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

Digital Video Recorder

User's Manual



SATA HDD x 2 Audio input x 4 Dual monitor output

CE F©

Safety Precautions





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.

Warranty and Service

There are no serviceable parts for this unit, call for your agent for details.

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..
- 3. 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.

FCC Statement:

WARNING

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received including interference that may cause undesired operation."

* Federal Communications Commission (FCC) Statement

WARNING

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- * You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FRONT PANEL

Please operate the keypad function according to the DVR model that you purchased



4CH DVR

5.



CHANNEL 4 : Channel 4 full screen button



8CH DVR

HANNEL 1 / 5
 CHANNEL 1 / 5
 CHANNEL 2 / 6
 CHANNEL 3 / 7
 CHANNEL 4 / 8
 Channel 4 / 8 full screen button

On live mode, press Enter button to (Shift) mode and then press number button 1; 2; 3; 4 switch to 5; 6; 7; 8 channel full screen.

6.	LOCK	: Press this button to Key Lock function
7.	AUDIO	: Audio on or off button
8.	AUTO	: Auto sequence mode
9.	BACKUP	: Image backup button
10.	UP / STOP	: Direction button UP / Playback stop button /
11.	DOWN / PAUSE	: Direction button down / Playback pause $\mathbf{\nabla}$ / \mathbf{I} (Step play)
12.	REW / LEFT	: Reverse playback choose button / play speed 🗲 / 🗲
13.	FF / RIGHT	: Forward playback choose button / play speed 🕨 / 🕨
14.	ENTER	: Enter button or value change(+) / Shift mode(S)
15.	MENU BUTTON	: Press this button to display the menu setup
16.	ESC / PTZ	: Press this button to exit menu / PTZ mode
17.	T-SRH	: Press this button to playback time search
18.	PLAY BUTTON	: Press this button to playback
19.	+ BUTTON	: Increase + values change.
20.	REC BUTTON	: Press this button to start recording image
21.	- BUTTON	: Reduce - values change
22.	USB 2.0	: Pan Driver slot

*User needs to plug in USB again if ActiveX loaded; image backup or version updated.

REAR PANEL





Power code in 12V/5A, power switcher (ON / OFF)



Camera 1 ~ 8 input BNC type



MONITOR2

Monitor out



VGA out (Optional)



Audio channel input x 1 and output x 1



Alarm / Relay / RS 485 connector



RJ-45 (Network connector)



PS 2 type mouse connector

RS232/ISP: Not available

DVR Initialing

or detect a new hard disk





Hard Disk capacity; Hard Disk capacity used; Network Type and IP address information

Mouse Control



① Screen display	1. Double-click of the left button on desired camera	
	to full channel	
	2. Double-click of the left button on desired camera	
	to 9 split screen	
③ Menu display	1. One-click of the right button to menu OSD	
	2. Back to last OSD page	
② None	No function	
① Select	1. One-click on the item of OSD	
	2. One-click on the value of item	
	3. One-click on the Exit to quit and save menu	
	4. From right-up to left-below and the set motion	
	detect area	





Operate:

MENU BUTTON	: Press MENU button to enter menu setup or exit
ESC / PTZ	: Press ESC button to exit menu / To PTZ control mode
ENTER BUTTON	: Press Enter button to confirm set or value change(+) / Shift mode
DIRECTION BUTTON	: MENU item select
+ BUTTON	: Increase + values change
- BUTTON	: Reduce - values change
BACKUP	: To backup mode

($\hfill \hfill \hfil$

Remote controller (Optional):

The key on the remote controller function control is same as the front keypad of the unit. User please operate according to the DVR model that you purchased



Number	: Channel select 1 ~ 8
Quad / Spli	it screen
Auto	: Channel sequence
Audio	: Audio on / off
PTZ	: To PTZ mode
UP / STOP	: Direction button UP / Playback stop button
REW	: Reverse playback choose button
DOWN / PA	USE : Direction button down / Playback pause
FF	: Forward playback choose button
ENTER	: Enter button or value change
	TON : Press this button to display the menu setup
BKUP	: Image backup button
ESC	: Press this button to exit menu
T-SRH	: Press this button to playback time search
PLAY	: Press this button to playback
REC BUTT	ON : Press this button to start recording image
+ BUTTON	: Increase + values change >
- BUTTON	: Reduce - values change

Main MENU – Camera Set



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

-12	15%	2007/07/31 23:20:08	10	and the same	
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со т в с н s	itle rightness ontrast ue aturation				
G	♥)MOVE (ENT)SE	LECT (MENU)EXIT	•		CHO

Main MENU - Camera Set - Display (Channel mask, but it still do recording.)

