. Click Next when you are ready to conti	ear the components you do not want to nue.
[WinXP] 1024 x 768	
	< <u>B</u> ack <u>N</u> ext > Cancel

8. Select Start Menu Folder, and then click Next.

Setup - Net∀iewer	
Select Start Menu Folder Where should Setup place the	program's shortcuts?
Setup will create the	program's shortcuts in the following Start Menu folder.
To continue, click Next. If you	would like to select a different folder, click Browse.
NetViewer	Browse

- 9. Click create a desktop icon or not, select DVR type, and then click Next.
 - 4 CH and 16 CH DVR Net viewer is suitable. Only some split screen can not display.

🖥 Setup - Net¥iewer	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform w then click Next.	hile installing NetViewer,
Additional icons:	
Create a desktop icon	
Select your DVR Type :	
⊙ 4 CH	
O 16 CH	
< <u>B</u> ack	Next > Cancel

10. Click INSTALL to start install.

eady to Install Setup is now ready to begin installi	ng NetViewer on your computer.
Click Install to continue with the ins change any settings.	stallation, or click Back if you want to review or
Destination location: C:\Program Files\NetViewer	
l Setup type: (WinXP) 1024 x 768	
Selected components: XP1024x768	
Start Menu folder: NetViewer	
Additional tasks:	
<u><</u>	

11. Click Launch NetViewer and click Finish to done.





12. Click Setting.

g Network Viewer V2.U amNo D1	Cam No 02		
			NETWORK VIEWER
	Network Viewer Settings		CFL o gin
V- 40	Network Name: Load IP IP Address: DDNS Host Name:	Video © NISC C PAL Frame/Sec 5	© Setting © DVR © W.M.
am No U3	CMD Port: 21 (21 or 1025-5999) AVI Codec Cinepak Codec by Radius Intel Indeo (R) Video R3.2 Intel Indeo (R) Video R3.2 Intel Indeo RV Video A5 Intel Indeo RV Video Raw R1.2 Ligos Indeo RXP Video Raw R1.2 Ligos Indeo RXP Video Raw R1.2 Ligos Indeo RXP Video Raw R1.2 Intel I.263 Video Priver 2.55.012 Microsoft Windows Media Video S DVXR 5.21 Codec XwiD MPEG-4 Codec	Record Local record path C \DVR\ QK Cancel Codec INFO	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 • NETWORK
Live PlayBack BackupPlay	Disconnect		⊘ AVI ⊘ DVR

IP Addr: Input DVR IP address.

AVI codec: Different computer equipment; different AVI format. Microsoft Windows Media video 9 is better.

Or Cinepak Codec by Radius(Slow transmission, better quality) /

Microsoft Video 1(Fast transmission, bad quality).

Video: Fullsize, Halfsize: screen size choose.

NTSC, PAL. Frame/Sec: Video system choose. Record frame choose.

Click OK to confirm.

On Live / PlayBack , click DVR to save action pictures, *.DVR file. It needs this software to play. Browser, Local record path could change. The path user changes is for .DVR save, *JPG file is always C:\DVR

- Press DVR to start record .DVR file(DVR LED green on.), press again to stop.

1 ~ 16 full screen select.

Click DDNS Host Name:

🚟 Network Viewer V2.0	
CamNo 01 CamNo 02	NETWORK
CamNo 03 CMD Port: 21 (21 or 1025-1	IP Video IP Frame/Sec 5 Record PAL Frame/Sec 5 Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video Video
AVI Codee Cinepak Codee by Radius Intel Indec (R) Video R.3.2 Intel Indec (R) Video R.3.2 Video R.	Local record path 5 6 7 8 C.DVRN 9 10 11 12 QK Cancel 0 NETWORK Codec INFO 0 0 0
Live PlayBack BackupPlay	
Connect Disconnect	ØDVR



Type DVR DDNS host name: Myhostname.4irc.com CMD Port: command port 21 or 1025 ~ 5999. It is same as DVR network setup.

