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Specifications

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CEFC Safety Precautions





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



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.





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 Manual

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

Also, when connecting with external devices, first turn the power OFF and follow the instruction manual for appropriate installation.

Before Installing the DVR

- 1. This document is intended for both the administrator and users of the SE DVR.
- 2. This manual contains information for configuring, managing and using the SE DVR.
- 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 the SE DVR.
- 5. For questions and technical assistance of this product, contact your local dealer.
 - ► It is strongly recommended on installation of the DVR unit, that::
- 1. Check that electrical power is stable and meets our power requirements at the DVR installation site. Unstable electricity can cause malfunction of the unit or even critically damage the unit.
- 2. Several chips on the main board of the DVR unit and hard disk drive inside the unit generate heat which must be properly exhausted. Do not block the exhaust port (fan) on the left side of the unit and do not block the fresh air in-take on the right side of the unit..
- 3. Locate the DVR in a well-ventilated place and do not put any heat-generating objects on the unit. If it is installed in a 19 inch mounting rack together with other devices, please check that the built-in ventilation fan of the rack is running properly.

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



REAR PANEL



Main Screen Layout





Recording icon



Event (Motion / Alarm)



Overwrite



Video loss



Motion



Keypad lock *111111 is the default password



Alarm

Mouse Control



 Screen display 	1. With the mouse pointer on the desired camera in a
	multi-camera screen, double-click the left mouse button
	to full screen that particular camera
	2. Double-click the left button on a full screen camera to
	return to multi-camera screen
 Menu display 	1. Single-click the right button to go to the menu OSD
	2. Right-click in Menu to go to last OSD page displayed
	(OSD = On Screen Display)
• To Select	1. Left-click on a specific menu item
	2. Left-click on the value of item
	3. Left-click on Exit to quit and save menu
	4. Drag mouse from upper right corner to lower left corner
	of a specific area on each camera to set the motion
	detect area.

Operation With Front Panel Buttons:

MENU BUTTON	: Press the MENU button to enter menu setup or to exit
ESC BUTTON	: Press the ESC button to exit menu
ENTER BUTTON	: Press the Enter button to confirm set or change a value
DIRECTION BUTTON	I : Select MENU items by using the Up and Down buttons
+ BUTTON	: Use this button to increase item values
- BUTTON	: Use this button to decrease item values in menus
BACKUP	: Use this button to enter backup mode in menus

Operation with Remote Controller: (Optional)

The keys on the remote controller have the same functions as those on the DVR front.



1-Camera Settings

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4	Record Set Alarm Detection Motion Detection Screen Audio Set				Display Title Brightness Contrast Hue		
	System Set Search Language Exit	English	i		Saturation		1477 - A
	(₄♥)MOVE (ENT)SEL	ECT (MENU)EXIT		(.▲♥)MOVE (ENT)S	ELECT (MENU)E	XIT

Select Camera Set from the Main Menu. Select the appropriate Channel (camera) and adjust the properties to provide the best video picture.

Main MENU – Camera Set – Title

The camera title setup function allows up to 5 characters to be entered to identify each video channel.



Enter the desired camera title and then select Enter to confirm the camera title.



2-Record Settings

Main Menu – Record Set



Record Set – *Schedule Record Frame rate



Record Set – *Motion Record Frame rate





*Each channel has its own frame rate adjustment for each recording mode.

Record Set - Record Quality: Choose from High / Normal / Low

Record Set - Event Rec Duration: Choose from 5 / 10 / 15 / 20 / 25 / 30 secs

Record Set - Auto Record: After 1 ~ 8 minutes (select) of no recording, auto recording will start.

Record Set - Data Retention Set: 1 ~ 15 days (select)

Record Set – Schedule Record



Within a 24 hour period, the user can adjust each channel's frame rate by record mode such as schedule, motion detection, and alarm record. Press the button to select different record modes or click the left mouse button.