Main MENU – Camera Set – Title

Camera title setup function allows 5 characters for each channel.



Select Shift to next page and then Enter to confirm camera title.



Main Menu – Record Set



Record Set – Record Framerate

No. 1	-	53% Record Fr	07/0 amerate	7/14	14:2 9 ¹	8:29	
	Channel-	1 < 1100	0000	>	6		
	Channel-	2			6		-
	Channel-	3	0000		6		1
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	Channel-	6	0000		6		
	Channel-	7	0000		6		
	Channel-	8	0000		6		
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86	(+-)+-						
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		a -					

Record Set – Record Quality

High / Normal / Low

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	- 9-40 	Record	Set			
	Record F	ramerate uality	4	ні	ah}l	
	Event Re Auto Rec Data Ret Schedule	c Duratio ord ention Se Record	n	lm ld	10 in ay	
	(_A ^y)xove	(ENT)SEL	ECT	(MENU)E	XIT	

Record Set – Auto Record

After $1 \sim 8$ minutes, auto start to record if no operation.



Record Set – Event Rec Duration

5 / 10 / 15 / 20 / 25 / 30



Record Set - Data Retention Set

1 ~ 15 days



Record Set – Schedule Record



Notice:

- 1. Each channel has own frame rate adjustment of each recording mode.
- 2. In 24 hours, user can adjust each channel frame rate of different record mode. Such as schedule, motion detection, and alarm record more.
- 3. Press button to change different of record modes.

1. Schedule record mode



2. Motion record mode



3. Alarm record mode



4. Motion + Alarm + Schedule record mode

1		1%	2007/08	/15 02:0	1:02 *
1993 1995 - 1995 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 -		Schedule	Record		
		0 0 1 1			
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	Ala Sch	rm Record edule + Mi	D + Aları	Record	
	(A ^V)MOVE	(ENT)SEL	ECT (MES	U)EXIT	

Record Time Table: 80GB HD

Record Quality: Low. Average: 5 KB;

REC FPS	60	30	15	10
REC Hour	72	148	296	444

Record Quality: Normal. Average 10 KB;

REC FPS	60	30	15	10
REC Hour	36	74	148	222

Record Quality: High. Average 20 KB;

REC FPS	60	30	15	10
REC Hour	18	37	74	111

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

20 K x 30 (frame rate) x 60 (mins) x 60 (secs) = 2160000 K = 2160 M / hr 2160 M / hr x 24 = 51840000 K = 51840 M = 51.84 G / (1 Day)

Please format hard disk before starting recording after all the HDD installation

Hard disk compatible table

Seagate	ST31000340AS	1TB
Seagate	ST31000333AS	1TB
Seagate	ST3750330AS	750GB
Seagate	ST3500320AS	500GB
Seagate	ST3250620AS	250GB
Hitachi	HDS721075KLA330	750GB
Hitachi	HCP725050GLA380	500GB
WD WD	5000AACS	500GB
WD WD'	1600AAJS	160GB

Main Menu – Alarm Detection

Alarm Detection	Alarm Detection
Alarm Duration OSI Alarm POP UP Set Isec Alarm Detection-1 N/Open Alarm Detection-2 N/Close Alarm Detection-3 Disable Alarm Detection-4 Disable Alarm Detection-5 Disable	Alarm Duration OS Alarm POP UP Set Isec Alarm Detection-1 (V/Open) Alarm Detection-2 N/Close Alarm Detection-3 Disable Alarm Detection-4 Disable Alarm Detection-5 Disable Alarm Detection-6 Disable
Alarm Detection-7 Disable Alarm Detection-8 Disable (A ^W)MOVE (ENT)SELECT (MENU)EXIT	Alarm Detection-7 Disable Alarm Detection-8 Disable (A)MOVE (ENT)SELECT (MENU)EXIT

Alarm Signal type depends on Alarm Sensor polarity define on NO (N/Open) or NC (N/Close) mode. Alarm POP UP: Event channel jump to full screen when alarm triggered. 9 Split screen with the alarm symbol if there is more than two cameras triggered.