Which is same DVR MENU \rightarrow ADVANCED SETUP \rightarrow NETWORK SETUP \rightarrow DVR NAME:

TCP-IP SETUP PAGE 1. SPEED:>512K 2. DVR NAME:[Myhostname] 3. NET TYPE: OFF 4. STATIC IP SETUP 5. PPPOE ID SETUP 6. DNS/DDNS SETUP	DNS/DDNS SETUP 9. D.N.S 1: 000.000.000 10. D.N.S 2: 000.000.000 11. SERVER : DTDNS 12. DOMAIN: [4irc.com] 13. LOGIN ID:[your DTNS long in name]
7. SERVER PORT SETUP MAC ADDR: xx.xx.xx.xx.xx.xx	14. :[] 15. PASSWORD: [your DTNS long in password] 16. CLEAR DDNS SETUR
	DDNS host name: Myhostname.4irc.com

13. Click Login, depends on limits of authority. (ID / password is same as DVR)

🗱 Network Viewer V2.0	
CamNo D1 CamNo D2 CamNo 03 CamNo 03 CamNo 04 Login ID elimin pess ***** Cancel	NETWORK VIEWER
Live PlayBack BackupPlay Connect Disconnect	 AVI DVR

Factory ID is user login. Input admin if you are an administer. Must input on little character.

Factory: Password, admin : 44444, user : 11111. Password displays when log in, user just needs to input ID. User log in, no PlayBack function authority. Total 6 people log in. Admin x 1, user x 5.

Click OK, after about 5 seconds, admin login!! Message popup. And then click Connect to start.



14. Click Connect, after about 2 ~ 3 seconds to start connect LAN or WAN. Click Disconnect to stop. If the NETWORK is connecting success, the blue light would keep glisten



NETWORK

Click live / PlayBack / BackPlay mode.

Live: DVR live watching.

PlayBack: Change to playback mode. After 2 ~3 seconds to change.

💯 Network Viewer	And in case of the local division in the loc			
CamNo U1 Bo Cop (2012 4):04	Camina III	Lamke 13 04 top 33 "259304	Launo Le	NETWORK VIEWER
Camilo Do	Cam Ho UK	CamAc JX 06 Sep JJ 1265807	Camilio EG 35 Yep 5E 12:07 E4	
CamNo 00	C 3 m H3 10	Cenke 11	Cam.No 12	
CamNo 12	CamNo 14	Cembe 15	Gam No 16	
Live IbyDavis BackgrPhy G ILAY C TIME LIST C TIME SEARCH STOP	- Sət Tánə	stagt Setti DVR	DVR	

PLAY: Click RUN around 2 ~ 30 seconds to start play first record. If over 30 seconds, cannot find any file or network disconnect, Time out message popup. Please try again play or connect again. Click STOP to end playback.

TIME LIST: Click RUN, time lists popup. On the item, double click date and time to start play, around 2 ~ 30 to start play first record. If over 30 seconds, cannot find any file or network disconnect, Time out message popup. Please try again play or connect again. Click STOP to end playback.



TIME SEARCH: Chose date and time, click RUN, around 2 ~ 30 seconds to start play first record. If over 30 seconds, cannot find any file or network disconnect, Time out message popup. Please try again play or connect again. Click STOP to end playback.

🐖 Netverk Viewer				
CamNo D1 D5 Sep 27 18 LL:J2	Cam Ho V2	LEMAC 32.09 Sep 27 7610:02	l'an No L∠	
				VIEWER
CamNo Do	Cam No 86	LamNo J7 06 Sep 27 1810(0)	Cambolle JS Sep Gr 15:00:03	
CamNo 00	Can No 10	Camilia 11	Cam No 12	
CamNo 13	Сат. No. 14	ComNo 15	C371 No 16	NETWORK
Live IbyDack BackupPlay	- Sət Tárcə	****	i yla	
C FLAY C TIME LIST G TIME SEARCH	P T⊂ 01:00:26 ÷	10.01	DVR 🖉	

Notice: PLAY / TIME LIST / TIME SEARCH change, needs to stop play first.

-Master HDD Event Lists:



-Slave HDD Event Lists:



Click RUN, time lists popup. On the item, double click date and time to start play, around 2 ~ 30 to start play first record. If over 30 seconds, cannot find any file or network disconnect, Time out message popup. Please try again play or connect again. Click STOP to end playback.

15. BackupPlay:

🎬 Network Viewer : 243 [192.168	.192.243]			
CamNo 01 05 Nov 21 18:51:11	Cam No 02 05 Nov 21 18:51:11	CamNo 03 05 Nov 21:18:51:11	Cam No 04	
				VIEWER
CamNo 05	Cam No 06 05 Nov 21 16:51:11	CamNo 07 05 Nov 21 18:51:11	Cam No DS D5 Nov 21 16:51:11	
				〜 Login
CamNo 09 05 Nov 21 16:44:18	CamNo 10 06 Nov 21 18:44:17	CamNo 11	CamNo 12	O DVR
CamNo 13 Do Nov 21 16:44:18	LamNo 14	CamiNo 15 U5 Nov 21 16:18:25	LamNo 16 05 Nov 21 16:44:17	NETWORK
Live PlayBack BackupPlay	Contra L From:	1		
+Resume IIPause	To: Current:			🖉 AVI 🖉 DVR

- Click Open to choose file path.