3-Alarm Detection Settings

cal	Alarm Detection	Alarn Det	ection	15
	Alarm Duration Off Alarm POP UP Set Off Alarm Detection-1 Disable Alarm Detection-2 Disable Alarm Detection-3 Disable Alarm Detection-4 Disable	Alarm Duration Alarm POP UP Set Alarm Detection-1 Alarm Detection-2 Alarm Detection-3 Alarm Detection-4	05 Isec N/Open M/Close) Disable Disable	
	(A*)MOVE (ENT)SELECT (MENU)EXIT	(AT)MOVE (ENT)SELE	CT (MENU)EXIT	

Alarm Duration – Select off, # of seconds or continuous.

Alarm POP UP Setup – Set to off, # of seconds or continuous. When an alarm is triggered, the alarm symbols is displayed on the corresponding video channel and goes full screen or to quad screen if more than two alarms are triggered at the same time.

Alarm Detection - Each Alarm input can be defined as NO (Normally Open) or NC (Normally Closed). Main Menu -

4-Motion Detection Settings

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	Motion Are	ea			
1200					1910
12					
<u> </u>					
	(AT)MOVE	(ENT) SELE	ст (м	ENU)EXIT	

Channel – Select Channel (Camera)

Sensitivity – Select motion detection sensitivity – off, 1, 2 or 3

Motion Duration - Select length of time for motion duration to record/alarm - off, # seconds or continuous

Motion area selection

To set using the mouse: Select the start point (upper right corner) and drag to end point (lower left corner) of desired motion detection area. One-click of the left mouse button will cancel the detection area

Using the front panel: Use the direction buttons to select the desired motion detection area. Pressing the ENTER button will cancel the detection area.



5-Screen Settings



Border - Toggles the white border between camera displays on and off (see picture).

Video Adjustment - Adjust the video display screen position movement

Using the arrow keys on the front of DVR, adjust the overall screen image (up, down or sideways) as required.

VGA Frequency and VGA

Choose between either 60 or 75Hz VGA frequency and VGA screen resolution of 640x480 or higher. After adjustments have been made, press ENTER to save changes or press ESC to cancel. If the user does not make any changes, the settings will revert back to the previous settings after 15 seconds. ***Note:** The DVR will need to be rebooted if 1280x1024 resolution is selected.

6-Audio Settings



Audio Record - turn on or off as required with left mouse click or Enter button

Mute - must be off to record or playback audio

Input Volume – adjust slide switch with mouse or Enter button to adjust volume of audio being recorded

Output Volume – adjust slide switch with mouse or Enter button to adjust volume of audio being played back

7-Security Protection Settings (Main Menu – System Setup – Security Protection)

The default password is 111111. To change the password:

- 1 Select "Security Protection" from the "System Setup" menu and then select "Password Change"
- 2 Enter the current password followed by "Enter"
- 3 Enter the new password followed by "Enter"
- 4 Confirm (re-enter) the new password followed by "Enter"

Menu Protection - Set to "On" to only allow menus to be accessible by first entering the system password.

This is an excellent way to prevent unauthorized people from changing or deleting recordings

Auto Key Lock - Set to "Off" or for a length of time from 1 to 60 seconds. When a time is set, the system is locked to all commands and choices within the time set, after selection or booting and can only be unlocked by entering the password using the keys on the front of the system. It is advisable to leave this command set to "Off" until the user is very familiar with the system controls.

8-Time Setup (Main Menu – System Setup – Time Setup)



Time Zone – Select time zone by left clicking on the displayed time zone until the correct one is displayed.

Time Setup – Select Year/Month/Day and Hour/Min/Sec. by left-clicking with the mouse on each number displayed and then clicking the up/down arrows that appear under each digit, until the correct digits are selected.

Daylight Saving Time - Select Yes or No

Sync. From NTP Server – Select "Yes" if time is to be synchronization with an NTP server. A Network connection is required to use NTP server. NTP server does not work under network DHCP mode.