Relay: NO + COM or NC + COM

Alarm Signal type depends on Alarm Sensor polarity define on NO (N/Open) or NC (N/Close) mode.

NO + COM: Normally, motion relay is NO + COM connector.

Relay action:







Relay: NC (Normal Close)

Ō

COM









Main Menu – Motion Detection



Main Menu – Motion Detection – Motion Area





Motion POP UP: Motion channel jumps to full screen when motion triggered. 9 Split screen with an alarm symbol if there is more than two cameras.

Main Menu – Motion Detection – Motion area selection

Direction button Left or Right + ENTER to cancel detection area.

Select start (right-up corner) point and end (left-below corner) point of detect area.



One-click of the mouse left button to cancel detect area.

Select start (right-up corner) point and end (left-below corner) point of detect area.

Main Menu – Screen – Border: Quad border On / Off display



Main Menu – Screen – Video Adjustment: Video screen position movement





Main Menu – Video System



Auto as the default, users connect any video input to channel 1 and then power on DVR to detect video system.

NTSC / PAL select according to local video system(needs to reboot DVR after change)

Main Menu – Display Setup – Output

Live screen resolution output select 720 x 448 or off



Main Menu – Screen – VGA Frequency and VGA

	Screen	Screen	and the second
-	Border On Video Adjustment	Border Video Adjustment	on
	VIGO SYSTEM AUTO Output:720x448 On VGA Frequency 60Hz VGA 4 800x600	Do you accept this cl [ENTER]Confirm [ESC]	hange? Cancel
N/C			
	(A)MOVE (ENT)SELECT (MENU)EXIT	MOVE (ENT)SELECT	(MENU)EXIT

After adjusted, press ENTER to see if it has change the dialogue resolution, press ENTER to change, press ESC to cancel. If user does not make any change, the mode will change back to last status after 15 seconds.

DVR needs to reboot if 1280x1024 resolution adjusted.

Main Menu – Audio Set



- If microphone, audio line in or any how, user please set the audio record mode to on and also adjust volume input or output to right sound effects.
- Mute means live audio is turn on or quiet.

Main Menu – System Set – Hard Disk



Main Menu – System Set – Format HDD



Main Menu – System Set – Hard Disk Setup – Format HDD – Password



HDD was formatted successful.



- Before hard disk format, user needs to put the right password. The password is same as unlock which is default 111111.
- Please set HDD to Master if only one installed. Second one to Slave.
- Hard Disk Master and Slave jumper pin must right, otherwise it makes DVR work fault.
- Please format hard disk before starting recording after all the HDD installation

Main Menu – System Set – Security Protection - Password Change



Menu Protection:

On / Off. User needs to login password before enter to menu.

Auto Key Lock:

After 1 \sim 60 seconds system automatically key lock which means before operate DVR user needs to unlock.

Main Menu – System Set – Time Set



Select time zone and auto time synchronization with NTP server. Network is required on NTP server. After time set or daylight mode turns to on, user needs to Apply and confirm. $0 \sim 9$ is repeatable with increase + button,

And decrease - button is opposite. Them the system will be rebooting.

If the DVR is under a network system, suggest enable NTP server to get a network request automatically.

Main Menu – System Set – Dwell Time Setup (Channel auto sequence)



Main Menu – System Set – BUZZER SETUP





Main Menu – System Set – Network Settings

Network Settings

2008/12/16 08:29:05

Yes)