192.168 Network Viewer : 228 [192.168	3.192.228]	
GamNo 01 06 Nov 21 14:00:38	CamNo 02 06 Nov 21 14:00:38 CamNo 03 06 Nov 21 14:00:39 CamNo 04 06 Nov 21 14:00:38	NETWORK VIEWER
CamNo 06 05 Nov 21 14:00:38 CamNo 09 CamNo 13	CamNo 06 05 Nov 21 14:00:30 CamNo 07 05 Nov 21 14:00:38 CamNo 08 05 Nov 21 14:00:38 開始 ? ※ 提導位置①: DVR < 200551141_31855 200551121_165423	<pre>%Legin @Setting @DVR</pre>
Live PlayBack BackupPlay	From : To : Current :	 AVI DVR

Click Play to start backup data play. Click Stop to end. Click Pause to temporary stop playback. Click Resume to restart.



Choose camera, click mouse right button. Camera 1 ~ 4 switches or reset all. Click Save "CamNo xx image . / save image all to save current image. Save path is C:\DVR.



4. AVI transfer: Click BackupPlay



AVI : On live or playback mode, save files to .DVR file. And then OPEN file, press play to start playback. Press AVI button to start record AVI file. Press again to stop.

Only 2 cameras selectable. A warning message appears if user selects over 3 cameras,



Net Viewer P / T / Z Dome control mode

For the setting details please refer to the remark on page 64 / 65 of the P/T/Z dome mode. Click the left button of mouse to choose the PTZ dome channel, and then press PTZ icon.



PTZ Control function:

Click the left button of mouse on direction arrowhead, on each click, the PTZ dome will move 16 +/- 4 degree.

The Numeral presents for camera channel not PTZ ID.

Record Time Table: 80GB HD

REC FPS	120	60	30	15	10
REC Hour	11	22	22 45 91		137
REC FPS	5	3	2	1	1/2
REC Hour	274	456	685	1370	2741
REC FPS	1/3	1/5	1/10	1/15	1/30
REC Hour	4112	6853	13706	20565	41140

Record Quality: Low. KB Range: Lowest: 13, Highest: 20. Average: 17.

Record Quality: Normal. KB Range: Lowest: 14, Highest: 25. Average: 20.

REC FPS	120	60	30	15	10
REC Hour	9	19 38 77		116	
REC FPS	5	3	2	2 1	
REC Hour	233	388	582	1165	2330
REC FPS	1/3	1/5	1/10	1/15	1/30
REC Hour	3495	5825	11650	17479	34967

Record Quality: Fine. KB Range: Lowest: 15, Highest: 28. Average: 22.

REC FPS	120	60	30	15	10
REC Hour	8	17	35	70	
REC FPS	5	3	2	1	1/2
REC Hour	211	353	529	1059	2118
REC FPS	1/3	1/5	1/10 1/15		1/30
REC Hour	3177	5295	10591	15890	31787

Record Quality: High. KB Range: Lowest: 17, Highest: 30. Average: 24.

REC FPS	120	60	30	15	10
REC Hour	7	16	32	64	97
REC FPS	5	3	2	1	1/2
REC Hour	194	323	485	970	1941
REC FPS	1/3	1/5	1/10) 1/15	
REC Hour	2912	4854	9709	14563	29127

Record Quality: Super. KB Range: Lowest: 19, Highest: 45. Average: 32.

REC FPS	120	60	30	15	10
REC Hour	6	12	24	48	72
REC FPS	5	3	2	1	1/2
REC Hour	145	242	364	728	1456
REC FPS	1/3	1/5	1/10	1/15	1/30
REC Hour	2184	3640	7281	10922	21845

Actual recording time is base on live environment. This table only for reference.

VGA Description (Optional)

Accessories:

- 1. 20 PIN Male to Female D-SUB pin cable X 1
- 2. VGA PCB bracket X1
- 3. Screws X4
- 1. VGA board introduction.



2. Resolution switcher table

Pin 4	Resolution	Pin 1	Pin 2	Pin 3
	640X480 60HZ	ON	ON	ON
800X600 60HZ		ON	ON	OFF
1024X768 60HZ		ON	OFF	ON
640X480 75HZ		ON	OFF	OFF
800X600 75HZ		OFF	ON	ON
1024X768 75HZ		OFF	ON	OFF
Resolution a	n and switcher description.			
Step. 1	DVR Power on. NTSC / PAL auto detects.			
Step. 2	Pin 4 no used			
Step. 3	Pin 1 \sim 3 switcher resolution. Do not need to power off DVR.			