NTP Server IP – Enter NTP server's IP Address

<u>9-Dwell Time Setup</u> (Main Menu – System Set – Dwell Time Setup)



Dwell time is the number of seconds each camera image remains on the screen before switching to the next when the DVR is in single camera mode and Dwell Time is enabled.

Enable – set to Yes or No Dwell Time Setting – Set to a number of seconds

<u>10-Network Settings</u> (Main Menu – System Setup – Network Settings)



Enable: Set to "Yes" to enable LAN or Internet access

Local IP: click to select

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IP Ga Ne	Type Address teway t Mask	[STATIC] 192.168.192.150 192.168.192.254 255.255.255.0	4
<u>رم</u>)MOVE (ENT)	SELECT (MENU)EXIT	

IP Type: Static (IP is manually assigned) Select Static if you have a Static IP Address Enter values for IP Address, Gateway and Net Mask as supplied by your Internet Service Provider (ISP) IP Type: DHCP (IP is assigned by DHCP) IP Address, Gateway and Net Mask will be auto-detected IP Type: PPPOE (When SE is connected directly to the DSL modem) PPPOE ID and PPPOE Password: Enter values provided by ISP

*Note: When using PPPOE, input PPPoE ID (account) and password and then save & exit menu. Re-enter Network Settings again, and if the IP address appears, then all firewall and authority management is correct.

<u>11-DNS/DDNS Setup</u> (Main Menu – System Setup – Network Settings – DNS/DDNS Setup)

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	Password Name Server		11111	11		
	Video Quality		The H	h		
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		10				

Using the DynDNS service (<u>www.dyndns.com</u>), the SE Series DVR can be connected over the internet using a dynamic IP address. Start by creating an account with DynDNS by visiting <u>www.dyndns.com</u> and obtaining a free account and host name as described below:

1) Click Create Account

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-	Copyright @ 1999-2006 <u>Dvrnamic Netwr</u>	vrk. Services, Inc Privacy Policy - Acceptable Use Policy -	Trademark Notices	

2) Fill in all the personal information, password and email information. Go to your email

account to receive your new account info. Return to the DynDNS website; click Account and login.

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🎯 Dyn	DNS	0					Logged In My Services - My (User: SERVERCV1000 Cart - Settings - Log Out
		About	Services	Account	Support	News		
		P	revent your hosts fr	rom expiring, Consic	ler an <u>Account Upgrad</u>	2.		
ly Account	Acc	ount l e	vel Servio	ces				
Ay Services								
Account Upgrades		Paid Account (?)			No	Technical Support		
MailHop Outbound Recursive DNS		Account Upgrades (?)			No	View - Add		
SLA		MailHop Outbound (?))	None	View - Add		
Premier Support My Zones		Recursive DNS (?)			None	Add Recursive DNS		
Add Zone Services		DNS Serv	ice Level Agreeme	nt (<u>?</u>)	None	Add DNS Service Level Agreement		
My Hosts Add Host Services		Premie	r Support Option	(?)	None Available	Add Premier Support Cases		
Renew Services Auto Renew Settings								
Sync Expirations	Zon	e Level	Services					Add Zone Service
Account Settings								
Billing	No zone	level service iten	ns registered: <u>Add Z</u>	one Services				
vly Cart	Hos	t Level	Services					Add Host Service
items		Host		DNS Service	WebHop	Network Mo	nitoring	SSL Cert
items		1000 dundar		Chattle DATO				

5) Click "Add Host Service"

6) Select "Add Dynamic DNS Host"