1

8841

Highest

12:34:56:78:9A:0C

(11 哲信 HDD: 02

Enable Local IP

Port Hac Address

Video Quality

Password



Select static IP address / Gateway / Net Mask

Network Settings – Local IP – DHCP

Auto IP detected under IP sharing or router

Local IP

(MOVE (ENT)SELECT (MENU)EXIT





Main Menu – System Set – Network – PPPOE

	Local IP	2		242	20/12/2008 15 51 55
	ІР Туре	[PPPOE]		LOC	at ce
	IP Address 0. (Gateway 0. (0. 0. 0	110	те туре	[PPPOE]
-	Net Mask 0. (0. 0. 0		IP Address	0. 0. 0. 0
Sec. 6	PPPOE ID			Gateway	0. 0. 0. 0
	Proc Passiono		-	PPPDE ID	
			100	PPPOE PASSNORD	arrowing 1
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(MOVE (ENT) SELECT	MENU)EXIT	1		100 - 100
			C	WONE (ENTER)	SELECT (MENU)EXTT
and the second			and the second second		





Network Settings – Local IP

Main Menu – System Set – Network – PPPOE – ID



If the DVR is under a network system, suggest enable **Main Menu – System Set – Time Set NTP server** to get a network request automatically.



Main Menu – System Set – Network – PPPOE – Password

Input PPPoE account and password. And then save & exit menu. After a while, the system will be rebooting. And back to network set again, user would see IP appears.

IP would not correctly appear on screen if any firewall or router authority management.

User type the IP to Net viewer or IE browser to view image via network.

Main Menu – System Set – Network – D/DNS set

User needs to apply a account for DDNS setup

Ex: Enter in <u>www.dyndns.com</u> to apply a free account and host name.

Click Create Account to make a new ID name.



Fill in all the personal information, password, email requested; please go to user's email account to active your new account. Return to DynDNS website; click Account to long in page.

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	Services	Account	Suppor	Uner: SERVER	CV1000 Press Lost Research - Create Account	Logi	1
Login			1.1				-
- Account Login							_
	Usemame:	cv1000	Password	123456	Login		
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Click Add Host Services:

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y Account	Account Level S	Services			1	
ly Services						
Hocount Upgradea	Paid Acco	iunt ())	No	Technical Support		
Repursive DNS	Account Up	grades (2)	No	Mary - Add		
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memer Support	Recursive	DNS (2)	None	Add Recursive Citils		
Add Zone Services	DNS Service Leve	Agreement (2)	None	Add DhiS Service Level Acrossed		
Add Hox Services	Premier Suppo	rt Option (7)	None Available	Add Prenist Support Case		
euto Renew Settinge lync Expirations ccount Settings	Zone Level Ser	vices			Add Zone Services	
ling	No zone level service items registe	red: Add Zone Services				
lý Cart	Host Level Serv	lices			Add Host Services	
teeps	Host	DNS Service	WebHop	Network Monitoring	SSL Cert	

Click "Add Host Service"

Add static DNS Host:

Select Static DNS: add Static DNS Host

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🛞 Dyn	DNS			Logged In User I SERVER CV1000 Mr. Services - Mr. Cert - Settings - Loss Cod
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ly Account	Add Host Services			
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Type a Hostname user decided.

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🔿 Dynl	DNS					Logged In User evil My Seculars - My Cett - Sefa	000:v1000
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ly Account	New Dynam	nic DNS ^S	M Host				
Account Upgrades	Hostn	anne:	d 6 020	, dyndr	is.org	4	
NailHop Outbound	tP Add	ress:	210.66.151.43				
LA	Enable W	ildcard:					
vernier Support	Mail Exchange	r (optional):		E Bac	kup M02		
Add Host Services Add Host Services Dynamic DHS State DHS State DHS WebHop NetWork Monitoring 353, Certificates Pathwork Monitoring 353, Certificates Hoto Person Settinge Hoto Person Settinge	No us	eful	df6020			Add Host	
iccount Settings							
iling .							

Ex: Create a new df6020 host name, after add a new host name; DynDNS page shows a confirm message page.





Enable :	YES
DNS Server:	From ISP
DDNS Server:	DynDNS.
HOST Name:	Insert host name
User Name:	Insert DynDNS username
Password:	Insert DynDNS password

On IE browser blank bar, type df6020.dyndns.org; and then user can get on line.

DNS address is required.

Network stream speed depends on the locality bandwidth.

Advice user apply network speed Upload 512K / Download 512K or more, to avoid image data too big influence the remote quality.

DNS only works under DDNS mode.