Additional

Hard Disk x 2 can be installed on DVR base. Both are 2-iron slices immobile type. 2 Iron slices are in the accessories box, please tell supplier if slices are not exist

2-iron slices immobile type:



Slices immobile type: 4 screws hole on each slice. 2 for DVR base fixed. Another 2 for hard disk fixed.



Hard disk install.: Locking hard disk screws, then locking DVR base screws to fixed on.

P/T/Z Dome mode.

6. ADVNACED SETUP PAGE → P.T.Z SETUP



PTZ SETUP PAGE
CHANNEL NUMBER
1. ID
2. PROTOCOL
3. BAUDRATE
4. AUTO TOUR
5. LINE SCAN
6. AUTO FOCUS
7. AUTO IRIS

PTZ SETUP PAGE

CHANNEL NUMBER: CH01 ~ CH16

- 1. ID: 01 ~ 16
- 2. PROTOCOL: PELCO-P / PELCO-D / LILIN / ABC / ELITAR / DENTEC-D / DENTEC-P / OFF
- 3. BAUDRATE: 1200 / 2400 / 4800 / 9600
- 4. AUTO TOUR: ON / OFF
- 5. LINE SCAN: ON / OFF
- 6. AUTO FOCUS: ON / OFF
- 7. AUTO IRIS: ON / OFF

After PTZ setup done, go back to live mode. Press W.M. button to PTZ mode.

Icon displays beside date and time caption. To use direction button left/right/up/down

to move PTZ Dome. PTZ Dome can not be control on split screen.

PS. Because the P / T / Z Dome setup is independent by channel and ID, user does not worry about the different ID / Protocol / Baud Rate would affect DVR controls P / T / Z dome error. Just make sure channel and ID / Protocol / Baud Rate corresponding is correct.

Front Panel Button Comparison:

W.M.: Press W.M button To P / T / Z mode

PLAY / REC = IRIS off / IRIS open

BACKUP / T-SRH = ZOOM IN / ZOOM OUT

MENU = P / T / Z Dome Menu

FRE. : To Preset mode. PRESET: 000 glisten on left-up corner. Moves P / T / Z dome to the position user wants.

When "PRESET: glistening", press number button. EX: 1 ~ 9. 10 = 1 + 10, 11 = 1 + 1, 12 = 1 + 2, 21 = 2 + 1, 132 = 1 + 3 + 2.

ZOOM : After press ZOOM button to save the presets.

INFO : Press FRE. button into preset mode. When "PRESET: glistening", press number button, and then press INFO to call preset.

AUTO : Press FRE. button into preset mode. When "PRESET: glistening", press number button, and then press AUTO to clear preset.

IE Networking Software

- 1. This web is for preliminary IE browser.
- 2. User can download the network viewer from this web page or view the DVR video image in the future.
- 3. The AP software is already saved to DVR system IC. User needs to do is:
- a.) Go to Advanced Setup→ Network Setup→ Sets LAN or WAN IP address of DVR.
- b.) Open IE browser, and then into your IP on the IE address bar.
- c.) If LAN or WAN connects ok, the 16 Channel Digital Video Recorder web page displays like under:



Recording condition

A: Solution 1 for residual image

16 channel: channels are divided into 4 groups as:

(1 \ 5 \ 9 \ 13) (2 \ 6 \ 10 \ 14)

(3 \ 7 \ 11 \ 15) (4 \ 8 \ 12 \ 16)

Recording with one input from each group

B: Solution 2 for playback image pasting

Record Chanel \ Record Rate		30fps or less	60fps
	1	1	2
	2	2	
	3	4	
	4	4	4
	5	7	
Channel for	6	7	8
Video input	7	7	
	8	8	
	9	11	
	10	11	14
	11	11	
	12	13	
	13	13	
	14	14	
	15	16	- 16
	16	16	

Remark A:

1. Under 30fps, the recording channel can not be the multiple of 3, 5, and 9

2. At 60fps, the recording channel can not be the even multiple of 3, 5, and 9

3. 120 fps recording under 16 channel

The channels are divided: $(1 \cdot 2 \cdot 3 \cdot 4)$ in one group / $(5 \cdot 6 \cdot 7 \cdot 8)$ in one group (9 \cdot 10 \cdot 11 \cdot 12) in one group / (13 \cdot 14 \cdot 15 \cdot 16) in one group

As long as there is one input in either group, all the 4 channels will be recorded