W 🕘 https://www.dyndns	.com/abcount/services/hosts/add.html					<u></u>	C
🎯 Dyn	DNS					Logged In User: SERVERCV10 My Services - My Cart - Settings - Log C)O Xut
	About	Services	Account	Support	News		
	Pre	vent your hosts fro	om expiring, Consider	an <u>Account Ur</u>	ograde.		
My Account	Add Host Se	rvices					-
My Services							
Account Upgrades MailHop Outbound Recursive DNS SLA Premier Support	DNS Services — Dynamic DNS Add Dynamic DNS Host		More Info	Add	Static DNS	More Ini	<u>v</u>
My Zones Add Zone Services My Hosts Add Host Services Dynamic DNS Static DNS	WebHop Service WebHop Add WebHop	25	More Info	Add	MyWebHop — MyWebHop	More In	<u>io</u>
MyWebHop Network Monitoring	Network Service	es					
SSL Certificates Renew Services Auto Renew Settings Sync Expirations	Network Mon Add Network Monitoring	itoring ——	More Info				
Account Settings	SSL Certificates						
Billing	Add SSL Certificate	es —	More Info				

7) Enter a hostname of your choice and click "Add Host".

C DynD	neccount/services/hosts/dyndns/s	dd.hbnl				Logged In User: cv1000cv1000 My Services - My Cart - Settings - Log Out
	About	Services	Account	Support	News	
y Account	New Dynar	nic DNS ^{SN}	^M Host			
ly Services	nen byna		mose			
Account Upgrades	Hostn	ame:	df6020	, dyndn	s.org	~
MailHop Outbound	IP Add	Iress:	210.66.151.43			
SLA	Enable W	ildcard:				
Premier Support	Mail Exchange	r (optional):		Rad	aun MV2	
My Zones Add Zone Services My Hosts Add Host Services Dynamic DNS Static DNS WebHop MyWebHop Network Monitoring SSL Certificates Renew Services Auto Renew Settings Sync Expirations Account Settings Billing My Cart			df6020			Add Host

For Example: We've created df6020 as a new host name. After a new host name is added, the DynDNS page will show a confirming message page (see below).

D) A http://www.doodae.c	com/account/service=/host	s/dymdus/add_html				▼ ■ 移至 連結 ≫ ●
O Dyn	DNS					Logged In User: cv1000cv1000 My Services - My Cart - Settings - Log Out
	Abo	out Services	Account	Support	News	· · · · · · · · · · · · · · · · · · ·
ly Account	Hostna	me Created				Dynamic DNS Home
Mv Services						
Account Upgrades MailHop Outbound	The hostname y	rou have requested has be	en created. The info	ormation now in the databa	ise and DNS s	ystem is:
Recursive DNS		Hostname:		df6020.dyndns.org		
Premier Support		IP Address:		210.66.151.43		
My Zones	Wildcard:			N		
Add Zone Services		Mail Exchanger	:	None		
My Hosts Add Host Services Dynamic DNS Static DNS WebHop Ny WebHop Network Monitoring SSL Certificates Renew Services Auto Renew Settings Sync Expirations		Backup MX:		Ν		
Billing						
My Cart	0					

8) When the Host Name, username and password have been setup on the DDNS server, enter this information into the DNS/DDNS Setup screen:



Enable: YES DNS Server: [Obtain from your ISP] DDNS Server: DynDNS. HOST Name: Insert host name User Name: Insert DynDNS username Password: Insert DynDNS password

From a PC connected top the Internet, open a browser and enter the hostname (for example: http://df6020.dyndns.org) to access the DVR remotely.

12-RS-485 Setup (Main Menu – System Setup – RS-485)

This screen sets the RS-485 parameters used to control Pan, Tilt and Zoom (PTZ) cameras. From this screen, you can set the baud rat, number of data bits, odd or even parity and the stop bit according to the information provided with your PTZ camera.



<u>13-PTZ Camera Setup</u> (Main Menu – System Setup – Pan/Tilt Device)



From the Pan/Tilt Device setup screen, the channel, ID and Model of PTZ can be setup. PTZ cameras can be controlled using a combination of the front buttons and the mouse:

- Press ESC to enter PTZ mode
- Press the AUTO button and then left-click the mouse to control PTZ movement
- Press the quad button + numbers 1 ~ 4 to set presets
- Press the AUTO button + 1 ~ 4 to call presets
- Press AUTO to start the preset tour
- Press AUTO again to cancel

14-Video Search and Playback

From the Main Menu, select Search. The Search function is used to search, find and play recordings by Time or Event. Select Time List, Event List or Time Search and follow the corresponding instructions below.