Main Menu – System Set – RS-485



This page is for control keyboard connection. Please choose baud rate and ID. DVR maximum amount ID is 16

Other settings just leave them as default

Main Menu – System Set – Pan/Tilt Device



Control: Keypad, mouse

* Mouse control: press ESC to PTZ mode, press AUTO button, and then once-click left button of mouse to control PTZ movement.

Press quad button + number $1 \sim 4$ button to set presets, press AUDIO + $1 \sim 4$ to call preset. Press AUTO to start auto presets, AUTO again to cancel.

Up/Down/Left/Right: PTZ dome direction control

+ / - : Zoom in / Zoom out

The AUTO command is 76 + Preset. The command would be different if connect to others PTZ dome. It is normal if no any action after press AUTO.

Main Menu - System Set - F/W Upgrade

Stop all hard disk working before update, select F/W upgrade and then press ENTER to search firmware. **HDD needs to be installed before update.**

- 1. Searching Firmware
- 2. Press ENTER upload, press STOP cancel
- 3. Firmware Reading
- 4. Firmware uploading
- DVR auto reboot after F/W upgrade finished.

	10055 (C 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2008/12/10 11	-19:50
	System Set	up	
-	Hard Disk Setup Security Protection Time Setup		
-	Ovell Time Setup Bazzer Setap Network Setup		1
	RS-485 PTZ Device	100	
C	Load Player Software		
	(AP) MOVE (ENT) SELECT	(MENU)EXIT	

Main Menu – System Set – Load Player software

Stop all hard disk working before load player software



- Before DVR IE connection, please download the NTVIEWER.exe to DVR hard disk from CD-ROM, and then you can view DVR image via internet any PC.
 Steps: CD disk → NTVIEWER.exe → USB pan drive → DVR (with hard disk) USB → Menu - System Set – Load NTVIEWER.exe → ENTER button
- Also install NTVIEWER.exe to your personal computer. Net viewer is packaged with NTVIEWER.exe

Main Menu – Search



Main Menu – Search – EVENT LIST

Search

2008/12/16 11:23:49

Main Menu – Search – Time Search

Press ENTER to select date and time. Direction left and right button to move value item. ENTER or + / - button to change value.



Main Menu – Search – Time Search: after date and time select, go to Search and then press ENTER to start playback.



07/07/12 16:16:58 4% Time Search 2007/07/12 14:08:11 2007/07/12 16:16:58 Start End 2007/07/12 16:15:12 Searching... Search

Main Menu – Search – Event List



Select an event item of lists and then press ENTER to start to play.

"*" it means only a record of the event lists, but it can not to be playback

		4%	07/ 07/	/07/12 10 /07/12 10	5:17:02 5:15:14
СН1	Times	СН2	a: -	СНЗ	
CK4	*	сн5	W. ···	СНБ	M.
СН7		СН8	W.		

Playing

Forward speed: x 2 / x 3 / x 4 (Direction right button) Reverse speed: x 8 / x 16 / x 32 (Direction left button)

Press STOP to search list, press ESC to live mode.

Backup mode: Before backup, USB pan driver is required. Back up file size can not exceed 1GB, when system reads USB (thumb driver only) device, the system will stop recording about 2 seconds (128MB USB)



Mode 1: On live mode, press backup button to file backup page.

DVR is reading pan driver

Start

End

End

Apply Size

(AT)HOVE

CH1

CH4

CH7

2007/07/09 08:08:34 2007/07/09 08:37:37

112832 KB

(ENT)SELECT (MENU)EXIT

Please Select Time Start 2007/07/09 08:35:04

2017/07/09 08:35:30

1		2% 07/0	7/09 09:45:12	11		2%	07/07/09 09:45	:20
сн1	Start End	Backup To USB 2007/07/09 08 2017/07/09 08	:35:04	СН1	Start End	Backup To 2007/07/ 2017/07/	USB /09 08:35:04 /09 08:35:30	
сн4	Disk Ava Copy Siz File Nam Writing Time To	ilable e 112 e 070909 To USB Remain	832 KB 45.vvf	сн4	Disk Ava Copy Siz File Nar Writing Time To	ailable ce ne (To USB Remain	408340 KB 112832 KB 07090945.vvf 7 MINS	
СН7	R	EADING USB DISK		CH7	PRI	CSS (BACKUP)	то сору	

After select backup time, apply to count

button to USB page.

data size. After size appears, press backup

After a while, all backup information display on screen, user now can press backup button to start file backup.

Data is writing to USB pan drive, users please wait until backup complete. Press menu button to quit USB page.



Mode 2:

Press play button to start playback, the playback beginning time is the last one hour record. Press Backup to select backup time. User only can increase seconds in this backup way. Press backup button to USB page which is same as mode 1.



A	2% 07/0 07/0	7/09 11:10:43
CH1 Size	2007/07/09 0 2007/07/09 0 СН2 11520 КВ	8:08:36 38 II 8:08:48
сн4	сн5	СНБ
CH7	CH8	

Mode 3: On event list, choose an event record data, and then press backup button. Pages go to USB page, after data size appears, press backup button to the page which is same as mode 1

• 1		4%	(5)	07/07/12	2 16:27:	02 ^{- x}
		Even	t Lis	t		
	NUMBER	STA	RT TI	мε		
	029 07/0	7/12 16	:25:1	4 MANUAL	*	
	028 07/0	7/12 19	:53:4	2 ALARM		
8 V	027 07/0	7/12 19	:53:3	4 MANUAL		a.
	026 07/0	7/12 19	: 53:2	3 ALARM		
-	025 07/0	7/12 19	:19:3	2 MANUAL		
	024 07/0	7/12 15	:04:5	3 MOTION		
	023 07/0	7/12 15	:04:1	3 MOTION		
	022 07/0	7/12 19	:04:1	2 MOTION	Ŧ	
	START :	07/07/1	2 15:	53:23		
	END :	07/07/1	2 15:	\$3:34		
		E PAGE	(01/0	4) 🕨		
		1-				
	- 21					





•11	*	4%	(5)	07/0	/12	16:28:49
		8ackup	To U	58		
	Start	2007	/07/1	2 15	53:	23
	End	2007	/07/1	2 15	53:	34
	Disk Avai	lable		464	548	(8
	Copy Size			9	792 1	(8
	File Name		07	1216	28.VI	/F
	Writing T	US8				
	Time To R	emain		39	SE	5
- iii	PRES	S (BACK	UP) TO) CO	PΥ	

Backup To USB CH1 Start 2007/07/09 08:35:04 End 2017/07/09 08:35:30 - Disk Available 408340 KB Copy Size 112832 KB File Name 07090945.VVF Vertice
СН1 Start 2007/07/09 08:35:04 End 2017/07/09 08:35:30 - Disk Available 408340 кв Copy Size 112832 кв File Name 07090945.vvF
CH1 End 2017/07/09 08:35:30 _ Disk Available 408340 KB Copy Size 112832 KB File Name 07090945.VVF
Disk Available 408340 KB Copy Size 112832 KB File Name 07090945.VVF
Copy Size 112832 KB File Name 07090945.vvF Vitiga To USP 428 VP
File Name 07090945.VVF
Voition To USA 478 KB
AFTUINU 10 US6 920 No
Time To Remain 7 MINS CH4
CH7 Writing To USB Disk

•10		2%	07/0	7/09 11	:08:04
		Backup T	o USB		
сн1	Start End	2007/0	7/09 08	35:04	
сн4	Disk Ava Copy Siz File Nan Writing Time To	ilable e To USB Remain	408 112 070909 112	340 KB 832 KB 45.VVF 827 KB 0 SECS	
сн7		COMPLE	τε.		

USB compatible(Max. 4G) ADATA / Transcend / San Disk / Kingston

Main Menu – Language – English or Chinese





Main Menu – Exit



User needs to save changes if any function value has changed. And then exit menu.