Time List: Selecting Time List displays a list of continuous or scheduled recordings separated in one hour segments. Select a recording using the mouse or arrow keys and click/press enter to playback the corresponding recording.

-18		14%	07/06/06	21:14:56
	NUMBER 003 07/06 002 07/06 001 07/06	Event START /06 21:1 /06 21:1 /05 14:4	LİST TIME 3:08 MOTION 0:32 ALARM 2:38 MANUAL	
	START : 0 END : 0	7/06/06 7/06/06	21:13:08 21:13:10	
	•	PAGE (0	1/01) 🕨	

Event List: Selecting Event List displays a list of recordings by both time segment and type of event – Motion, Alarm or Manual. Select a recording using the mouse or arrow keys and click/press enter to playback the corresponding recording.

Time Search: Selecting Time Search allows the Start and End times of a recording to be defined by date and time, and the resulting recordings played back. Follow the instructions below to perform a Time Search:

Press ENTER/Click to select date and time. Use the left and right buttons to select an item, press the ENTER button and use the + / - buttons to change the corresponding value.



After the required date and time have been entered, move the selection to the Search button (bottom left of the screen) and then press ENTER/Click to start playback.



Forward play speed can be increased: x 2 / x 3 / x 4 using the right arrow button Reverse play speed can be increased: x 8 / x 16 / x 32 using the left arrow button

15-Video Backup

Video can be backed up to a USB thumb drive or via the Internet/LAN using the supplied client software. The instructions below describe the process of backing video up to a USB thumb drive. In general, from any of the playback options, pressing the backup button on the front of the DVR will initiate the backup process.

Backup From Live Display

1) Press the backup button on the front of the DVR.





3) After the "Reading USB Disk" message disappears, the backup information will be displayed on screen and the user now can press the Backup button to start the file backup process. When the backup is complete, press the menu button to exit the USB backup screen and return to live video mode.



Backup From Playback Screen

1) Press the play button to start playback. The playback beginning time will be the last full hour recorded.

Press the + and – buttons to toggle the Start and End backup times.

2) Press the backup button

3) After the "Reading USB Disk" message disappears, the backup information will be displayed on screen and the user now can press the Backup button to start the file backup process. When the backup is complete, press the menu button to exit the USB backup screen and return to live video mode.

16-Remote Client Software

The Net Viewer (Client) Software can be used to connect to the SE DVR remotely. It is a powerful tool and easy-to-use tool that can be used to modify setup and configuration settings, view live vide and playback and download video recordings.



Viewer function:

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

DVR control via Viewer:

- 4. DVR screen display: Quad, Camera 1 ~ 4 full screen / Key lock / Channel auto sequence.
- 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)

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

- 7. DVR menu display
- 8. Audio volume (PC site)

Viewer configuration:

NetWork Viewer v1.0			
	≠ 14%	07/06/15 13:51:20 ●◆#	2)
	Player ✓ NetViewer Disconnect Dvr Control		
СН1 СН3 Ф+ж	Audio Local Recording Always On Top Full Sgreen Maximize Aspect Ratio	2 4 ••	
	Options <u>A</u> bout Viewer F1 Exit Alt+F4		5
Ø connected			
	A LOCK AUTO TSBH		//

Right-click with the mouse to bring up the main NetViewer menu (shown above)

Player-- Switch to backup file play modeNet View-- Switch to DVR network viewerDisconnect-- Network log out and connect canceledDVR Control-- DVR function controlAudio-- Audio volume adjust (PC site)Local Recording-- Viewing image recordAlways On Top-- Player or viewer always on top even if other data folders are openFull Screen-- Viewer change to full screenMaximize-- Full screen displayAspect Ratio-- Resolution 640 x 448 / 640 x 544 adjustOptions-- Viewer function setup-- Always on Top: Player or viewer always on top even if other data folders are open-- Always on Top: Player or viewer always on top even if other data folders are open

-- Path for local recording: Please select a path of your PC.