Operate:

MENU BUTTON	: Press MENU button to enter menu setup or exit
ESC BUTTON	: Press ESC button to exit menu / PTZ mode
ENTER BUTTON	: Press Enter button to confirm set or value change(+) / Shift mode
DIRECTION BUTTON	I : MENU item select
+ BUTTON	: Increase + values change
- BUTTON	: Reduce - values change
BACKUP	: To backup mode

($\hfill \longrightarrow$) MOVE (ENT) SELECT (MENU) EXIT

Net viewer



3 4 5 6

Viewer function:

- 1. Backup file player
- 2. Network viewer
- 3. Connection

DVR control via viewer:*

- 4. DVR screen: Split, Channel full screen / Key lock / Channel auto sequence.
- Audio ON : stream speed not good. OFF : stream speed good
- 5. DVR function: MENU / ESC / Play / REC / T-SRH / values change / + values change
- 6. DVR direction button: Up (Item select, Play Stop) / Down (Item select, Play Pause)

Left (Item select, Play Reverse) / Right (Item select, Play Forward)

ENT (ENTER): Item confirm/select, values change)

- 7. DVR menu pop-up
- 8. Audio volume (PC site)
- *Viewer control panel button is same as DVR keypad.

*Viewer and DVR display is synchronously.

- *PTZ control is supported on viewer and control way is same as DVR keypad.
- *PTZ control and movement speed depends on network streaming.

Viewer configures:

NetWork Viewer v3.0	(c)			
	C 1 1001	an : 2008	MUUM	/0/27/18 13:35:59
	Player ✔ NetViewer		industra in	The Property of the
(931)	Disconnect Dvr Control <u>A</u> udio Local Recor	dina +		Cites
	Always <u>O</u> n Full S <u>c</u> reen <u>M</u> aximize As <u>p</u> ect Rati	тор о •		
CH14	Ogtions	Alt+F4	A CONTRACTOR OF THE	00205
0991%	13	10163		
	ine.			
S connected CI C			MENU ESC TSBH	

Switch to backup file play mode
Switch to DVR network viewer
Network log out and connect canceled
DVR function control
Audio volume adjust (PC site)
Viewing image record
Player or viewer always on top even other data folders open
Viewer change to full screen
Full screen display
Resolution 640 x 448 / 640 x 544 adjust
Viewer function setup
Always on Top: Player or viewer always on top even other data folders open
Auto Reconnection: Reconnection if non artificial network disconnect.
Path for local recording: Please select a path of your PC.
Viewer version
Close viewer

File Player:



Click browser to open file which you saved



Player button

Open \ Fast Backward \ Play Reverse \ Previous Frame \ Pause \ Next Frame \ Play Fast Forward \ Still Capture

- 1. DVR USB or net viewer backup file (*.VVF)only read in player
- 2. Local recording file only read in player, except transfer to AVI.
- 3. Backup file includes video and audio

Player Configure:

F:\02031	629.VVF				
Player	👽 Viewer				
CH1 1990/01	717 04:47:05 CH2			СНЗ	
	✓ Player NetViewer			<u>euc</u>	
	Open File Open <u>D</u> isk <u>E</u> xport <u>C</u> lose	F2 • F4		Спо	
	✓ Show <u>Time</u> Always <u>On</u> Top				
СН7	Capture <u>A</u> udio	•	Mark <u>I</u> n Mark <u>O</u> ut	СНЭ	
	Full S <u>c</u> reen <u>M</u> aximize As <u>p</u> ect Ratio	•	Experit		
	Options				
	E⊻it	Alt+F4			
II PAUSE	1990/01/17 04:47:0	5			
		•	•		

Player	Switch to backup file play mode
Netviewer	Switch to DVR network viewer
Open File	Open the backup file which saved in any path
Open Disk	Open the DVR hard disk which is installed to PC SATA slot
Export	Backup file to AVI files transform (Video + Audio). See AVI page
Close	Player Button control disable
Show time	Show the backup beginning time
Always on Top	Player always on top even other data folders opened
Mask in	Select start time of backup HDD data.
Mask out	Select end time of backup HDD data.
Playback	Play back mode and speed select. Same as Player button
Audio	Audio volume adjust (PC site)
Full screen	Player screen to full size
Maximize	Player to full of screen
Aspect Ratio	Player resolution adjust
Options	See Next page
About viewer	Version of viewer
Exit	Player and viewer exit

Options

C:\Docu	uments and Settings\maxchen\桌面\Max\20070715-123120.VVF	
Player	Viewer	
СН1 2007/0	7/15 10:01:05	22
СН1	General ☐ Always on top (A) ☑ Show time ①	
a 24	On screen display date/time format %Y/%m/%d %H:%M:%S 2007/07/15 12:43:49	
СН4 СН7	Path for still capture C:\Capture Browse	3080MB 2744MB
	User creates or selects a record path	334408
	OK Cancel	2.150
B AUSE		

Always on top: Player always on top even other data folders opened

Show time: Show the PC time of when user start recording backup file <-



On Screen display date/time (Show time) format: Please select the date format you want.

%Y/%m/%d %H:%M:%S:	2007/06/15 15:32:29
%y/%m/%d %H:%M:%S:	07/06/15 15:32:29
%Y/%m/%d %p %I:%M:%S:	2007/06/15 PM 03:32:29
%y/%m/%d %p %I:%M:%S:	07/06/15 PM 03:32:29
%b %d %H:%M:%S %Y:	JUN 15 15:32:29 2007
%b %d %p %I:%M:%S %Y:	JUN 15 PM 03:32:29 2007

VVF file export to AVI



Users please wait until file export completed.

PTZ Control mode



Zoom -- / + : Lens, Near / Far Menu: Call PTZ OSD Enter: OSD value confirm

Channel: Select PTZ channel

Preset: Preset setup Select preset 1 ~ 8, and then click SET to save. Click CALL to run preset. Click AUTO to start all presets. Click STOP to terminate. CLEAR, delete preset 1 ~ 8

IE browser:



IE control button is same as DVR keypad.

- Before DVR IE connection, please download the ActiveX to DVR hard disk from CD-ROM, and then you can view DVR image via internet any PC.
 Steps: CD disk → ActiveX → USB pan drive → DVR (with hard disk) USB → Menu - System Set – Load Active-X Control → ENTER button
- 2. Also install ActiveX to your personal computer. Net viewer is packaged with ActiveX.exe.

Specification

Channel	4CH	8СН
	4 CH Inputs 1.0Vp-p,	8 CH Inputs 1.0Vp-p,
	75ohm unbalanced	75ohm unbalanced
Input	(BNC Type)	(BNC Type)
Output	Main monitor composite (BNC type) x 2	
S/N Ratio	More than 40dB	
Color	6.7 Million	
Monitoring Method		
Channel Display	1/4	1/4/9
Sequence Display	Available. 0 ~ 999 seconds.	
Screen Quality	720(H)x 448(V) Active Pixels(NTSC);	
	720(H) x 544(V) Active Pixels (PAL)	
Display Rate	120 fps (NTSC) / 100 fps (PA	L) 240 fps (NTSC) / 200 fps (PAL)
Recording/ Play Funct	tion	
Recording (Max) NTSC	Max 60 fps(NTSC); Max 50 fp	os(PAL)
Recording Resolution	640x224(NTSC); 640x272(PAL)	
Record Quality	High, Normal, Low	
Compressed Picture	Storage: MJPEG, network / internet: MPEG4	
Recording Control	Auto / manual / schedule / motion / alarm	
Playback Mode	Time list / event list / Date & Time search	
Other Function		
Operation Mode	Record / Play / Network	
Motion Detect	16 x16 grids camera for all channel	
Alarm	Alarm in x 4 / Relay out x 1	Alarm in x 8 / Relay out x 1
Back-Up	USB 1.1/2.0 memory and network remote backup	
Storage	HDD x2 (SATA)	
Audio Input	RCA x 4	
Audio Output	RCA x 2	
HDD Record Mode	Full stop / overwrite	
Remote Backup	Through client application	
PTZ Control	PELCO-D, PELCO-P, MERIT LI-LIN	
Key Lock	Yes	
Real Time clock (RTC)	Support NTP (Network Time Protocol)	
Remote Control	Support	

Network Function

Ethernet	10 /100 Base-T
Web interface	Support licensed software AP
Network Connection	TCP/IP, PPPoE, DHCP, DDNS
Client Application	Display / playback / PTZ / DVR control
Power Supply	DC 12V / 5A
Weight	N.W./G.W. 3.06kg/3.68kg
Dimension	426(W) x 328.5(D) x 65(H) mm
Operating Temperature	41 °F~104 °F (5 °C~+40 °C)
Operating Humidity	Less than 90%