About Viewer-- Viewer version

Exit-- Close viewer

File Player (Remote):



Click here to open the desired video file



Player buttons -

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

Player Configuration:

1 2007/06/15 P	M 03:32:14	122%		07/06/15	15:32:02)
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	Open File Open <u>D</u> isk	F2			
	Export Close	F4			
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н3 Фа	Playback <u>A</u> udio	*	CH	4	W
	Full S <u>c</u> reen <u>M</u> aximize As <u>p</u> ect Ratio	•			
	O <u>p</u> tions <u>A</u> bout Viewer	F1	14. B.		191 AL
	Exit	Alt+F4	R.E.		4,241 3 3
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Right-click with the mouse to bring up the main NetViewer menu (shown above)

Player--Switch to backup file play mode

Netviewer-- Switch to DVR network viewer

Open File-- Open the backup file which saved in any path

Export-- Backup file to AVI file format (Video + Audio). See AVI page below

Close-- Player Button control disable

Show time-- Show the backup beginning time

Always on Top-- Player always on top even if other data folders opened

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 screen

Aspect Ratio-- Player resolution adjust

Options-- See Next page

About viewer-- Version of viewer

Exit-- Player and viewer exit

SE Series DVR Manual

Options

C:\Doc	uments and Settings\MAXCHEN\My Documents\我的視訊\20070615-153204.VVF	
Player	Viewer Viewer	
CH1 2007/0	06/15/15/32/10	59)
也 全部	General	14
100	Always on top (A)	
	I Show time ⊕	
СНТ	On screen display date/time format	
СНЗ	%Y/%m/%d %H:%M:%S 2007/06/15 16:42:54	00
0 4 P		
	Path for still capture	
	C:\Capture Browse	
f te P		
	OK Cancel	
PLAY	x 1.0 2007/06/15 15:32:10	•
		11

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

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



On Screen display date/time (Show time) format: Please select the date format desired:

%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 %l:%M:%S %Y:	JUN 15 PM 03:32:29 2007

VVF file export to AVI



Users please wait until file export completed.

Specifications

Model	4, 8 or 16 CH DVR
Input	4, 8 or 16 CH Inputs 1.0Vp-p, 75ohm unbalanced (BNC Type)
Output	VGA and composite (BNC type)
Horizontal Resolution	640x480 (NTSC)
S/N Ratio	Better than 40dB
Color	6.7 Million
Monitoring Method	
Sequence Display	Available
	Full: 640(H)x 480(V) Active Pixels(NTSC);
Screen Quality	Quad Screen: 320(H) x 240(V) Active Pixels(NTSC);
Display Rate	Real-Time (30fps/channel)
Recording/ Play Funct	ion
Recording (Max) NTSC	4/8 - Max 60 fps(NTSC); 16 - Max 120 fps(NTSC)
Recording Resolution	4/8 - 720x240(NTSC); 16 - 720x240, 320x240(NTSC)
Recording 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 per camera for every channel
Alarm	Alarm in x 4 / Relay out x 1
Back-Up	USB 1.1/2.0 memory and network remote backup
Storage	HDD x2 (max:1TB)
Audio Input	RCA x 1
Audio Output	RCA x 1
HDD Record Mode	Full stop / overwrite
Remote Backup	Through client application
PTZ Control	PELCO-D, PELCO-P, MERIT LI-LIN
Key Lock	Yes
Dwell Time	Programmable with adjustable dwell time. 0 ~ 999 seconds
Real Time clock (RTC)	Support NTP (Network Time Protocol)
Remote Control	Support PHILIPS RC5, NEC

Network Function

Ethernet	10 /100 Base-T	
Network Connection	TCP/IP, PPPoE, DHCP, DDNS	
Client Application	Display/playback/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	ı
Operating Temperature	41 °F~104 °F (5 °C~+40 °C)	
Operating Humidity	Less than 90%	